



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

January 6, 2024

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

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

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 2023 sampling event at the Hennepin Power Plant East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-05. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS.

Sincerely,

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, 2023, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois

**35 I.A.C. § 845.610(B)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2023
EAST ASH POND, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS**

January 6, 2024

Samples were collected on August 23, August 24, and August 28, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 7, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 sampling event. Groundwater elevation data was inadvertently not recorded during this sampling event at location XSG01.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 3, 2023 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

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

TABLES

- Table 1 Field Parameters and Analytical Results - Quarter 3, 2023
- Table 2 Comparison of Statistical Results to GWPS - Quarter 3, 2023

FIGURES

- Figure 1 Monitoring Well Location Map

ATTACHMENTS

- Attachment A Groundwater Elevation Data - Quarter 3, 2023
- Attachment B Laboratory Reports and Field Data Sheets - Quarter 3, 2023
- Attachment C Comparison of Statistical Results to Background - Quarter 3, 2023

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

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E002	08/24/2023	Antimony, total	0.0013 U	mg/L
07	Background	E002	08/24/2023	Arsenic, total	0.001 UJ	mg/L
07	Background	E002	08/24/2023	Barium, total	0.120	mg/L
07	Background	E002	08/24/2023	Beryllium, total	0.00053 U	mg/L
07	Background	E002	08/24/2023	Boron, total	0.0670	mg/L
07	Background	E002	08/24/2023	Cadmium, total	0.00017 U	mg/L
07	Background	E002	08/24/2023	Calcium, total	94.0	mg/L
07	Background	E002	08/24/2023	Chloride, total	51.0	mg/L
07	Background	E002	08/24/2023	Chromium, total	0.0011 U	mg/L
07	Background	E002	08/24/2023	Cobalt, total	0.0360	mg/L
07	Background	E002	08/24/2023	Dissolved Oxygen	4.15	mg/L
07	Background	E002	08/24/2023	Fluoride, total	0.24 J	mg/L
07	Background	E002	08/24/2023	Lead, total	0.00019 U	mg/L
07	Background	E002	08/24/2023	Lithium, total	0.00990	mg/L
07	Background	E002	08/24/2023	Mercury, total	0.000079 U	mg/L
07	Background	E002	08/24/2023	Molybdenum, total	0.0025 U	mg/L
07	Background	E002	08/24/2023	Oxidation Reduction Potential	180	mV
07	Background	E002	08/24/2023	pH (field)	6.9	SU
07	Background	E002	08/24/2023	Radium 226 + Radium 228, total	0.647	pCi/L
07	Background	E002	08/24/2023	Selenium, total	0.00098 U	mg/L
07	Background	E002	08/24/2023	Specific Conductance @ 25C (field)	699	micromhos/cm
07	Background	E002	08/24/2023	Sulfate, total	67.0	mg/L
07	Background	E002	08/24/2023	Temperature	13.8	degrees C
07	Background	E002	08/24/2023	Thallium, total	0.00057 U	mg/L
07	Background	E002	08/24/2023	Total Dissolved Solids	640	mg/L
07	Background	E002	08/24/2023	Turbidity, field	3.55	NTU
08	Background	E002	08/24/2023	Antimony, total	0.0013 U	mg/L
08	Background	E002	08/24/2023	Arsenic, total	0.001 UJ	mg/L
08	Background	E002	08/24/2023	Barium, total	0.120	mg/L
08	Background	E002	08/24/2023	Beryllium, total	0.00053 U	mg/L
08	Background	E002	08/24/2023	Boron, total	0.0700	mg/L
08	Background	E002	08/24/2023	Cadmium, total	0.0005 UJ	mg/L
08	Background	E002	08/24/2023	Calcium, total	160	mg/L
08	Background	E002	08/24/2023	Chloride, total	240	mg/L
08	Background	E002	08/24/2023	Chromium, total	0.0011 U	mg/L
08	Background	E002	08/24/2023	Cobalt, total	0.00360	mg/L
08	Background	E002	08/24/2023	Dissolved Oxygen	1.16	mg/L
08	Background	E002	08/24/2023	Fluoride, total	0.19 J	mg/L
08	Background	E002	08/24/2023	Lead, total	0.0005 UJ	mg/L
08	Background	E002	08/24/2023	Lithium, total	0.0140	mg/L
08	Background	E002	08/24/2023	Mercury, total	0.000079 U	mg/L
08	Background	E002	08/24/2023	Molybdenum, total	0.0025 U	mg/L
08	Background	E002	08/24/2023	Oxidation Reduction Potential	189	mV
08	Background	E002	08/24/2023	pH (field)	6.7	SU
08	Background	E002	08/24/2023	Radium 226 + Radium 228, total	0.572	pCi/L
08	Background	E002	08/24/2023	Selenium, total	0.00098 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E002	08/24/2023	Specific Conductance @ 25C (field)	1,241	micromhos/cm
08	Background	E002	08/24/2023	Sulfate, total	100	mg/L
08	Background	E002	08/24/2023	Temperature	14.7	degrees C
08	Background	E002	08/24/2023	Thallium, total	0.00057 U	mg/L
08	Background	E002	08/24/2023	Total Dissolved Solids	1,100	mg/L
08	Background	E002	08/24/2023	Turbidity, field	3.49	NTU
08D	Background	E002	08/24/2023	Antimony, total	0.0013 U	mg/L
08D	Background	E002	08/24/2023	Arsenic, total	0.00110 J+	mg/L
08D	Background	E002	08/24/2023	Barium, total	0.120	mg/L
08D	Background	E002	08/24/2023	Beryllium, total	0.00053 U	mg/L
08D	Background	E002	08/24/2023	Boron, total	0.0510	mg/L
08D	Background	E002	08/24/2023	Cadmium, total	0.0005 UJ	mg/L
08D	Background	E002	08/24/2023	Calcium, total	200	mg/L
08D	Background	E002	08/24/2023	Chloride, total	310	mg/L
08D	Background	E002	08/24/2023	Chromium, total	0.0011 U	mg/L
08D	Background	E002	08/24/2023	Cobalt, total	0.00320	mg/L
08D	Background	E002	08/24/2023	Dissolved Oxygen	0.630	mg/L
08D	Background	E002	08/24/2023	Fluoride, total	0.19 U	mg/L
08D	Background	E002	08/24/2023	Lead, total	0.0005 UJ	mg/L
08D	Background	E002	08/24/2023	Lithium, total	0.0140	mg/L
08D	Background	E002	08/24/2023	Mercury, total	0.000079 U	mg/L
08D	Background	E002	08/24/2023	Molybdenum, total	0.0025 U	mg/L
08D	Background	E002	08/24/2023	Oxidation Reduction Potential	192	mV
08D	Background	E002	08/24/2023	pH (field)	6.6	SU
08D	Background	E002	08/24/2023	Radium 226 + Radium 228, total	0.573	pCi/L
08D	Background	E002	08/24/2023	Selenium, total	0.00098 U	mg/L
08D	Background	E002	08/24/2023	Specific Conductance @ 25C (field)	1,435	micromhos/cm
08D	Background	E002	08/24/2023	Sulfate, total	170	mg/L
08D	Background	E002	08/24/2023	Temperature	17.3	degrees C
08D	Background	E002	08/24/2023	Thallium, total	0.00057 U	mg/L
08D	Background	E002	08/24/2023	Total Dissolved Solids	1,400	mg/L
08D	Background	E002	08/24/2023	Turbidity, field	4.32	NTU
16	Background	E002	08/28/2023	Antimony, total	0.0013 U	mg/L
16	Background	E002	08/28/2023	Arsenic, total	0.001 UJ	mg/L
16	Background	E002	08/28/2023	Barium, total	0.0770	mg/L
16	Background	E002	08/28/2023	Beryllium, total	0.00053 U	mg/L
16	Background	E002	08/28/2023	Boron, total	0.110	mg/L
16	Background	E002	08/28/2023	Cadmium, total	0.00017 U	mg/L
16	Background	E002	08/28/2023	Calcium, total	73.0	mg/L
16	Background	E002	08/28/2023	Chloride, total	81.0	mg/L
16	Background	E002	08/28/2023	Chromium, total	0.0011 U	mg/L
16	Background	E002	08/28/2023	Cobalt, total	0.0004 U	mg/L
16	Background	E002	08/28/2023	Dissolved Oxygen	0.370	mg/L
16	Background	E002	08/28/2023	Fluoride, total	0.31 J	mg/L
16	Background	E002	08/28/2023	Lead, total	0.00019 U	mg/L
16	Background	E002	08/28/2023	Lithium, total	0.00760	mg/L

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 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E002	08/28/2023	Mercury, total	0.0002 UJ	mg/L
16	Background	E002	08/28/2023	Molybdenum, total	0.0100	mg/L
16	Background	E002	08/28/2023	Oxidation Reduction Potential	123	mV
16	Background	E002	08/28/2023	pH (field)	7.2	SU
16	Background	E002	08/28/2023	Radium 226 + Radium 228, total	0.522	pCi/L
16	Background	E002	08/28/2023	Selenium, total	0.00098 U	mg/L
16	Background	E002	08/28/2023	Specific Conductance @ 25C (field)	556	micromhos/cm
16	Background	E002	08/28/2023	Sulfate, total	56.0	mg/L
16	Background	E002	08/28/2023	Temperature	22.8	degrees C
16	Background	E002	08/28/2023	Thallium, total	0.00057 U	mg/L
16	Background	E002	08/28/2023	Total Dissolved Solids	450	mg/L
16	Background	E002	08/28/2023	Turbidity, field	3.99	NTU
17	Background	E002	08/28/2023	Antimony, total	0.0013 U	mg/L
17	Background	E002	08/28/2023	Arsenic, total	0.00057 J	mg/L
17	Background	E002	08/28/2023	Barium, total	0.0720	mg/L
17	Background	E002	08/28/2023	Beryllium, total	0.00053 U	mg/L
17	Background	E002	08/28/2023	Boron, total	0.0760	mg/L
17	Background	E002	08/28/2023	Cadmium, total	0.00017 U	mg/L
17	Background	E002	08/28/2023	Calcium, total	58.0	mg/L
17	Background	E002	08/28/2023	Chloride, total	80.0	mg/L
17	Background	E002	08/28/2023	Chromium, total	0.0011 U	mg/L
17	Background	E002	08/28/2023	Cobalt, total	0.0004 U	mg/L
17	Background	E002	08/28/2023	Dissolved Oxygen	5.76	mg/L
17	Background	E002	08/28/2023	Fluoride, total	0.36 J	mg/L
17	Background	E002	08/28/2023	Lead, total	0.00019 U	mg/L
17	Background	E002	08/28/2023	Lithium, total	0.00640	mg/L
17	Background	E002	08/28/2023	Mercury, total	0.0002 UJ	mg/L
17	Background	E002	08/28/2023	Molybdenum, total	0.00710	mg/L
17	Background	E002	08/28/2023	Oxidation Reduction Potential	148	mV
17	Background	E002	08/28/2023	pH (field)	7.3	SU
17	Background	E002	08/28/2023	Radium 226 + Radium 228, total	0.574	pCi/L
17	Background	E002	08/28/2023	Selenium, total	0.00098 U	mg/L
17	Background	E002	08/28/2023	Specific Conductance @ 25C (field)	506	micromhos/cm
17	Background	E002	08/28/2023	Sulfate, total	58.0	mg/L
17	Background	E002	08/28/2023	Temperature	22.4	degrees C
17	Background	E002	08/28/2023	Thallium, total	0.00057 U	mg/L
17	Background	E002	08/28/2023	Total Dissolved Solids	420	mg/L
17	Background	E002	08/28/2023	Turbidity, field	4.02	NTU
12	Compliance	E002	08/23/2023	Antimony, total	0.0013 U	mg/L
12	Compliance	E002	08/23/2023	Arsenic, total	0.00051 J	mg/L
12	Compliance	E002	08/23/2023	Barium, total	0.0600	mg/L
12	Compliance	E002	08/23/2023	Beryllium, total	0.00053 U	mg/L
12	Compliance	E002	08/23/2023	Boron, total	0.100	mg/L
12	Compliance	E002	08/23/2023	Cadmium, total	0.00017 U	mg/L
12	Compliance	E002	08/23/2023	Calcium, total	73.0	mg/L
12	Compliance	E002	08/23/2023	Chloride, total	83.0	mg/L

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 EAST ASH POND
 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E002	08/23/2023	Chromium, total	0.0011 U	mg/L
12	Compliance	E002	08/23/2023	Cobalt, total	0.0004 U	mg/L
12	Compliance	E002	08/23/2023	Dissolved Oxygen	1.88	mg/L
12	Compliance	E002	08/23/2023	Fluoride, total	0.3 J	mg/L
12	Compliance	E002	08/23/2023	Lead, total	0.00019 U	mg/L
12	Compliance	E002	08/23/2023	Lithium, total	0.00930	mg/L
12	Compliance	E002	08/23/2023	Mercury, total	0.000079 U	mg/L
12	Compliance	E002	08/23/2023	Molybdenum, total	0.0170	mg/L
12	Compliance	E002	08/23/2023	Oxidation Reduction Potential	154	mV
12	Compliance	E002	08/23/2023	pH (field)	7.3	SU
12	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	0.743	pCi/L
12	Compliance	E002	08/23/2023	Selenium, total	0.00098 U	mg/L
12	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	558	micromhos/cm
12	Compliance	E002	08/23/2023	Sulfate, total	65.0	mg/L
12	Compliance	E002	08/23/2023	Temperature	19.5	degrees C
12	Compliance	E002	08/23/2023	Thallium, total	0.00057 U	mg/L
12	Compliance	E002	08/23/2023	Total Dissolved Solids	500	mg/L
12	Compliance	E002	08/23/2023	Turbidity, field	3.00	NTU
13	Compliance	E002	08/23/2023	Antimony, total	0.0013 U	mg/L
13	Compliance	E002	08/23/2023	Arsenic, total	0.00067 J	mg/L
13	Compliance	E002	08/23/2023	Barium, total	0.0440	mg/L
13	Compliance	E002	08/23/2023	Beryllium, total	0.00053 U	mg/L
13	Compliance	E002	08/23/2023	Boron, total	0.130	mg/L
13	Compliance	E002	08/23/2023	Cadmium, total	0.00017 U	mg/L
13	Compliance	E002	08/23/2023	Calcium, total	75.0	mg/L
13	Compliance	E002	08/23/2023	Chloride, total	81.0	mg/L
13	Compliance	E002	08/23/2023	Chromium, total	0.0011 U	mg/L
13	Compliance	E002	08/23/2023	Cobalt, total	0.0004 U	mg/L
13	Compliance	E002	08/23/2023	Dissolved Oxygen	2.10	mg/L
13	Compliance	E002	08/23/2023	Fluoride, total	0.27 J	mg/L
13	Compliance	E002	08/23/2023	Lead, total	0.00019 U	mg/L
13	Compliance	E002	08/23/2023	Lithium, total	0.0110	mg/L
13	Compliance	E002	08/23/2023	Mercury, total	0.000079 U	mg/L
13	Compliance	E002	08/23/2023	Molybdenum, total	0.0130	mg/L
13	Compliance	E002	08/23/2023	Oxidation Reduction Potential	150	mV
13	Compliance	E002	08/23/2023	pH (field)	7.4	SU
13	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	0.643	pCi/L
13	Compliance	E002	08/23/2023	Selenium, total	0.00098 U	mg/L
13	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	563	micromhos/cm
13	Compliance	E002	08/23/2023	Sulfate, total	68.0	mg/L
13	Compliance	E002	08/23/2023	Temperature	21.4	degrees C
13	Compliance	E002	08/23/2023	Thallium, total	0.00057 U	mg/L
13	Compliance	E002	08/23/2023	Total Dissolved Solids	480	mg/L
13	Compliance	E002	08/23/2023	Turbidity, field	3.05	NTU
46	Compliance	E002	08/23/2023	Antimony, total	0.0013 U	mg/L
46	Compliance	E002	08/23/2023	Arsenic, total	0.00051 J	mg/L

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 HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E002	08/23/2023	Barium, total	0.0650	mg/L
46	Compliance	E002	08/23/2023	Beryllium, total	0.00053 U	mg/L
46	Compliance	E002	08/23/2023	Boron, total	0.110	mg/L
46	Compliance	E002	08/23/2023	Cadmium, total	0.00017 U	mg/L
46	Compliance	E002	08/23/2023	Calcium, total	74.0	mg/L
46	Compliance	E002	08/23/2023	Chloride, total	84.0	mg/L
46	Compliance	E002	08/23/2023	Chromium, total	0.0011 U	mg/L
46	Compliance	E002	08/23/2023	Cobalt, total	0.0004 U	mg/L
46	Compliance	E002	08/23/2023	Dissolved Oxygen	1.85	mg/L
46	Compliance	E002	08/23/2023	Fluoride, total	0.31 J	mg/L
46	Compliance	E002	08/23/2023	Lead, total	0.00019 U	mg/L
46	Compliance	E002	08/23/2023	Lithium, total	0.00870	mg/L
46	Compliance	E002	08/23/2023	Mercury, total	0.000079 U	mg/L
46	Compliance	E002	08/23/2023	Molybdenum, total	0.0190	mg/L
46	Compliance	E002	08/23/2023	Oxidation Reduction Potential	142	mV
46	Compliance	E002	08/23/2023	pH (field)	7.3	SU
46	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	0.563	pCi/L
46	Compliance	E002	08/23/2023	Selenium, total	0.00098 U	mg/L
46	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	559	micromhos/cm
46	Compliance	E002	08/23/2023	Sulfate, total	87.0	mg/L
46	Compliance	E002	08/23/2023	Temperature	20.9	degrees C
46	Compliance	E002	08/23/2023	Thallium, total	0.00057 U	mg/L
46	Compliance	E002	08/23/2023	Total Dissolved Solids	460	mg/L
46	Compliance	E002	08/23/2023	Turbidity, field	19	NTU
47	Compliance	E002	08/23/2023	Antimony, total	0.0013 U	mg/L
47	Compliance	E002	08/23/2023	Arsenic, total	0.00048 J	mg/L
47	Compliance	E002	08/23/2023	Barium, total	0.0890	mg/L
47	Compliance	E002	08/23/2023	Beryllium, total	0.00053 U	mg/L
47	Compliance	E002	08/23/2023	Boron, total	0.470	mg/L
47	Compliance	E002	08/23/2023	Cadmium, total	0.00017 U	mg/L
47	Compliance	E002	08/23/2023	Calcium, total	89.0	mg/L
47	Compliance	E002	08/23/2023	Chloride, total	97.0	mg/L
47	Compliance	E002	08/23/2023	Chromium, total	0.0011 U	mg/L
47	Compliance	E002	08/23/2023	Cobalt, total	0.0004 U	mg/L
47	Compliance	E002	08/23/2023	Dissolved Oxygen	1.52	mg/L
47	Compliance	E002	08/23/2023	Fluoride, total	0.35 J	mg/L
47	Compliance	E002	08/23/2023	Lead, total	0.00019 U	mg/L
47	Compliance	E002	08/23/2023	Lithium, total	0.0110	mg/L
47	Compliance	E002	08/23/2023	Mercury, total	0.000079 U	mg/L
47	Compliance	E002	08/23/2023	Molybdenum, total	0.0260	mg/L
47	Compliance	E002	08/23/2023	Oxidation Reduction Potential	155	mV
47	Compliance	E002	08/23/2023	pH (field)	7.0	SU
47	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	0.578	pCi/L
47	Compliance	E002	08/23/2023	Selenium, total	0.00098 U	mg/L
47	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	639	micromhos/cm
47	Compliance	E002	08/23/2023	Sulfate, total	80.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E002	08/23/2023	Temperature	21.5	degrees C
47	Compliance	E002	08/23/2023	Thallium, total	0.00057 U	mg/L
47	Compliance	E002	08/23/2023	Total Dissolved Solids	520	mg/L
47	Compliance	E002	08/23/2023	Turbidity, field	3.20	NTU
52	Compliance	E002	08/24/2023	Antimony, total	0.0013 U	mg/L
52	Compliance	E002	08/24/2023	Arsenic, total	0.00053 J	mg/L
52	Compliance	E002	08/24/2023	Barium, total	0.0910	mg/L
52	Compliance	E002	08/24/2023	Beryllium, total	0.00053 U	mg/L
52	Compliance	E002	08/24/2023	Boron, total	0.160	mg/L
52	Compliance	E002	08/24/2023	Cadmium, total	0.00017 U	mg/L
52	Compliance	E002	08/24/2023	Calcium, total	85.0	mg/L
52	Compliance	E002	08/24/2023	Chloride, total	88.0	mg/L
52	Compliance	E002	08/24/2023	Chromium, total	0.0011 U	mg/L
52	Compliance	E002	08/24/2023	Cobalt, total	0.0004 U	mg/L
52	Compliance	E002	08/24/2023	Dissolved Oxygen	1.96	mg/L
52	Compliance	E002	08/24/2023	Fluoride, total	0.34 J	mg/L
52	Compliance	E002	08/24/2023	Lead, total	0.00019 U	mg/L
52	Compliance	E002	08/24/2023	Lithium, total	0.00960	mg/L
52	Compliance	E002	08/24/2023	Mercury, total	0.0002 UJ	mg/L
52	Compliance	E002	08/24/2023	Molybdenum, total	0.0130	mg/L
52	Compliance	E002	08/24/2023	Oxidation Reduction Potential	146	mV
52	Compliance	E002	08/24/2023	pH (field)	7.0	SU
52	Compliance	E002	08/24/2023	Radium 226 + Radium 228, total	0.616	pCi/L
52	Compliance	E002	08/24/2023	Selenium, total	0.00098 U	mg/L
52	Compliance	E002	08/24/2023	Specific Conductance @ 25C (field)	614	micromhos/cm
52	Compliance	E002	08/24/2023	Sulfate, total	62.0	mg/L
52	Compliance	E002	08/24/2023	Temperature	24.0	degrees C
52	Compliance	E002	08/24/2023	Thallium, total	0.00057 U	mg/L
52	Compliance	E002	08/24/2023	Total Dissolved Solids	520	mg/L
52	Compliance	E002	08/24/2023	Turbidity, field	4.08	NTU
54	Compliance	E002	08/23/2023	Antimony, total	0.0013 U	mg/L
54	Compliance	E002	08/23/2023	Arsenic, total	0.00059 J	mg/L
54	Compliance	E002	08/23/2023	Barium, total	0.0530	mg/L
54	Compliance	E002	08/23/2023	Beryllium, total	0.00053 U	mg/L
54	Compliance	E002	08/23/2023	Boron, total	0.230	mg/L
54	Compliance	E002	08/23/2023	Cadmium, total	0.00017 U	mg/L
54	Compliance	E002	08/23/2023	Calcium, total	77.0	mg/L
54	Compliance	E002	08/23/2023	Chloride, total	84.0	mg/L
54	Compliance	E002	08/23/2023	Chromium, total	0.0011 U	mg/L
54	Compliance	E002	08/23/2023	Cobalt, total	0.0004 U	mg/L
54	Compliance	E002	08/23/2023	Dissolved Oxygen	2.31	mg/L
54	Compliance	E002	08/23/2023	Fluoride, total	0.33 J	mg/L
54	Compliance	E002	08/23/2023	Lead, total	0.00019 U	mg/L
54	Compliance	E002	08/23/2023	Lithium, total	0.0110	mg/L
54	Compliance	E002	08/23/2023	Mercury, total	0.000079 U	mg/L
54	Compliance	E002	08/23/2023	Molybdenum, total	0.0300	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E002	08/23/2023	Oxidation Reduction Potential	141	mV
54	Compliance	E002	08/23/2023	pH (field)	7.3	SU
54	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	0.649	pCi/L
54	Compliance	E002	08/23/2023	Selenium, total	0.00098 U	mg/L
54	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	576	micromhos/cm
54	Compliance	E002	08/23/2023	Sulfate, total	85.0	mg/L
54	Compliance	E002	08/23/2023	Temperature	22.6	degrees C
54	Compliance	E002	08/23/2023	Thallium, total	0.00057 U	mg/L
54	Compliance	E002	08/23/2023	Total Dissolved Solids	510	mg/L
54	Compliance	E002	08/23/2023	Turbidity, field	13.8	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0514	2.0	Standard	No Exceedance
12	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	26	0	CB around T-S line	0.0751	2	Standard	No Exceedance
12	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	90	CI around median	0.001	0.005	Standard	No Exceedance
12	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	70.2	435	Background	No Exceedance
12	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	23	97	CB around T-S line	0.00148	0.1	Standard	No Exceedance
12	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	82	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.24	4.0	Standard	No Exceedance
12	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	22	4	CB around linear reg	0.00613	0.04	Standard	No Exceedance
12	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	0	CB around linear reg	0.012	0.1	Standard	No Exceedance
12	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	33	0	CB around linear reg	7.1/7.3	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.331	5	Standard	No Exceedance
12	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	25	56	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	63.8	400	Standard	No Exceedance
12	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	460	1,620	Background	No Exceedance
13	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	18	96	CI around median	0.001	0.006	Standard	No Exceedance
13	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0427	2.0	Standard	No Exceedance
13	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	0.589	2	Standard	No Exceedance
13	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	97	CI around median	0.001	0.005	Standard	No Exceedance
13	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	73.5	435	Background	No Exceedance

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	23	85	CB around T-S line	0.0015	0.1	Standard	No Exceedance
13	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	82	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	23	97	CI around median	0.001	0.0075	Standard	No Exceedance
13	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	0.0171	0.04	Standard	No Exceedance
13	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	28	CI around mean	0.015	0.1	Standard	No Exceedance
13	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	33	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.476	5	Standard	No Exceedance
13	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	25	42	CI around mean	0.00135	0.05	Standard	No Exceedance
13	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	77.2	400	Standard	No Exceedance
13	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	478	1,620	Background	No Exceedance
46	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0642	2.0	Standard	No Exceedance
46	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	0.197	2	Standard	No Exceedance
46	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	69.8	435	Background	No Exceedance
46	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	19	90	CB around T-S line	0.00149	0.1	Standard	No Exceedance
46	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CI around median	0.24	4.0	Standard	No Exceedance
46	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	21	5	CI around median	0.009	0.04	Standard	No Exceedance
46	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around T-S line	0.00879	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	22	0	CB around linear reg	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.295	5	Standard	No Exceedance
46	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	21	57	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	22	0	CI around geomean	62	400	Standard	No Exceedance
46	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	440	1,620	Background	No Exceedance
47	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	95	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.0777	2.0	Standard	No Exceedance
47	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	22	0	CI around geomean	0.206	2	Standard	No Exceedance
47	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	73.5	435	Background	No Exceedance
47	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	19	95	CB around T-S line	0.001	0.1	Standard	No Exceedance
47	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	80	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CB around T-S line	0.21	4.0	Standard	No Exceedance
47	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.0087	0.04	Standard	No Exceedance
47	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0132	0.1	Standard	No Exceedance
47	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	22	0	CI around mean	7.0/7.2	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.358	5	Standard	No Exceedance
47	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	20	90	CI around median	0.001	0.05	Standard	No Exceedance
47	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	63.5	400	Standard	No Exceedance
47	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	472	1,620	Background	No Exceedance
52	UA	E002	Antimony, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E002	Arsenic, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E002	Barium, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0704	2.0	Standard	No Exceedance
52	UA	E002	Beryllium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E002	Boron, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.126	2	Standard	No Exceedance
52	UA	E002	Cadmium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E002	Chloride, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	71.3	435	Background	No Exceedance
52	UA	E002	Chromium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E002	Cobalt, total	mg/L	02/24/21 - 08/24/23	11	91	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E002	Fluoride, total	mg/L	02/24/21 - 08/24/23	11	9	CI around geomean	0.27	4.0	Standard	No Exceedance
52	UA	E002	Lead, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E002	Lithium, total	mg/L	02/24/21 - 08/24/23	11	9	CI around mean	0.00532	0.04	Standard	No Exceedance
52	UA	E002	Mercury, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E002	Molybdenum, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0102	0.1	Standard	No Exceedance
52	UA	E002	pH (field)	SU	02/24/21 - 08/24/23	11	0	CI around mean	7.0/7.4	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/24/23	11	0	CI around mean	0.36	5	Standard	No Exceedance
52	UA	E002	Selenium, total	mg/L	02/24/21 - 08/24/23	11	91	CI around median	0.001	0.05	Standard	No Exceedance
52	UA	E002	Sulfate, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	58.3	400	Standard	No Exceedance
52	UA	E002	Thallium, total	mg/L	02/24/21 - 08/24/23	11	91	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 08/24/23	10	0	CI around mean	427	1,620	Background	No Exceedance
54	UA	E002	Antimony, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E002	Arsenic, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E002	Barium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.0388	2.0	Standard	No Exceedance
54	UA	E002	Beryllium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E002	Boron, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	0.501	2	Standard	No Exceedance
54	UA	E002	Cadmium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E002	Chloride, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	80.3	435	Background	No Exceedance
54	UA	E002	Chromium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 EAST ASH POND
 HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E002	Cobalt, total	mg/L	02/24/21 - 08/23/23	11	82	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E002	Fluoride, total	mg/L	02/24/21 - 08/23/23	11	9	CI around mean	0.284	4.0	Standard	No Exceedance
54	UA	E002	Lead, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E002	Lithium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.00769	0.04	Standard	No Exceedance
54	UA	E002	Mercury, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
54	UA	E002	Molybdenum, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	0.0199	0.1	Standard	No Exceedance
54	UA	E002	pH (field)	SU	02/24/21 - 08/23/23	11	0	CI around mean	6.9/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/23/23	11	0	CI around mean	0.094	5	Standard	No Exceedance
54	UA	E002	Selenium, total	mg/L	02/24/21 - 08/23/23	11	46	CI around mean	0.00104	0.05	Standard	No Exceedance
54	UA	E002	Sulfate, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	75.7	400	Standard	No Exceedance
54	UA	E002	Thallium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 08/23/23	9	0	CI around mean	488	1,620	Background	No Exceedance

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

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

Notes:

Compliance Result:

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

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

FIGURES



ILLINOIS RIVER

SG02

ASH POND NO. 2 (CLOSED)

LANDFILL

LEACHATE POND

POLISHING POND

EAST ASH POND

XSG01

ASH POND NO. 4 (CLOSED)

07

08D 08

16

17

47

54

13

12

46

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

0 175 350 Feet

MONITORING WELL LOCATION MAP

EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2023**

**ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2023**

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

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
07	Background	08/21/2023	68.39	449.87
08	Background	08/21/2023	54.24	447.13
08D	Background	08/21/2023	54.44	446.89
12	Compliance	08/23/2023	[50.27]	[448.17]
13	Compliance	08/21/2023	51.40	447.06
16	Background	08/28/2023	[53.90]	[447.84]
17	Background	08/21/2023	56.12	451.00
46	Compliance	08/21/2023	51.71	447.03
47	Compliance	08/21/2023	55.85	446.79
52	Compliance	08/21/2023	54.01	446.91
54	Compliance	08/21/2023	53.44	446.85
SG02	Water Level	08/21/2023	NA	440.75

Notes:

Only wells with groundwater elevations measured are included.

BMP = below measuring point

Bracketing [] indicates that the measurement was obtained outside of the 24-hour period from initiation of depth to groundwater measurements.

NA = not available/not applicable

NAVD88 = North American Vertical Datum of 1988

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/07/23 09:17:01

JOB DESCRIPTION

HEN-23Q3
HEN_845_803

JOB NUMBER

500-238579-22

Eurofins Chicago

Job Notes

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

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

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-22
SDG: HEN_845_803

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

Job ID: 500-238579-22

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238579-22

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

Metals

Method 6020B: The initial low level calibration verification (ICVL) result for batch 735519 was above the upper control limit for Be. Sample results were non-detects, and have been reported as qualified data.

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

Field Service / Mobile Lab

Method Field Sampling: "Depth to Water (ft from MP)" value reported is the value recorded in the "WL Reading on Transducer (ft)" column on the SAR-4 form for the following samples: HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_17 (500-238579-59) and HEN_17-FD (500-238579-60).

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

General Chemistry

Method 300.0: The method blank for analytical batch 500-729898 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.

Methods 300.0, 9056A: The method blank for analytical batch 500-731549 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.

Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-22
SDG: HEN_845_803

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

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-22
SDG: HEN_845_803

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238579-15	HEN_12	Water	08/23/23 10:10	08/24/23 09:38
500-238579-16	HEN_13	Water	08/23/23 11:25	08/24/23 09:38
500-238579-18	HEN_46	Water	08/23/23 08:55	08/24/23 09:38
500-238579-19	HEN_47	Water	08/23/23 15:30	08/24/23 09:38
500-238579-20	HEN_54	Water	08/23/23 13:50	08/24/23 09:38
500-238579-25	HEN_52	Water	08/24/23 09:40	08/25/23 09:32
500-238579-28	HEN_07	Water	08/24/23 14:00	08/25/23 09:32
500-238579-30	HEN_08	Water	08/24/23 15:10	08/25/23 09:32
500-238579-32	HEN_08&D	Water	08/24/23 12:25	08/25/23 09:32
500-238579-34	HEN_08_FD	Water	08/24/23 15:10	08/25/23 09:32
500-238579-50	845_803_FB	Water	08/28/23 12:00	08/28/23 15:00
500-238579-58	HEN_16	Water	08/28/23 08:35	08/28/23 15:00
500-238579-59	HEN_17	Water	08/28/23 09:40	08/28/23 15:00
500-238579-60	HEN_17-FD	Water	08/28/23 09:40	08/28/23 15:00

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Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_12
Date Collected: 08/23/23 10:10
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0093		0.0050	0.0020	mg/L		09/28/23 17:00	09/29/23 14:51	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		08/29/23 08:50	09/05/23 15:37	1
Arsenic	0.00051	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 15:37	1
Barium	0.060		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 15:37	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 15:37	1
Boron	0.10		0.050	0.013	mg/L		08/29/23 08:50	10/04/23 23:58	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 15:37	1
Calcium	73		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 15:37	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 15:37	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 15:37	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 15:37	1
Molybdenum	0.017		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 15:37	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 15:37	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 15:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	83		5.0	0.58	mg/L			08/29/23 06:01	5
Fluoride (EPA 300.0)	0.30	J	1.0	0.19	mg/L			08/29/23 05:46	1
Sulfate (EPA 300.0)	65		5.0	1.0	mg/L			08/29/23 06:01	5
Total Dissolved Solids (SM 2540C)	500		10	4.3	mg/L			08/28/23 21:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	50.27				ft			08/23/23 10:10	1
Field pH	7.30				SU			08/23/23 10:10	1
Field Temperature	19.5				Degrees C			08/23/23 10:10	1
Oxidation Reduction Potential	154.1				millivolts			08/23/23 10:10	1
Oxygen, Dissolved	1.88				mg/L			08/23/23 10:10	1
Specific Conductance	558				umhos/cm			08/23/23 10:10	1
Turbidity	3.0				NTU			08/23/23 10:10	1

Client Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Client Sample ID: HEN_13
Date Collected: 08/23/23 11:25
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/29/23 08:50	09/05/23 15:47	1
Arsenic	0.00067	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 15:47	1
Barium	0.044		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 15:47	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 15:47	1
Boron	0.13		0.050	0.013	mg/L		08/29/23 08:50	10/05/23 00:09	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 15:47	1
Calcium	75		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 15:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 15:47	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 15:47	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 15:47	1
Molybdenum	0.013		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 15:47	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 15:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 15:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	81		5.0	0.58	mg/L			08/29/23 06:31	5
Fluoride (EPA 300.0)	0.27	J	1.0	0.19	mg/L			08/29/23 06:16	1
Sulfate (EPA 300.0)	68		5.0	1.0	mg/L			08/29/23 06:31	5
Total Dissolved Solids (SM 2540C)	480		10	4.3	mg/L			08/28/23 21:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	51.4				ft			08/23/23 11:25	1
Field pH	7.39				SU			08/23/23 11:25	1
Field Temperature	21.4				Degrees C			08/23/23 11:25	1
Oxidation Reduction Potential	150.2				millivolts			08/23/23 11:25	1
Oxygen, Dissolved	2.10				mg/L			08/23/23 11:25	1
Specific Conductance	563				umhos/cm			08/23/23 11:25	1
Turbidity	3.05				NTU			08/23/23 11:25	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_46
Date Collected: 08/23/23 08:55
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0087		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:06	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		08/29/23 08:50	09/05/23 15:51	1
Arsenic	0.00051	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 15:51	1
Barium	0.065		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 15:51	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 15:51	1
Boron	0.11		0.050	0.013	mg/L		08/29/23 08:50	10/05/23 00:13	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 15:51	1
Calcium	74		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 15:51	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 15:51	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 15:51	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 15:51	1
Molybdenum	0.019		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 15:51	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 15:51	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 15:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	84	B	5.0	0.58	mg/L			08/29/23 16:32	5
Fluoride (EPA 300.0)	0.31	J	1.0	0.19	mg/L			08/29/23 15:46	1
Sulfate (EPA 300.0)	87		5.0	1.0	mg/L			08/29/23 16:32	5
Total Dissolved Solids (SM 2540C)	460		10	4.3	mg/L			08/28/23 21:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			08/23/23 08:55	1
Field Temperature	20.9				Degrees C			08/23/23 08:55	1
Oxidation Reduction Potential	142.2				millivolts			08/23/23 08:55	1
Oxygen, Dissolved	1.85				mg/L			08/23/23 08:55	1
Specific Conductance	559				umhos/cm			08/23/23 08:55	1
Turbidity	18.98				NTU			08/23/23 08:55	1

Client Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Client Sample ID: HEN_47
Date Collected: 08/23/23 15:30
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:10	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		08/29/23 08:50	09/05/23 15:54	1
Arsenic	0.00048	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 15:54	1
Barium	0.089		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 15:54	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 15:54	1
Boron	0.47		0.050	0.013	mg/L		08/29/23 08:50	10/05/23 00:17	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 15:54	1
Calcium	89		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 15:54	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 15:54	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 15:54	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 15:54	1
Molybdenum	0.026		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 15:54	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 15:54	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 15:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	97	B	2.0	0.23	mg/L			08/29/23 17:02	2
Fluoride (EPA 300.0)	0.35	J	1.0	0.19	mg/L			08/29/23 16:47	1
Sulfate (EPA 300.0)	80		2.0	0.41	mg/L			08/29/23 17:02	2
Total Dissolved Solids (SM 2540C)	520		10	4.3	mg/L			08/28/23 21:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			08/23/23 15:30	1
Field Temperature	21.5				Degrees C			08/23/23 15:30	1
Oxidation Reduction Potential	155.3				millivolts			08/23/23 15:30	1
Oxygen, Dissolved	1.52				mg/L			08/23/23 15:30	1
Specific Conductance	639				umhos/cm			08/23/23 15:30	1
Turbidity	3.20				NTU			08/23/23 15:30	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_54
Date Collected: 08/23/23 13:50
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/29/23 08:50	09/05/23 15:57	1
Arsenic	0.00059	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 15:57	1
Barium	0.053		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 15:57	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 15:57	1
Boron	0.23		0.050	0.013	mg/L		08/29/23 08:50	10/05/23 00:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 15:57	1
Calcium	77		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 15:57	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 15:57	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 15:57	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 15:57	1
Molybdenum	0.030		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 15:57	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 15:57	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 15:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	84	B	5.0	0.58	mg/L			08/29/23 17:33	5
Fluoride (EPA 300.0)	0.33	J	1.0	0.19	mg/L			08/29/23 17:17	1
Sulfate (EPA 300.0)	85		5.0	1.0	mg/L			08/29/23 17:33	5
Total Dissolved Solids (SM 2540C)	510		10	4.3	mg/L			08/28/23 21:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.30				SU			08/23/23 13:50	1
Field Temperature	22.6				Degrees C			08/23/23 13:50	1
Oxidation Reduction Potential	141.0				millivolts			08/23/23 13:50	1
Oxygen, Dissolved	2.31				mg/L			08/23/23 13:50	1
Specific Conductance	576				umhos/cm			08/23/23 13:50	1
Turbidity	13.82				NTU			08/23/23 13:50	1

Client Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
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	0.0096		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:27	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		08/29/23 08:50	09/05/23 16:01	1
Arsenic	0.00053	J	0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 16:01	1
Barium	0.091		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 16:01	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 16:01	1
Boron	0.16		0.050	0.013	mg/L		08/29/23 08:50	10/05/23 00:24	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 16:01	1
Calcium	85		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 16:01	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 16:01	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 16:01	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 16:01	1
Molybdenum	0.013		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 16:01	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 16:01	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 16:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000085	J	0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	88	B	5.0	0.58	mg/L			08/29/23 19:34	5
Fluoride (EPA 300.0)	0.34	J	1.0	0.19	mg/L			08/29/23 18:48	1
Sulfate (EPA 300.0)	62		5.0	1.0	mg/L			08/29/23 19:34	5
Total Dissolved Solids (SM 2540C)	520		10	4.3	mg/L			08/28/23 21:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			08/24/23 09:40	1
Field Temperature	24.0				Degrees C			08/24/23 09:40	1
Oxidation Reduction Potential	145.8				millivolts			08/24/23 09:40	1
Oxygen, Dissolved	1.96				mg/L			08/24/23 09:40	1
Specific Conductance	614				umhos/cm			08/24/23 09:40	1
Turbidity	4.08				NTU			08/24/23 09:40	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_07

Lab Sample ID: 500-238579-28

Date Collected: 08/24/23 14:00

Matrix: Water

Date Received: 08/25/23 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0099		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 02:41	1
Arsenic	0.00065	J B	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 02:41	1
Barium	0.12		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 02:41	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 02:41	1
Boron	0.067		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 02:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 02:41	1
Calcium	94	B	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 02:41	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 02:41	1
Cobalt	0.036		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 02:41	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 02:41	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 02:41	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/06/23 22:51	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/10/23 12:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	51		5.0	0.58	mg/L			08/29/23 21:35	5
Fluoride (EPA 300.0)	0.24	J	1.0	0.19	mg/L			08/29/23 21:20	1
Sulfate (EPA 300.0)	67		5.0	1.0	mg/L			08/29/23 21:35	5
Total Dissolved Solids (SM 2540C)	640		10	4.3	mg/L			08/30/23 11:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	68.39				ft			08/24/23 14:00	1
Field pH	6.91				SU			08/24/23 14:00	1
Field Temperature	13.8				Degrees C			08/24/23 14:00	1
Oxidation Reduction Potential	179.9				millivolts			08/24/23 14:00	1
Oxygen, Dissolved	4.15				mg/L			08/24/23 14:00	1
Specific Conductance	699				umhos/cm			08/24/23 14:00	1
Turbidity	3.55				NTU			08/24/23 14:00	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 02:44	1
Arsenic	0.00092	J B	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 02:44	1
Barium	0.12		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 02:44	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 02:44	1
Boron	0.070		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 02:44	1
Cadmium	0.00045	J	0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 02:44	1
Calcium	160	B	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 02:44	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 02:44	1
Cobalt	0.0036		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 02:44	1
Lead	0.00042	J	0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 02:44	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 02:44	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/06/23 22:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/09/23 12:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/31/23 11:45	09/01/23 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	240		10	1.2	mg/L			08/29/23 22:36	10
Fluoride (EPA 300.0)	0.19	J	1.0	0.19	mg/L			08/29/23 21:50	1
Sulfate (EPA 300.0)	100		10	2.1	mg/L			08/29/23 22:36	10
Total Dissolved Solids (SM 2540C)	1100		10	4.3	mg/L			08/30/23 11:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.72				SU			08/24/23 15:10	1
Field Temperature	14.7				Degrees C			08/24/23 15:10	1
Oxidation Reduction Potential	188.6				millivolts			08/24/23 15:10	1
Oxygen, Dissolved	1.16				mg/L			08/24/23 15:10	1
Specific Conductance	1241				umhos/cm			08/24/23 15:10	1
Turbidity	3.49				NTU			08/24/23 15:10	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_08&D

Lab Sample ID: 500-238579-32

Date Collected: 08/24/23 12:25

Matrix: Water

Date Received: 08/25/23 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 02:48	1
Arsenic	0.0011	B	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 02:48	1
Barium	0.12		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 02:48	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 02:48	1
Boron	0.051		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 02:48	1
Cadmium	0.00023	J	0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 02:48	1
Calcium	200	B	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 02:48	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 02:48	1
Cobalt	0.0032		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 02:48	1
Lead	0.00019	J	0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 02:48	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 02:48	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/06/23 22:58	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/09/23 12:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/31/23 11:45	09/01/23 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	310		10	1.2	mg/L			08/29/23 23:06	10
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			08/29/23 22:51	1
Sulfate (EPA 300.0)	170		10	2.1	mg/L			08/29/23 23:06	10
Total Dissolved Solids (SM 2540C)	1400		10	4.3	mg/L			08/30/23 11:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			08/24/23 12:25	1
Field Temperature	17.3				Degrees C			08/24/23 12:25	1
Oxidation Reduction Potential	192.0				millivolts			08/24/23 12:25	1
Oxygen, Dissolved	0.63				mg/L			08/24/23 12:25	1
Specific Conductance	1435				umhos/cm			08/24/23 12:25	1
Turbidity	4.32				NTU			08/24/23 12:25	1

Client Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Client Sample ID: HEN_08_FD

Lab Sample ID: 500-238579-34

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 02:59	1
Arsenic	0.00091	J B	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 02:59	1
Barium	0.12		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 02:59	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 02:59	1
Boron	0.055		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 02:59	1
Cadmium	0.00044	J	0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 02:59	1
Calcium	160	B	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 02:59	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 02:59	1
Cobalt	0.0036		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 02:59	1
Lead	0.00039	J	0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 02:59	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 02:59	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/06/23 23:01	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/09/23 12:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/31/23 11:45	09/01/23 07:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	230		10	1.2	mg/L			08/29/23 23:37	10
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			08/29/23 23:21	1
Sulfate (EPA 300.0)	110		10	2.1	mg/L			08/29/23 23:37	10
Total Dissolved Solids (SM 2540C)	1100		10	4.3	mg/L			08/30/23 11:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.72				SU			08/24/23 15:10	1
Field Temperature	14.7				Degrees C			08/24/23 15:10	1
Oxidation Reduction Potential	188.6				millivolts			08/24/23 15:10	1
Oxygen, Dissolved	1.16				mg/L			08/24/23 15:10	1
Specific Conductance	1241				umhos/cm			08/24/23 15:10	1
Turbidity	3.49				NTU			08/24/23 15:10	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 Job No: 845002
 SDG: HEN_845_803

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

Client Sample ID: 845_803_FB

Lab Sample ID: 500-238579-50

Date Collected: 08/28/23 12:00

Matrix: Water

Date Received: 08/28/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/22/23 09:44	09/26/23 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/07/23 00:04	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/01/23 08:58	10/07/23 00:04	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/01/23 08:58	10/07/23 00:04	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/01/23 08:58	10/10/23 12:23	1
Boron	<0.050		0.050	0.013	mg/L		09/01/23 08:58	10/10/23 12:23	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 08:58	10/07/23 00:04	1
Calcium	0.14	J B	0.20	0.044	mg/L		09/01/23 08:58	10/07/23 00:04	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/07/23 00:04	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 08:58	10/07/23 00:04	1
Lead	0.00021	J	0.00050	0.00019	mg/L		09/01/23 08:58	10/07/23 00:04	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/09/23 13:23	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/07/23 00:04	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/09/23 13:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/01/23 12:30	09/05/23 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.14	J	1.0	0.12	mg/L			08/30/23 15:34	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			08/30/23 15:34	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			08/30/23 15:34	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			08/30/23 22:27	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_16

Lab Sample ID: 500-238579-58

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0076		0.0050	0.0020	mg/L		09/22/23 09:44	09/26/23 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 04:19	1
Arsenic	0.00065	J B	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 04:19	1
Barium	0.077		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 04:19	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 04:19	1
Boron	0.11		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 04:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 04:19	1
Calcium	73	B	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 04:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 04:19	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 04:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 04:19	1
Molybdenum	0.010		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 04:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/07/23 00:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/10/23 12:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.000079	mg/L		09/06/23 09:20	09/07/23 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	81		5.0	0.58	mg/L			08/30/23 18:06	5
Fluoride (EPA 300.0)	0.31	J	1.0	0.19	mg/L			08/30/23 17:51	1
Sulfate (EPA 300.0)	56		5.0	1.0	mg/L			08/30/23 18:06	5
Total Dissolved Solids (SM 2540C)	450		10	4.3	mg/L			08/31/23 23:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	53.9				ft			08/28/23 08:35	1
Field pH	7.23				SU			08/28/23 08:35	1
Field Temperature	22.8				Degrees C			08/28/23 08:35	1
Oxidation Reduction Potential	122.7				millivolts			08/28/23 08:35	1
Oxygen, Dissolved	0.37				mg/L			08/28/23 08:35	1
Specific Conductance	556				umhos/cm			08/28/23 08:35	1
Turbidity	3.99				NTU			08/28/23 08:35	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
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	0.0064		0.0050	0.0020	mg/L		09/22/23 09:44	09/26/23 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 09:05	09/05/23 19:28	1
Arsenic	0.00057	J	0.0010	0.00023	mg/L		09/01/23 09:05	10/04/23 22:08	1
Barium	0.072		0.0025	0.00073	mg/L		09/01/23 09:05	09/05/23 19:28	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 09:05	10/04/23 22:08	1
Boron	0.076		0.050	0.013	mg/L		09/01/23 09:05	10/04/23 22:08	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 09:05	09/05/23 19:28	1
Calcium	58		0.20	0.044	mg/L		09/01/23 09:05	09/05/23 19:28	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 09:05	09/05/23 19:28	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 09:05	09/05/23 19:28	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 09:05	09/05/23 19:28	1
Molybdenum	0.0071		0.0050	0.0025	mg/L		09/01/23 09:05	09/05/23 19:28	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 09:05	09/05/23 19:28	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 09:05	09/05/23 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000087	J	0.00020	0.000079	mg/L		09/06/23 09:20	09/07/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	80		5.0	0.58	mg/L			08/30/23 18:37	5
Fluoride (EPA 300.0)	0.36	J	1.0	0.19	mg/L			08/30/23 18:21	1
Sulfate (EPA 300.0)	58		5.0	1.0	mg/L			08/30/23 18:37	5
Total Dissolved Solids (SM 2540C)	420		10	4.3	mg/L			08/31/23 23:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	56.12				ft			08/28/23 09:40	1
Field pH	7.34				SU			08/28/23 09:40	1
Field Temperature	22.4				Degrees C			08/28/23 09:40	1
Oxidation Reduction Potential	148.2				millivolts			08/28/23 09:40	1
Oxygen, Dissolved	5.76				mg/L			08/28/23 09:40	1
Specific Conductance	506				umhos/cm			08/28/23 09:40	1
Turbidity	4.02				NTU			08/28/23 09:40	1

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Client Sample ID: HEN_17-FD

Lab Sample ID: 500-238579-60

Date Collected: 08/28/23 09:40

Matrix: Water

Date Received: 08/28/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0064		0.0050	0.0020	mg/L		09/22/23 09:44	09/26/23 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 09:05	09/05/23 19:35	1
Arsenic	0.00064	J	0.0010	0.00023	mg/L		09/01/23 09:05	10/04/23 22:16	1
Barium	0.072		0.0025	0.00073	mg/L		09/01/23 09:05	09/05/23 19:35	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 09:05	10/04/23 22:16	1
Boron	0.082		0.050	0.013	mg/L		09/01/23 09:05	10/04/23 22:16	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 09:05	09/05/23 19:35	1
Calcium	59		0.20	0.044	mg/L		09/01/23 09:05	09/05/23 19:35	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 09:05	09/05/23 19:35	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 09:05	09/05/23 19:35	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 09:05	09/05/23 19:35	1
Molybdenum	0.0074		0.0050	0.0025	mg/L		09/01/23 09:05	09/05/23 19:35	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 09:05	09/05/23 19:35	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 09:05	09/05/23 19:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000097	J	0.00020	0.000079	mg/L		09/06/23 09:20	09/07/23 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	80		5.0	0.58	mg/L			08/30/23 19:37	5
Fluoride (EPA 300.0)	0.36	J	1.0	0.19	mg/L			08/30/23 19:22	1
Sulfate (EPA 300.0)	57		5.0	1.0	mg/L			08/30/23 19:37	5
Total Dissolved Solids (SM 2540C)	430		10	4.3	mg/L			08/31/23 23:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	56.12				ft			08/28/23 09:40	1
Field pH	7.34				SU			08/28/23 09:40	1
Field Temperature	22.4				Degrees C			08/28/23 09:40	1
Oxidation Reduction Potential	148.2				millivolts			08/28/23 09:40	1
Oxygen, Dissolved	5.76				mg/L			08/28/23 09:40	1
Specific Conductance	506				umhos/cm			08/28/23 09:40	1
Turbidity	4.02				NTU			08/28/23 09:40	1

Definitions/Glossary

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

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Metals

Prep Batch: 729866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total Recoverable	Water	3005A	
500-238579-16	HEN_13	Total Recoverable	Water	3005A	
500-238579-18	HEN_46	Total Recoverable	Water	3005A	
500-238579-19	HEN_47	Total Recoverable	Water	3005A	
500-238579-20	HEN_54	Total Recoverable	Water	3005A	
500-238579-25	HEN_52	Total Recoverable	Water	3005A	
MB 500-729866/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-729866/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 730135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total/NA	Water	7470A	
500-238579-16	HEN_13	Total/NA	Water	7470A	
500-238579-18	HEN_46	Total/NA	Water	7470A	
500-238579-19	HEN_47	Total/NA	Water	7470A	
500-238579-20	HEN_54	Total/NA	Water	7470A	
500-238579-25	HEN_52	Total/NA	Water	7470A	
500-238579-28	HEN_07	Total/NA	Water	7470A	
MB 500-730135/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-730135/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 730327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total/NA	Water	7470A	730135
500-238579-16	HEN_13	Total/NA	Water	7470A	730135
500-238579-18	HEN_46	Total/NA	Water	7470A	730135
500-238579-19	HEN_47	Total/NA	Water	7470A	730135
500-238579-20	HEN_54	Total/NA	Water	7470A	730135
500-238579-25	HEN_52	Total/NA	Water	7470A	730135
500-238579-28	HEN_07	Total/NA	Water	7470A	730135
MB 500-730135/12-A	Method Blank	Total/NA	Water	7470A	730135
LCS 500-730135/13-A	Lab Control Sample	Total/NA	Water	7470A	730135

Prep Batch: 730358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-30	HEN_08	Total/NA	Water	7470A	
500-238579-32	HEN_08&D	Total/NA	Water	7470A	
500-238579-34	HEN_08_FD	Total/NA	Water	7470A	
MB 500-730358/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-730358/13-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 730368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-730368/1-C	Method Blank	Total/NA	Water	FILTRATION	

Prep Batch: 730528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-28	HEN_07	Total Recoverable	Water	3005A	
500-238579-30	HEN_08	Total Recoverable	Water	3005A	
500-238579-32	HEN_08&D	Total Recoverable	Water	3005A	
500-238579-34	HEN_08_FD	Total Recoverable	Water	3005A	

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QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN_845_803
 SDG: HEN_845_803

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

Metals (Continued)

Prep Batch: 730528 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total Recoverable	Water	3005A	
500-238579-58	HEN_16	Total Recoverable	Water	3005A	
MB 500-730528/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-730528/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 730537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-59	HEN_17	Total Recoverable	Water	3005A	
500-238579-60	HEN_17-FD	Total Recoverable	Water	3005A	
MB 500-730537/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-730537/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 730570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-30	HEN_08	Total/NA	Water	7470A	730358
500-238579-32	HEN_08&D	Total/NA	Water	7470A	730358
500-238579-34	HEN_08_FD	Total/NA	Water	7470A	730358
MB 500-730358/12-A	Method Blank	Total/NA	Water	7470A	730358
LCS 500-730358/13-A	Lab Control Sample	Total/NA	Water	7470A	730358

Prep Batch: 730601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total/NA	Water	7470A	
MB 500-730368/1-C	Method Blank	Total/NA	Water	7470A	730368
MB 500-730601/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-730601/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 730809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total/NA	Water	7470A	730601
MB 500-730368/1-C	Method Blank	Total/NA	Water	7470A	730601
MB 500-730601/12-A	Method Blank	Total/NA	Water	7470A	730601
LCS 500-730601/13-A	Lab Control Sample	Total/NA	Water	7470A	730601

Prep Batch: 730985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-58	HEN_16	Total/NA	Water	7470A	
500-238579-59	HEN_17	Total/NA	Water	7470A	
500-238579-60	HEN_17-FD	Total/NA	Water	7470A	
MB 500-730985/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-730985/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 731002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total Recoverable	Water	6020B	729866
500-238579-16	HEN_13	Total Recoverable	Water	6020B	729866
500-238579-18	HEN_46	Total Recoverable	Water	6020B	729866
500-238579-19	HEN_47	Total Recoverable	Water	6020B	729866
500-238579-20	HEN_54	Total Recoverable	Water	6020B	729866
500-238579-25	HEN_52	Total Recoverable	Water	6020B	729866
500-238579-59	HEN_17	Total Recoverable	Water	6020B	730537

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Metals (Continued)

Analysis Batch: 731002 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-60	HEN_17-FD	Total Recoverable	Water	6020B	730537
MB 500-729866/1-A	Method Blank	Total Recoverable	Water	6020B	729866
MB 500-730537/1-A	Method Blank	Total Recoverable	Water	6020B	730537
LCS 500-729866/2-A	Lab Control Sample	Total Recoverable	Water	6020B	729866
LCS 500-730537/2-A	Lab Control Sample	Total Recoverable	Water	6020B	730537

Analysis Batch: 731203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-58	HEN_16	Total/NA	Water	7470A	730985
500-238579-59	HEN_17	Total/NA	Water	7470A	730985
500-238579-60	HEN_17-FD	Total/NA	Water	7470A	730985
MB 500-730985/12-A	Method Blank	Total/NA	Water	7470A	730985
LCS 500-730985/13-A	Lab Control Sample	Total/NA	Water	7470A	730985

Prep Batch: 733239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-16	HEN_13	Total Recoverable	Water	200.7	
500-238579-18	HEN_46	Total Recoverable	Water	200.7	
500-238579-19	HEN_47	Total Recoverable	Water	200.7	
500-238579-20	HEN_54	Total Recoverable	Water	200.7	
500-238579-25	HEN_52	Total Recoverable	Water	200.7	
500-238579-28	HEN_07	Total Recoverable	Water	200.7	
500-238579-30	HEN_08	Total Recoverable	Water	200.7	
500-238579-32	HEN_08&D	Total Recoverable	Water	200.7	
500-238579-34	HEN_08_FD	Total Recoverable	Water	200.7	
MB 500-733239/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-733239/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-238579-16 MS	HEN_13	Total Recoverable	Water	200.7	
500-238579-16 DU	HEN_13	Total Recoverable	Water	200.7	

Prep Batch: 733585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total Recoverable	Water	200.7	
500-238579-58	HEN_16	Total Recoverable	Water	200.7	
500-238579-59	HEN_17	Total Recoverable	Water	200.7	
500-238579-60	HEN_17-FD	Total Recoverable	Water	200.7	
MB 500-733585/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-733585/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 734023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-16	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-18	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-19	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-20	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-25	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-28	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-30	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-32	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-34	HEN_08_FD	Total Recoverable	Water	200.7 Rev 4.4	733239
MB 500-733239/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733239

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Metals (Continued)

Analysis Batch: 734023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-733239/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-16 MS	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	733239
500-238579-16 DU	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	733239

Analysis Batch: 734227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total Recoverable	Water	200.7 Rev 4.4	733585
500-238579-58	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	733585
500-238579-59	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	733585
500-238579-60	HEN_17-FD	Total Recoverable	Water	200.7 Rev 4.4	733585
MB 500-733585/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733585
LCS 500-733585/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	733585

Prep Batch: 734532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total Recoverable	Water	200.7	
MB 500-734532/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734532/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 734888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	734532
MB 500-734532/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734532
LCS 500-734532/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734532

Analysis Batch: 735519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total Recoverable	Water	6020B	729866
500-238579-16	HEN_13	Total Recoverable	Water	6020B	729866
500-238579-18	HEN_46	Total Recoverable	Water	6020B	729866
500-238579-19	HEN_47	Total Recoverable	Water	6020B	729866
500-238579-20	HEN_54	Total Recoverable	Water	6020B	729866
500-238579-25	HEN_52	Total Recoverable	Water	6020B	729866
500-238579-28	HEN_07	Total Recoverable	Water	6020B	730528
500-238579-30	HEN_08	Total Recoverable	Water	6020B	730528
500-238579-32	HEN_08&D	Total Recoverable	Water	6020B	730528
500-238579-34	HEN_08_FD	Total Recoverable	Water	6020B	730528
500-238579-58	HEN_16	Total Recoverable	Water	6020B	730528
500-238579-59	HEN_17	Total Recoverable	Water	6020B	730537
500-238579-60	HEN_17-FD	Total Recoverable	Water	6020B	730537
MB 500-729866/1-A	Method Blank	Total Recoverable	Water	6020B	729866
MB 500-730528/1-A	Method Blank	Total Recoverable	Water	6020B	730528
MB 500-730537/1-A	Method Blank	Total Recoverable	Water	6020B	730537
LCS 500-729866/2-A	Lab Control Sample	Total Recoverable	Water	6020B	729866
LCS 500-730528/2-A	Lab Control Sample	Total Recoverable	Water	6020B	730528
LCS 500-730537/2-A	Lab Control Sample	Total Recoverable	Water	6020B	730537

Analysis Batch: 736032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-28	HEN_07	Total Recoverable	Water	6020B	730528
500-238579-30	HEN_08	Total Recoverable	Water	6020B	730528

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

Metals (Continued)

Analysis Batch: 736032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-32	HEN_08&D	Total Recoverable	Water	6020B	730528
500-238579-34	HEN_08_FD	Total Recoverable	Water	6020B	730528
500-238579-50	845_803_FB	Total Recoverable	Water	6020B	730528
500-238579-58	HEN_16	Total Recoverable	Water	6020B	730528
MB 500-730528/1-A	Method Blank	Total Recoverable	Water	6020B	730528
LCS 500-730528/2-A	Lab Control Sample	Total Recoverable	Water	6020B	730528

Analysis Batch: 736227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-30	HEN_08	Total Recoverable	Water	6020B	730528
500-238579-32	HEN_08&D	Total Recoverable	Water	6020B	730528
500-238579-34	HEN_08_FD	Total Recoverable	Water	6020B	730528
500-238579-50	845_803_FB	Total Recoverable	Water	6020B	730528
MB 500-730528/1-A	Method Blank	Total Recoverable	Water	6020B	730528
LCS 500-730528/2-A	Lab Control Sample	Total Recoverable	Water	6020B	730528

Analysis Batch: 736355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-28	HEN_07	Total Recoverable	Water	6020B	730528
500-238579-50	845_803_FB	Total Recoverable	Water	6020B	730528
500-238579-58	HEN_16	Total Recoverable	Water	6020B	730528

General Chemistry

Analysis Batch: 729689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total/NA	Water	300.0	
500-238579-15	HEN_12	Total/NA	Water	300.0	
500-238579-16	HEN_13	Total/NA	Water	300.0	
500-238579-16	HEN_13	Total/NA	Water	300.0	
MB 500-729689/34	Method Blank	Total/NA	Water	300.0	
LCS 500-729689/35	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 729794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total/NA	Water	SM 2540C	
500-238579-16	HEN_13	Total/NA	Water	SM 2540C	
500-238579-18	HEN_46	Total/NA	Water	SM 2540C	
500-238579-19	HEN_47	Total/NA	Water	SM 2540C	
500-238579-20	HEN_54	Total/NA	Water	SM 2540C	
500-238579-25	HEN_52	Total/NA	Water	SM 2540C	
MB 500-729794/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-729794/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 729898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-18	HEN_46	Total/NA	Water	300.0	
500-238579-18	HEN_46	Total/NA	Water	300.0	
500-238579-19	HEN_47	Total/NA	Water	300.0	
500-238579-19	HEN_47	Total/NA	Water	300.0	
500-238579-20	HEN_54	Total/NA	Water	300.0	

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-22
SDG: HEN_845_803

General Chemistry (Continued)

Analysis Batch: 729898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-20	HEN_54	Total/NA	Water	300.0	
500-238579-25	HEN_52	Total/NA	Water	300.0	
500-238579-25	HEN_52	Total/NA	Water	300.0	
500-238579-28	HEN_07	Total/NA	Water	300.0	
500-238579-28	HEN_07	Total/NA	Water	300.0	
500-238579-30	HEN_08	Total/NA	Water	300.0	
500-238579-30	HEN_08	Total/NA	Water	300.0	
500-238579-32	HEN_08&D	Total/NA	Water	300.0	
500-238579-32	HEN_08&D	Total/NA	Water	300.0	
500-238579-34	HEN_08_FD	Total/NA	Water	300.0	
500-238579-34	HEN_08_FD	Total/NA	Water	300.0	
MB 500-729898/3	Method Blank	Total/NA	Water	300.0	
MB 500-729898/44	Method Blank	Total/NA	Water	300.0	
LCS 500-729898/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-729898/45	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 730129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-28	HEN_07	Total/NA	Water	SM 2540C	
500-238579-30	HEN_08	Total/NA	Water	SM 2540C	
500-238579-32	HEN_08&D	Total/NA	Water	SM 2540C	
500-238579-34	HEN_08_FD	Total/NA	Water	SM 2540C	
MB 500-730129/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730129/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 730144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total/NA	Water	300.0	
500-238579-58	HEN_16	Total/NA	Water	300.0	
500-238579-58	HEN_16	Total/NA	Water	300.0	
500-238579-59	HEN_17	Total/NA	Water	300.0	
500-238579-59	HEN_17	Total/NA	Water	300.0	
500-238579-60	HEN_17-FD	Total/NA	Water	300.0	
500-238579-60	HEN_17-FD	Total/NA	Water	300.0	
MB 500-730144/3	Method Blank	Total/NA	Water	300.0	
LCS 500-730144/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 730219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-50	845_803_FB	Total/NA	Water	SM 2540C	
MB 500-730219/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730219/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 730463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-58	HEN_16	Total/NA	Water	SM 2540C	
500-238579-59	HEN_17	Total/NA	Water	SM 2540C	
500-238579-60	HEN_17-FD	Total/NA	Water	SM 2540C	
MB 500-730463/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730463/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-238579-58 MS	HEN_16	Total/NA	Water	SM 2540C	

QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 Job ID: 845-002
 SDG: HEN_845_803

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

General Chemistry (Continued)

Analysis Batch: 730463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-58 DU	HEN_16	Total/NA	Water	SM 2540C	
500-238579-59 DU	HEN_17	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 731893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-15	HEN_12	Total/NA	Water	Field Sampling	
500-238579-16	HEN_13	Total/NA	Water	Field Sampling	
500-238579-18	HEN_46	Total/NA	Water	Field Sampling	
500-238579-19	HEN_47	Total/NA	Water	Field Sampling	
500-238579-20	HEN_54	Total/NA	Water	Field Sampling	
500-238579-25	HEN_52	Total/NA	Water	Field Sampling	
500-238579-28	HEN_07	Total/NA	Water	Field Sampling	
500-238579-30	HEN_08	Total/NA	Water	Field Sampling	
500-238579-32	HEN_08&D	Total/NA	Water	Field Sampling	
500-238579-34	HEN_08_FD	Total/NA	Water	Field Sampling	
500-238579-58	HEN_16	Total/NA	Water	Field Sampling	
500-238579-59	HEN_17	Total/NA	Water	Field Sampling	
500-238579-60	HEN_17-FD	Total/NA	Water	Field Sampling	

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-733239/1-A
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 733239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/20/23 18:37	09/25/23 17:47	1

Lab Sample ID: LCS 500-733239/2-A
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 733239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.264		mg/L		106	85 - 115

Lab Sample ID: 500-238579-16 MS
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: HEN_13
 Prep Type: Total Recoverable
 Prep Batch: 733239

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.011		0.250	0.293		mg/L		113	70 - 130

Lab Sample ID: 500-238579-16 DU
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: HEN_13
 Prep Type: Total Recoverable
 Prep Batch: 733239

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.011			0.00924		mg/L		20	20

Lab Sample ID: MB 500-733585/1-A
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 733585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/22/23 09:44	09/26/23 15:21	1

Lab Sample ID: LCS 500-733585/2-A
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 733585

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

Lab Sample ID: MB 500-734532/1-A
 Matrix: Water
 Analysis Batch: 734888

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/28/23 17:00	09/29/23 14:43	1

Lab Sample ID: LCS 500-734532/2-A
 Matrix: Water
 Analysis Batch: 734888

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.255		mg/L		102	85 - 115

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QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-729866/1-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 729866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/29/23 08:50	09/05/23 14:24	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/29/23 08:50	09/05/23 14:24	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/29/23 08:50	09/05/23 14:24	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/29/23 08:50	09/05/23 14:24	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/29/23 08:50	09/05/23 14:24	1
Calcium	<0.20		0.20	0.044	mg/L		08/29/23 08:50	09/05/23 14:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/29/23 08:50	09/05/23 14:24	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/29/23 08:50	09/05/23 14:24	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/29/23 08:50	09/05/23 14:24	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/29/23 08:50	09/05/23 14:24	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/29/23 08:50	09/05/23 14:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/29/23 08:50	09/05/23 14:24	1

Lab Sample ID: MB 500-729866/1-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 729866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.013	mg/L		08/29/23 08:50	10/04/23 22:39	1

Lab Sample ID: LCS 500-729866/2-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 729866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.522		mg/L		104	80 - 120
Arsenic	0.100	0.0921		mg/L		92	80 - 120
Barium	0.500	0.527		mg/L		105	80 - 120
Beryllium	0.0500	0.0547		mg/L		109	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.546		mg/L		109	80 - 120
Lead	0.100	0.116		mg/L		116	80 - 120
Molybdenum	1.00	0.986		mg/L		99	80 - 120
Selenium	0.100	0.0939		mg/L		94	80 - 120
Thallium	0.100	0.115		mg/L		115	80 - 120

Lab Sample ID: LCS 500-729866/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 729866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.934		mg/L		93	80 - 120

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

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

Lab Sample ID: MB 500-730528/1-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 08:58	10/05/23 02:29	1
Arsenic	0.000279	J	0.0010	0.00023	mg/L		09/01/23 08:58	10/05/23 02:29	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/01/23 08:58	10/05/23 02:29	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 08:58	10/05/23 02:29	1
Boron	<0.050		0.050	0.013	mg/L		09/01/23 08:58	10/05/23 02:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 08:58	10/05/23 02:29	1
Calcium	0.0704	J	0.20	0.044	mg/L		09/01/23 08:58	10/05/23 02:29	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 08:58	10/05/23 02:29	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 08:58	10/05/23 02:29	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 08:58	10/05/23 02:29	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 08:58	10/05/23 02:29	1

Lab Sample ID: MB 500-730528/1-A
 Matrix: Water
 Analysis Batch: 736032

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 08:58	10/06/23 22:41	1

Lab Sample ID: MB 500-730528/1-A
 Matrix: Water
 Analysis Batch: 736227

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 08:58	10/09/23 12:24	1

Lab Sample ID: LCS 500-730528/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.507		mg/L		101	80 - 120
Arsenic	0.100	0.0933		mg/L		93	80 - 120
Barium	0.500	0.546		mg/L		109	80 - 120
Beryllium	0.0500	0.0507	^1+	mg/L		101	80 - 120
Boron	1.00	0.920		mg/L		92	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Calcium	10.0	9.67		mg/L		97	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	0.975		mg/L		97	80 - 120

Lab Sample ID: LCS 500-730528/2-A
 Matrix: Water
 Analysis Batch: 736032

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.0967		mg/L		97	80 - 120

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

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

Lab Sample ID: LCS 500-730528/2-A
 Matrix: Water
 Analysis Batch: 736227

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: MB 500-730537/1-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/01/23 09:05	09/05/23 18:33	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/01/23 09:05	09/05/23 18:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/01/23 09:05	09/05/23 18:33	1
Calcium	<0.20		0.20	0.044	mg/L		09/01/23 09:05	09/05/23 18:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/01/23 09:05	09/05/23 18:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/01/23 09:05	09/05/23 18:33	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/01/23 09:05	09/05/23 18:33	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/01/23 09:05	09/05/23 18:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/01/23 09:05	09/05/23 18:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/01/23 09:05	09/05/23 18:33	1

Lab Sample ID: MB 500-730537/1-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/01/23 09:05	10/04/23 20:49	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		09/01/23 09:05	10/04/23 20:49	1
Boron	<0.050		0.050	0.013	mg/L		09/01/23 09:05	10/04/23 20:49	1

Lab Sample ID: LCS 500-730537/2-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.522		mg/L		104	80 - 120
Barium	0.500	0.516		mg/L		103	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.531		mg/L		106	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	0.984		mg/L		98	80 - 120
Selenium	0.100	0.0919		mg/L		92	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LCS 500-730537/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0974		mg/L		97	80 - 120

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

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

Lab Sample ID: LCS 500-730537/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730537

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0527	^1+	mg/L		105	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-730135/12-A
 Matrix: Water
 Analysis Batch: 730327

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/30/23 11:30	08/31/23 06:53	1

Lab Sample ID: LCS 500-730135/13-A
 Matrix: Water
 Analysis Batch: 730327

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00206		mg/L		103	80 - 120

Lab Sample ID: MB 500-730358/12-A
 Matrix: Water
 Analysis Batch: 730570

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		08/31/23 11:45	09/01/23 06:55	1

Lab Sample ID: LCS 500-730358/13-A
 Matrix: Water
 Analysis Batch: 730570

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00201		mg/L		100	80 - 120

Lab Sample ID: MB 500-730368/1-C
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/01/23 12:30	09/05/23 06:57	1

Lab Sample ID: MB 500-730601/12-A
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/01/23 12:30	09/05/23 06:53	1

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

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

Lab Sample ID: LCS 500-730601/13-A
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00209		mg/L		104	80 - 120

Lab Sample ID: MB 500-730985/12-A
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/06/23 09:20	09/07/23 07:26	1

Lab Sample ID: LCS 500-730985/13-A
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00206		mg/L		103	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-729689/34
 Matrix: Water
 Analysis Batch: 729689

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			08/28/23 18:23	1
Fluoride	<1.0		1.0	0.19	mg/L			08/28/23 18:23	1
Sulfate	<1.0		1.0	0.21	mg/L			08/28/23 18:23	1

Lab Sample ID: LCS 500-729689/35
 Matrix: Water
 Analysis Batch: 729689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	90 - 110
Fluoride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	20.9		mg/L		104	90 - 110

Lab Sample ID: MB 500-729898/3
 Matrix: Water
 Analysis Batch: 729898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.120	J	1.0	0.12	mg/L			08/29/23 10:28	1
Fluoride	<1.0		1.0	0.19	mg/L			08/29/23 10:28	1
Sulfate	<1.0		1.0	0.21	mg/L			08/29/23 10:28	1

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-729898/44
 Matrix: Water
 Analysis Batch: 729898

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			08/29/23 20:50	1
Fluoride	<1.0		1.0	0.19	mg/L			08/29/23 20:50	1
Sulfate	<1.0		1.0	0.21	mg/L			08/29/23 20:50	1

Lab Sample ID: LCS 500-729898/4
 Matrix: Water
 Analysis Batch: 729898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	90 - 110
Fluoride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	20.9		mg/L		104	90 - 110

Lab Sample ID: LCS 500-729898/45
 Matrix: Water
 Analysis Batch: 729898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		98	90 - 110
Fluoride	20.0	20.4		mg/L		102	90 - 110
Sulfate	20.0	20.9		mg/L		104	90 - 110

Lab Sample ID: MB 500-730144/3
 Matrix: Water
 Analysis Batch: 730144

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			08/30/23 13:15	1
Fluoride	<1.0		1.0	0.19	mg/L			08/30/23 13:15	1
Sulfate	<1.0		1.0	0.21	mg/L			08/30/23 13:15	1

Lab Sample ID: LCS 500-730144/4
 Matrix: Water
 Analysis Batch: 730144

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.5		mg/L		97	90 - 110
Fluoride	20.0	20.1		mg/L		100	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

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

Lab Sample ID: MB 500-729794/1
 Matrix: Water
 Analysis Batch: 729794

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			08/28/23 20:37	1

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN-23Q3
 SDG: HEN_845_803

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

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

Lab Sample ID: LCS 500-729794/2
 Matrix: Water
 Analysis Batch: 729794

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	232		mg/L		93	80 - 120

Lab Sample ID: MB 500-730129/1
 Matrix: Water
 Analysis Batch: 730129

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			08/30/23 11:22	1

Lab Sample ID: LCS 500-730129/2
 Matrix: Water
 Analysis Batch: 730129

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	290		mg/L		116	80 - 120

Lab Sample ID: MB 500-730219/1
 Matrix: Water
 Analysis Batch: 730219

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			08/30/23 21:46	1

Lab Sample ID: LCS 500-730219/2
 Matrix: Water
 Analysis Batch: 730219

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

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

Lab Sample ID: MB 500-730463/1
 Matrix: Water
 Analysis Batch: 730463

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			08/31/23 23:07	1

Lab Sample ID: LCS 500-730463/2
 Matrix: Water
 Analysis Batch: 730463

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

Lab Sample ID: 500-238579-58 MS
 Matrix: Water
 Analysis Batch: 730463

Client Sample ID: HEN_16
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	450		250	728		mg/L		111	75 - 125

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QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023

HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-22

SDG: HEN_845_803

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

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

Lab Sample ID: 500-238579-58 DU

Matrix: Water

Analysis Batch: 730463

Client Sample ID: HEN_16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	450		430		mg/L		5	5

Lab Sample ID: 500-238579-59 DU

Matrix: Water

Analysis Batch: 730463

Client Sample ID: HEN_17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	420		426		mg/L		0.9	5



Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 Job No: 845002
 SDG: HEN_845_803

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

Client Sample ID: HEN_12
Date Collected: 08/23/23 10:10
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734532	MC	EET CHI	09/28/23 17:00 - 09/28/23 23:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734888	RN	EET CHI	09/29/23 14:51
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 15:37
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/04/23 23:58
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:27
Total/NA	Analysis	300.0		1	729689	W1T	EET CHI	08/29/23 05:46
Total/NA	Analysis	300.0		5	729689	W1T	EET CHI	08/29/23 06:01
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:13
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/23/23 10:10

Client Sample ID: HEN_13
Date Collected: 08/23/23 11:25
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 18:49
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 15:47
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 00:09
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:30
Total/NA	Analysis	300.0		1	729689	W1T	EET CHI	08/29/23 06:16
Total/NA	Analysis	300.0		5	729689	W1T	EET CHI	08/29/23 06:31
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:15
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/23/23 11:25

Client Sample ID: HEN_46
Date Collected: 08/23/23 08:55
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:06
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 15:51
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 00:13
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:32

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Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 Job ID: 845-802
 SDG: HEN_845_803

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

Client Sample ID: HEN_46
Date Collected: 08/23/23 08:55
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 15:46
Total/NA	Analysis	300.0		5	729898	W1T	EET CHI	08/29/23 16:32
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:18
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/23/23 08:55

Client Sample ID: HEN_47
Date Collected: 08/23/23 15:30
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:10
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 15:54
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 00:17
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:34
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 16:47
Total/NA	Analysis	300.0		2	729898	W1T	EET CHI	08/29/23 17:02
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:20
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/23/23 15:30

Client Sample ID: HEN_54
Date Collected: 08/23/23 13:50
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:14
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 15:57
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 00:21
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:36
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 17:17
Total/NA	Analysis	300.0		5	729898	W1T	EET CHI	08/29/23 17:33
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:23
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/23/23 13:50

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 Job ID: 845-803
 SDG: HEN_845_803

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

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:27
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 16:01
Total Recoverable	Prep	3005A			729866	BDE	EET CHI	08/29/23 08:50 - 08/29/23 09:20 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 00:24
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:42
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 18:48
Total/NA	Analysis	300.0		5	729898	W1T	EET CHI	08/29/23 19:34
Total/NA	Analysis	SM 2540C		1	729794	CLB	EET CHI	08/28/23 21:31
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/24/23 09:40

Client Sample ID: HEN_07
Date Collected: 08/24/23 14:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:31
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 02:41
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/06/23 22:51
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 12:10
Total/NA	Prep	7470A			730135	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 ¹
Total/NA	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 07:49
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 21:20
Total/NA	Analysis	300.0		5	729898	W1T	EET CHI	08/29/23 21:35
Total/NA	Analysis	SM 2540C		1	730129	SO	EET CHI	08/30/23 11:27
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/24/23 14:00

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:35
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 02:44
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/06/23 22:55

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Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN_845_803
 SDG: HEN_845_803

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

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736227	JP	EET CHI	10/09/23 12:38
Total/NA	Prep	7470A			730358	MJG	EET CHI	08/31/23 11:45 - 08/31/23 13:45 ¹
Total/NA	Analysis	7470A		1	730570	MJG	EET CHI	09/01/23 07:02
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 21:50
Total/NA	Analysis	300.0		10	729898	W1T	EET CHI	08/29/23 22:36
Total/NA	Analysis	SM 2540C		1	730129	SO	EET CHI	08/30/23 11:30
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/24/23 15:10

Client Sample ID: HEN_08&D
Date Collected: 08/24/23 12:25
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:40
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 02:48
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/06/23 22:58
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736227	JP	EET CHI	10/09/23 12:41
Total/NA	Prep	7470A			730358	MJG	EET CHI	08/31/23 11:45 - 08/31/23 13:45 ¹
Total/NA	Analysis	7470A		1	730570	MJG	EET CHI	09/01/23 07:04
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 22:51
Total/NA	Analysis	300.0		10	729898	W1T	EET CHI	08/29/23 23:06
Total/NA	Analysis	SM 2540C		1	730129	SO	EET CHI	08/30/23 11:33
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/24/23 12:25

Client Sample ID: HEN_08_FD
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733239	MC	EET CHI	09/20/23 18:37 - 09/20/23 23:37 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734023	RN	EET CHI	09/25/23 19:44
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 02:59
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/06/23 23:01
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736227	JP	EET CHI	10/09/23 12:45
Total/NA	Prep	7470A			730358	MJG	EET CHI	08/31/23 11:45 - 08/31/23 13:45 ¹
Total/NA	Analysis	7470A		1	730570	MJG	EET CHI	09/01/23 07:06

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 HEN_845_803
 SDG: HEN_845_803

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

Client Sample ID: HEN_08_FD
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	729898	W1T	EET CHI	08/29/23 23:21
Total/NA	Analysis	300.0		10	729898	W1T	EET CHI	08/29/23 23:37
Total/NA	Analysis	SM 2540C		1	730129	SO	EET CHI	08/30/23 11:36
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/24/23 15:10

Client Sample ID: 845_803_FB
Date Collected: 08/28/23 12:00
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733585	BDE	EET CHI	09/22/23 09:44 - 09/22/23 10:14 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734227	RN	EET CHI	09/26/23 18:14
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/07/23 00:04
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736227	JP	EET CHI	10/09/23 13:23
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 12:23
Total/NA	Prep	7470A			730601	MJG	EET CHI	09/01/23 12:30 - 09/01/23 14:30 ¹
Total/NA	Analysis	7470A		1	730809	MJG	EET CHI	09/05/23 07:29
Total/NA	Analysis	300.0		1	730144	EH	EET CHI	08/30/23 15:34
Total/NA	Analysis	SM 2540C		1	730219	CLB	EET CHI	08/30/23 22:27

Client Sample ID: HEN_16
Date Collected: 08/28/23 08:35
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-58
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733585	BDE	EET CHI	09/22/23 09:44 - 09/22/23 10:14 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734227	RN	EET CHI	09/26/23 19:33
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/05/23 04:19
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736032	BJH	EET CHI	10/07/23 00:11
Total Recoverable	Prep	3005A			730528	BDE	EET CHI	09/01/23 08:58 - 09/01/23 09:28 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 12:37
Total/NA	Prep	7470A			730985	MJG	EET CHI	09/06/23 09:20 - 09/06/23 11:20 ¹
Total/NA	Analysis	7470A		1	731203	MJG	EET CHI	09/07/23 08:10
Total/NA	Analysis	300.0		1	730144	EH	EET CHI	08/30/23 17:51
Total/NA	Analysis	300.0		5	730144	EH	EET CHI	08/30/23 18:06
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:12
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/28/23 08:35

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-22
 SDG: HEN_845_803

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

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733585	BDE	EET CHI	09/22/23 09:44 - 09/22/23 10:14 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734227	RN	EET CHI	09/26/23 19:42
Total Recoverable	Prep	3005A			730537	BDE	EET CHI	09/01/23 09:05 - 09/01/23 09:35 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 19:28
Total Recoverable	Prep	3005A			730537	BDE	EET CHI	09/01/23 09:05 - 09/01/23 09:35 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/04/23 22:08
Total/NA	Prep	7470A			730985	MJG	EET CHI	09/06/23 09:20 - 09/06/23 11:20 ¹
Total/NA	Analysis	7470A		1	731203	MJG	EET CHI	09/07/23 08:12
Total/NA	Analysis	300.0		1	730144	EH	EET CHI	08/30/23 18:21
Total/NA	Analysis	300.0		5	730144	EH	EET CHI	08/30/23 18:37
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:19
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/28/23 09:40

Client Sample ID: HEN_17-FD
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-60
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733585	BDE	EET CHI	09/22/23 09:44 - 09/22/23 10:14 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734227	RN	EET CHI	09/26/23 19:50
Total Recoverable	Prep	3005A			730537	BDE	EET CHI	09/01/23 09:05 - 09/01/23 09:35 ¹
Total Recoverable	Analysis	6020B		1	731002	EH	EET CHI	09/05/23 19:35
Total Recoverable	Prep	3005A			730537	BDE	EET CHI	09/01/23 09:05 - 09/01/23 09:35 ¹
Total Recoverable	Analysis	6020B		1	735519	BJH	EET CHI	10/04/23 22:16
Total/NA	Prep	7470A			730985	MJG	EET CHI	09/06/23 09:20 - 09/06/23 11:20 ¹
Total/NA	Analysis	7470A		1	731203	MJG	EET CHI	09/07/23 08:22
Total/NA	Analysis	300.0		1	730144	EH	EET CHI	08/30/23 19:22
Total/NA	Analysis	300.0		5	730144	EH	EET CHI	08/30/23 19:37
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:25
Total/NA	Analysis	Field Sampling		1	731893	DN	EET CHI	08/28/23 09:40

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.

15 QUARTERLY REPORT - QUARTER 3, 2023

HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-22

SDG: HEN_845_803

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

Laboratory: Eurofins Chicago

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

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

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

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



500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		REGULATORY AGENCY	
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 3030 Warrenville Rd Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER	
Lisle IL 60532		Purchase Order No.		Address: see Section A		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Project Name:		Quote Reference		STATE: IL	
Phone: (217) 753-8911 Fax:		Project Number: 50021987		Project Manager			
Requested Due Date/TAT: 10 day				Profile #:			

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31

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)													Project No./ Lab ID												
							Preservatives																									
							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_CLOSURE_802-805	HEN_CLOSURE_804	HEN_SUP_000	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)			
1	HEN_08		8/24/23	1510											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	Trip Blank																															Added by EEA 8/23/23 EHA
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																
13																																
14																																
15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Allison Beckett	8/24/23	1700	M. G. Elias EEA	8/25/23	0925	Y Y Y
	M. G. Elias EEA	8/25/23	0932	Stephanie Hammond EEA	8/25/23	0932	

SAMPLER NAME AND SIGNATURE		Temp in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Allison Beckett				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY)		8/24/23			

2A+20

500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information			REGULATORY AGENCY		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>			NPDES		
Address: <u>3030 Warrenville Rd Ste 418</u> <u>Lisle IL 60532</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>			GROUND WATER		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No:		Address: <u>see Section A</u>			DRINKING WATER		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:			UST		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Project Manager:			RCRA		
				Profile #:			OTHER		
				Site Location		STATE:		IL	

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 <small>(see valid codes to left)</small>	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)											Project No./ Lab ID								
					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_CLOSURE_802-805	HEN_CLOSURE_804		HEN_SUP_000	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)				
1	<u>HEN_13</u>				<u>8/23/23</u>	<u>1125</u>																												<u>SHORT HOLDS-NO2</u>		
2	<u>HEN-13_FD</u>				<u>8/23/23</u>	<u>1125</u>																														
3																																				
4																																				
5																																				
6																																				
7																																				
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14																																				
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16																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>HEN-23Q3 Rev 0</u>	<u>Allison Beckett</u>	<u>8/23/23</u>	<u>1700</u>	<u>N. J. Egan</u>	<u>EETA</u>	<u>8/24/23</u>	<u>0879 33 + 2.9</u>
	<u>N. J. Egan</u>	<u>EETA</u>	<u>8/24/23</u>	<u>Stephano Hernandez</u>	<u>EETA</u>	<u>8/24/23</u>	<u>0936 29 + 0/24/23</u>

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:	<u>Allison Beckett</u>				
SIGNATURE of SAMPLER:	<u>Beckett</u>				
DATE Signed (MM/DD/YY)	<u>8/23/23</u>				

16
17



500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		REGULATORY AGENCY		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES GROUND WATER DRINKING WATER		
Address:		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST RCRA OTHER		
Email To: <u>Brian Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE IL		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		Residual Chlorine (Y/N)		
				Profile #:				

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							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_CLOSURE_802-805		HEN_CLOSURE_804	HEN_SUP_000	HEN_WPCP_East	HEN_WPCP_West					
25	HEN_52				8/24/23	0940												X		X		X										SHORT HOLD-NO2				
1																																				
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
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13																																				
14																																				
15																																				
16																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
HEN-23Q3 Rev 0	Allison Beckert EETA	8/24/23	1700	Stephanie Hernandez EETA	8/25/23	0825	Y	Y	Y
	M.J. Ellen EETA	8/25/23	0932	Stephanie Hernandez EETA	8/25/23	0930			

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				
Allison Beckert	<i>[Signature]</i>				
	DATE Signed (MM/DD/YY):				
	8/24/23				

32728

500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		REGULATORY AGENCY		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES GROUND WATER DRINKING WATER		
Address:		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST RCRA OTHER		
Email To: <u>Brian Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: <u>2285</u>		Project Manager:		Residual Chlorine (Y/N)		
				Profile #:				

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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 Y/N	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_CLOSURE_802-803	HEN_CLOSURE_804		HEN_SUP_000	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)						
1						8/28/23	1200																															
2																																						
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
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13																																						
14																																						
15																																						
16																																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	Allison Beckwith	8/28/23	1500	Theresa EETH	8/28/23	1500	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Allison Beckwith					
SIGNATURE of SAMPLER:					

1.6-713

500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		REGULATORY AGENCY	
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES: <u>GROUND WATER</u> DRINKING WATER	
Address: <u>3030 Warrenville Rd Ste 418</u> <u>Lisle IL 60532</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST: <u>RCRA</u> OTHER	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.		Address: <u>see Section A</u>		Site Location	
Phone: <u>(217) 753-8911</u> Fax		Project Name:		Quote Reference		STATE: <u>IL</u>	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Project Manager			
				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 ↓ Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab ID											
					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_CLOSURE_802-803	HEN_CLOSURE_804		HEN_SUP_000	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)							
1	<u>HEN_16</u>				<u>8/28/23</u>	<u>0835</u>										X	X							X													<u>SHORT HOLDS-NO2</u>		
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
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13																																							
14																																							
15																																							
16																																							

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: <u>Allison Beckett</u>	DATE Signed (MM/DD/YY): <u>8/28/23</u>				
SIGNATURE of SAMPLER: <u>[Signature]</u>		2.1 → 1.7			

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-22

SDG Number: HEN_845_803

Login Number: 238579

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2,2.0,2.9,0.1,1.63,0.1,3,0.5,2
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.	False	
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 <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAR-3: Episodic Depth to Groundwater Measurements
 All DTWs on SAR-3 must be collected within 24 hours.
 Plant: HEN
 Event: HEN-23Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	8/21/23	1200	41.84		CF
04R	HEN_04R	8/21/23	1035	37.08		CF
05R	HEN_05IR	8/21/23	1105	38.69		CF
05DR	HEN_05&DR	8/21/23	1115	38.73		CF
06	HEN_06	8/21/23	1140	20.8		CF
10	HEN_10	8/21/23	0955	48.28		CF
11	HEN_11	8/21/23	0950	48.33		CF
15	HEN_15	8/21/23	1030	47.19		CF
19S	HEN_19#S	8/21/23	1045	37.2		CF
19D	HEN_19&D	8/21/23	1040	37.34		CF
25	HEN_25	8/22/23	0945	19.02	* measured	CF
26	HEN_26	8/22/23	0940	13.26		CF
30	HEN_30	8/22/23	1000	4.85		CF
31	HEN_31	8/22/23	0955	4.85		CF
33	HEN_33	8/22/23	1018	2.8'		CF
36	HEN_36	8/22/23	0930	13.58		CF
40S	HEN_40#S	8/21/23	1050	37.92		CF
45S	HEN_45#S	8/21/23	1125	18.98		CF
48	HEN_48	8/21/23	1055	N/A	* could not measure due to block	CF
XPW01	HEN_XPW01_pore	8/21/23	1005	9.45		CF
XPW02	HEN_XPW02_pore	8/21/23	1010	14.19		CF
XPW03	HEN_XPW03_pore	8/21/23	1020	4.86		CF
XSG01	HEN_XSG01					
SG02	HEN_YSG_ILRIVER					

U:6/21/23 GKI

Site	Hennepin Mill			Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	9/21/23 @ 1148						
Well Number	HEN-000						
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing							
Not corroded							
Not dented							
Not cracked							
Not loose							
2. Inner casing							
Not corroded							
Not dented							
Not cracked							
Not loose							
3. Are there weep holes in outer casing?							
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?							
7. Bumper posts in good condition?							
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?							
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?							
13. No obstructions in well?							
14. No plant roots or vegetation in well?							
15. No sediment in bottom of well?							
If present, how much sediment?							
16. Installed as total depth.							
17. Measured total depth of well.							
				31.09ft			
General Condition							
18. Concrete pad installed?							
19. Concrete pad							
Slope away from casing?							
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal setting?							
21. Well clearly visible and labeled?							
Comments:							
DTW: 20:80 ft pump installed							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

Site	Hennepin, IL			Major wells repairs* required to maintain well integrity?			
Inspection Date	8/11/23 @ 10:00 AM			Yes	No	NA	
Well Number	HEN-195			<input checked="" type="checkbox"/>			
Stick-up Monitoring Wells							
1. Outer protective casing				Yes	No	NA	Comments
Not corroded					<input checked="" type="checkbox"/>		
Not dented							
Not cracked							
Not loose							
2. Inner casing				Yes	No	NA	
Not corroded					<input checked="" type="checkbox"/>		
Not dented							
Not cracked							
Not loose							
3. Are there weep holes in outer casing?							
4. Weep holes able to drain?					<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?						<input checked="" type="checkbox"/>	
6. Is there a lock present?							
7. Bumper posts in good condition?					<input checked="" type="checkbox"/>		
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?				Yes	No	NA	
9. Does the lid have a gasket that seals?						<input checked="" type="checkbox"/>	
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells							
Downhole Condition				Yes	No	NA	
12. Water level measuring point clearly marked?						<input checked="" type="checkbox"/>	
13. No obstructions in well?					<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?							
If present, how much sediment?				—			
16. Installed as total depth.				—			
17. Measured total depth of well.				39.92	ft		
General Condition							
18. Concrete pad installed?				Yes	No	NA	
19. Concrete pad				<input checked="" type="checkbox"/>			
Slope away from casing?					<input checked="" type="checkbox"/>		
Not deteriorated?							
Not heaved or below surrounding grade?					<input checked="" type="checkbox"/>		
20. No surface seal setting?							
21. Well clearly visible and labeled?				<input checked="" type="checkbox"/>			
Comments:							
DTW: 37.24 pump installed							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

Site	Hennepin, IL			Major wells repairs * required to maintain well integrity?	Yes	No	NA
Inspection Date	9/21/23 @ 1040						
Well Number	HEN-19D						
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing				Yes	No	NA	
Not corroded					X		
Not dented							
Not cracked							
Not loose							
2. Inner casing				Yes	No	NA	
Not corroded					X		
Not dented							
Not cracked							
Not loose							
3. Are there weep holes in outer casing?							
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?				X			
7. Bumper posts in good condition?				↑			
Flushmount Monitoring Wells				Yes	No	NA	
8. Can the lid be secured tightly?							
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells				Yes	No	NA	
Downhole Condition							
12. Water level measuring point clearly marked?							
13. No obstructions in well?					X		
14. No plant roots or vegetation in well?					↑		
15. No sediment in bottom of well?							
If present, how much sediment?				—			
16. Installed as total depth.				ft			
17. Measured total depth of well.				0255	ft		
General Condition				Yes	No	NA	
18. Concrete pad installed?				X			
19. Concrete pad							
Slope away from casing?					X		
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal settling?							
21. Well clearly visible and labeled?				X	↑		
Comments:							
DTW: 37.34 pump in well							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

Site HENNEPIN, IL Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 1035 to maintain well integrity? Yes No NA
 Well Number HEN-01R

Stick-up Monitoring Wells

1. Outer protective Casing	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		

2. Inner casing	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		

3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>		
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>		

Flushmount Monitoring Wells

8. Can the lid be secured tightly?		<input checked="" type="checkbox"/>		
9. Does the lid have a gasket that seals?		<input checked="" type="checkbox"/>		
10. No water in the flushmount?		<input checked="" type="checkbox"/>		
11. Is the well cap lockable?		<input checked="" type="checkbox"/>		
12. Is there a lock present?		<input checked="" type="checkbox"/>		

All Monitoring Wells

Downhole Condition	Yes	No	NA	Comments
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		
If present, how much sediment?				
16. Installed as total depth.		<input checked="" type="checkbox"/>		
17. Measured total depth of well.		<input checked="" type="checkbox"/>		

General Condition

18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad	<input checked="" type="checkbox"/>			
Slope away from casing?	<input checked="" type="checkbox"/>			
Not deteriorated?	<input checked="" type="checkbox"/>			
Not heaved or below surrounding grade?	<input checked="" type="checkbox"/>			
20. No surface seal setting?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

Pad is cracked + may need repairs 37.08 DTW

* Major well repair are those that require a subcontractor or separate mobilization to complete

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Site Hennepin TL Major wells repairs* required

Yes	No	NA
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 Inspection Date 8/21/23 to maintain well integrity?

Yes	No	NA
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 Well Number HEN-15

Stick-up Monitoring Wells

	Yes	No	NA	
1. Outer protective Casing	Yes	No	NA	Comments
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose				

2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose	Yes	No	NA	
		X		

3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?		↓	X	
6. Is there a lock present?		↓		
7. Bumper posts in good condition?		↓		

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?	Yes		X	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	

All Monitoring Wells

	Yes	No	NA	
Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?	—	ft		
16. Installed as total depth.	—	ft		
17. Measured total depth of well.	<u>50.3</u>	ft		

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	X			
Slope away from casing?		X		
Not deteriorated?				
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

contains pump! DTW: 47.19ft
 Top of dump: 56.3ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site Hennepin, IL Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 0950 to maintain well integrity?
 Well Number 11

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not corroded	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not dented	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not cracked	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not loose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

2. Inner casing	Yes	No	NA	
Not corroded	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not dented	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not cracked	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not loose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

3. Are there weep holes in outer casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Weep holes able to drain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is there a lockable cap present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Is there a lock present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
10. No water in the flushmount?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is the well cap lockable?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Is there a lock present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. No obstructions in well?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. No plant roots or vegetation in well?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. No sediment in bottom of well?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
If present, how much sediment?	—	ft		
16. Installed as total depth.	10	ft		
17. Measured total depth of well.	10	ft		

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Slope away from casing?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not deteriorated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not heaved or below surrounding grade?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20. No surface seal settling?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments: DTN: 48834

* Major well repair are those that require a subcontractor or separate mobilization to complete

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Site	HENNEPIN		
Inspection Date	8/12/23 @ 0830		
Well Number	HEN-22 & D		
Stick-up Monitoring Wells			
1. Outer protective casing	Yes	No	NA
Not corroded		X	
Not dented			
Not cracked			
Not loose			
2. Inner casing	Yes	No	NA
Not corroded		X	
Not dented			
Not cracked			
Not loose	Yes	No	NA
3. Are there weep holes in outer casing?			
4. Weep holes able to drain?			
5. Is there a lockable cap present?			
6. Is there a lock present?		X	
7. Bumper posts in good condition?		X	
Flushmount Monitoring Wells			
8. Can the lid be secured tightly?	Yes	No	NA
9. Does the lid have a gasket that seals?			
10. No water in the flushmount?			
11. Is the well cap lockable?			
12. Is there a lock present?			
All Monitoring Wells			
Downhole Condition			
12. Water level measuring point clearly marked?	Yes	No	NA
13. No obstructions in well?			X
14. No plant roots or vegetation in well?			
15. No sediment in bottom of well?			
If present, how much sediment?			
16. Installed as total depth.			
17. Measured total depth of well.			
	— ft		
	ft		
	app ft		
General Condition			
18. Concrete pad installed?	Yes	No	NA
19. Concrete pad		X	
Slope away from casing?			
Not deteriorated?			
Not heaved or below surrounding grade?			X
20. No surface seal settling?			
21. Well clearly visible and labeled?	X		
Comments:			
DTN: on app			
* Major well repair are those that require a subcontractor or separate mobilization to complete			

Major wells repairs* required to maintain well integrity?

Yes	No	NA
	X	

Comments

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____				Task #: _____				Start Date: <u>8/22/23</u>				Time: <u>0800</u>			
Field Personnel: <u>Allison Beckwith</u>				Finish Date: _____				Time: <u>1015</u>							
WELL INFORMATION						EVENT TYPE									
Well ID: <u>HEN-22D</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____									
Casing ID: <u>2</u> inches															
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	±10% Temp. (°C)	±0.1 pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	±5% or ±1 Turbidity (NTU)	±1.0 ORP (mV)	Visual Clarity				
	0819				19.1	7.56	0.712	3.04	3.87	-12.6	clear				
	0824				17.9	7.35	0.722	1.66	6.12	-68.0					
	0829				17.8	7.29	0.728	1.07	10.02	-66.0					
	0834				17.7	7.29	0.729	0.85	11.3	-72.0					
	0839	2.0			18.2	7.29	0.730	0.84	42.11	-75.7					
	0844				18.6	7.30	0.730	0.87	12.9	-79.6					
30	0849				19.0	7.30	0.731	0.85	21.43	-81.7					
40	0854				18.0	7.30	0.729	0.65	27.6	-84.1					
40	0859				17.7	7.30	0.731	0.83	26.2	-83.0					
45	0904	3.5			18.0	7.30	0.731	0.91	24.8	-82.1					
NOTES (continued)															
Samples taken @0910 Ferrrous iron: Under range @0920															
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									

P 1 of 1

Site	HENNEPIN, IL			Major wells repairs* required to maintain well integrity?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> NA
Inspection Date	8/22/23 @ 1200						
Well Number	HEN-23						
Stick-up Monitoring Wells				Comments			
1. Outer protective casing							
Not corroded				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not dented				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not cracked				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not loose				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
2. Inner casing							
Not corroded				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not dented				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not cracked				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not loose				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
3. Are there weep holes in outer casing?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
4. Weep holes able to drain?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
5. Is there a lockable cap present?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
6. Is there a lock present?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
7. Bumper posts in good condition?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA			
9. Does the lid have a gasket that seals?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA			
10. No water in the flushmount?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
11. Is the well cap lockable?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
12. Is there a lock present?				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
13. No obstructions in well?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
14. No plant roots or vegetation in well?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
15. No sediment in bottom of well?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
If present, how much sediment?				_____ ft			
16. Installed as total depth.				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
17. Measured total depth of well.				_____ ft			
General Condition							
18. Concrete pad installed?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
19. Concrete pad				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Slope away from casing?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not deteriorated?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Not heaved or below surrounding grade?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
20. No surface seal settling?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
21. Well clearly visible and labeled?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Comments:				DTW: in app			
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____			Task #: _____			Start Date: <u>8/22/23</u>			Time: <u>1040</u>						
Field Personnel: <u>Allison Beckwith</u>				Finish Date: _____				Time: <u>1210</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEC-23</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	1041				15.8	7.39	0.836	2.91	3.61	-94.6	clear				
	1040				15.7	7.40	0.836	1.32	3.75	-113.9					
	1051				15.4	7.42	0.838	0.49	3.79	-129.0					
	1050	1.5			15.5	7.37	0.837	0.35	3.80	-128.2					
	1101				15.4	7.37	0.835	0.26	5.81	-128.7					
	1100				15.2	7.39	0.835	0.21	6.69	-126.8					
	1111				15.4	7.39	0.833	0.26	7.9	-125.8					
	1110	3.0			15.0	7.40	0.832	0.18	9.1	-124.3					
NOTES (continued)								ABBREVIATIONS							
<p>Samples taken @ 1120</p> <p>Ferrous iron: Under range @ 1145</p>								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			

P 1 of 1

Site	HENNIPIN PL			Major wells repairs * required to maintain well integrity?			
Inspection Date	8/22/23 @ 1308			Yes	No	NA	
Well Number	HEN-21R				<input checked="" type="checkbox"/>		
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing				Yes	No	NA	
Not corroded					<input checked="" type="checkbox"/>		
Not dented							
Not cracked							
Not loose							
2. Inner casing				Yes	No	NA	
Not corroded					<input checked="" type="checkbox"/>		
Not dented							
Not cracked							
Not loose				Yes	No	NA	
3. Are there weep holes in outer casing?					<input checked="" type="checkbox"/>		
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?							
7. Bumper posts in good condition?							
Flushmount Monitoring Wells				Yes	No	NA	
8. Can the lid be secured tightly?							
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells				Yes	No	NA	
Downhole Condition							
12. Water level measuring point clearly marked?							
13. No obstructions in well?					<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?							
If present, how much sediment?				ft			
16. Installed as total depth.				ft			
17. Measured total depth of well.				ft			
General Condition				Yes	No	NA	
18. Concrete pad installed?					<input checked="" type="checkbox"/>		
19. Concrete pad							
Slope away from casing?					<input checked="" type="checkbox"/>		
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal settling?							
21. Well clearly visible and labeled?					<input checked="" type="checkbox"/>		
Comments:							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 1300
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1430

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-21R</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (Military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1311 <u>1311</u>				<u>17.8</u>	<u>7.56</u>	<u>0.758</u>	<u>1.17</u>	<u>59.8</u>	<u>-129.4</u>	<u>Clear</u>
	1310 <u>1310</u>				<u>17.3</u>	<u>7.54</u>	<u>0.764</u>	<u>1.22</u>	<u>58.5</u>	<u>-139.8</u>	<u>✓</u>
	1321 <u>1321</u>				<u>17.2</u>	<u>7.54</u>	<u>0.705</u>	<u>1.06</u>	<u>41.69</u>	<u>-139.9</u>	<u>Brownish</u>
	1320 <u>1320</u>				<u>17.1</u>	<u>7.53</u>	<u>0.768</u>	<u>1.16</u>	<u>33.94</u>	<u>-130.1</u>	
	<u>1331</u>	<u>2.5</u>			<u>17.9</u>	<u>7.52</u>	<u>0.765</u>	<u>0.95</u>	<u>34.3</u>	<u>-137.2</u>	
	1330 <u>1330</u>				<u>17.1</u>	<u>7.53</u>	<u>0.763</u>	<u>0.30</u>	<u>32.3</u>	<u>-134.9</u>	
	1341 <u>1341</u>	<u>3.0</u>			<u>16.6</u>	<u>7.51</u>	<u>0.712</u>	<u>0.21</u>	<u>34.8</u>	<u>-136.3</u>	

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1345</p> <p>ferrous iron: 0.916 ppm</p>	<p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p>
	<p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius</p>

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Site	HENNEPIN PL			
Inspection Date	8/22/23 @ 1:15			
Well Number	HEN-51			
	Major wells repairs* required to maintain well integrity?	Yes	No	NA
			X	

Stick-up Monitoring Wells

	Yes	No	NA	
1. Outer protective Casing	Yes	No	NA	Comments
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		

2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose	Yes	No	NA	

3. Are there weep holes in outer casing?				
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?			X	
6. Is there a lock present?		X		
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?			X	
11. Is the well cap lockable?			X	
12. Is there a lock present?			X	

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		X		
If present, how much sediment?	— ft			
16. Installed as total depth.	— ft			
17. Measured total depth of well.	— ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	X			
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			

Comments:

DTW on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>							
Project Number: _____				Task #: _____				Start Date: <u>8/22/23</u>		Time: <u>1500</u>	
Field Personnel: <u>Allison Beckler</u>				Finish Date: _____				Time: _____			
WELL INFORMATION						EVENT TYPE					
Well ID: <u>HEN-51</u>						<input type="checkbox"/> Well Development					
Casing ID: <u>2</u> inches						<input type="checkbox"/> Well Volume Approach Sampling					
						<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling					
						<input type="checkbox"/> Other (Specify): _____					
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>1506</u>				<u>18.9</u>	<u>7.45</u>	<u>0.725</u>	<u>5.56</u>	<u>10.51</u>	<u>21.3</u>	<u>Clear</u>
	<u>1511</u>				<u>17.3</u>	<u>7.30</u>	<u>0.734</u>	<u>2.38</u>	<u>12.19</u>	<u>-88.3</u>	
	<u>1516</u>				<u>16.8</u>	<u>7.32</u>	<u>0.736</u>	<u>1.26</u>	<u>11.17</u>	<u>-105.3</u>	
	<u>1521</u>	<u>1.0</u>			<u>17.1</u>	<u>7.34</u>	<u>0.737</u>	<u>0.92</u>	<u>31.84</u>	<u>-115.5</u>	
	<u>1526</u>				<u>17.1</u>	<u>7.35</u>	<u>0.735</u>	<u>0.73</u>	<u>88.2V</u>	<u>-122.1</u>	
	<u>1531</u>				<u>16.6</u>	<u>7.35</u>	<u>0.737</u>	<u>0.68</u>	<u>200.2</u>	<u>-124.5</u>	
	<u>1536</u>	<u>2.0</u>			<u>17.3</u>	<u>7.36</u>	<u>0.738</u>	<u>0.38</u>	<u>22.5</u>	<u>-126.7</u>	
	<u>1541</u>				<u>17.2</u>	<u>7.37</u>	<u>0.734</u>	<u>0.33</u>	<u>24.2</u>	<u>-127.4</u>	
	<u>1546</u>				<u>17.1</u>	<u>7.37</u>	<u>0.733</u>	<u>0.30</u>	<u>25.7</u>	<u>-127.7</u>	
	<u>1551</u>	<u>3.0</u>			<u>17.3</u>	<u>7.37</u>	<u>0.730</u>	<u>0.27</u>	<u>26.2</u>	<u>-128.0</u>	
NOTES (continued)						ABBREVIATIONS					
<p>Samples taken @ 1556</p> <p>Ferrous iron: 1.744 ppm @ 1618</p>						Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured					
						ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius					

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Site	HENNEPIN, IL			Major wells repairs* required to maintain well integrity?		Yes	No	NA	
Inspection Date	9/21/23 @ 1530						<input checked="" type="checkbox"/>		
Well Number	HFC-22								
Stick-up Monitoring Wells				Comments					
1. Outer protective casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented									
Not cracked									
Not loose									
2. Inner casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented									
Not cracked									
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?									
4. Weep holes able to drain?				<input checked="" type="checkbox"/>					
5. Is there a lockable cap present?						<input checked="" type="checkbox"/>			
6. Is there a lock present?									
7. Bumper posts in good condition?				<input checked="" type="checkbox"/>					
Flushmount Monitoring Wells				Yes	No	NA			
8. Can the lid be secured tightly?						<input checked="" type="checkbox"/>			
9. Does the lid have a gasket that seals?									
10. No water in the flushmount?									
11. Is the well cap lockable?						<input checked="" type="checkbox"/>			
12. Is there a lock present?									
All Monitoring Wells				Yes	No	NA			
12. Water level measuring point clearly marked?						<input checked="" type="checkbox"/>			
13. No obstructions in well?					<input checked="" type="checkbox"/>				
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>				
15. No sediment in bottom of well?									
If present, how much sediment?				—	ft				
16. Installed as total depth.				—	ft				
17. Measured total depth of well.				—	ft				
General Condition				Yes	No	NA			
18. Concrete pad installed?					<input checked="" type="checkbox"/>				
19. Concrete pad slope away from casing?						<input checked="" type="checkbox"/>			
Not deteriorated?						<input checked="" type="checkbox"/>			
Not heaved or below surrounding grade?						<input checked="" type="checkbox"/>			
20. No surface seal settling?						<input checked="" type="checkbox"/>			
21. Well clearly visible and labeled?						<input checked="" type="checkbox"/>			
Comments:				DTW = on app					
* Major well repair are those that require a subcontractor or separate mobilization to complete									

PROJECT INFORMATION															
Site: <u>Hennepin FC</u>						Client: <u>Ramboll</u>									
Project Number: _____			Task #: _____			Start Date: <u>8/25/23</u>			Time: <u>08:15</u>						
Field Personnel: <u>Alicia Beckert</u>						Finish Date: _____			Time: <u>09:30</u>						
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-22</u>				<input type="checkbox"/> Well Development <input checked="checked" type="checkbox"/> Low-Flow / Low Stress Sampling				<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____							
Casing ID: <u>2</u> inches															
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>0821</u>				<u>16.2</u>	<u>7.08</u>	<u>0.656</u>	<u>1.47</u>	<u>4.00</u>	<u>113.9</u>	<u>Clear</u>				
	<u>0820</u>				<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.27</u>	<u>4.10</u>	<u>92.0</u>					
	<u>0837</u>	<u>2.5</u>			<u>16.1</u>	<u>7.69</u>	<u>0.653</u>	<u>0.18</u>	<u>4.14</u>	<u>87.2</u>					
	<u>0836</u>				<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.14</u>	<u>4.20</u>	<u>79.8</u>					
	<u>0847</u>	<u>5</u>			<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.13</u>	<u>4.24</u>	<u>77.0</u>					
	<u>0846</u>	<u>5.5</u>			<u>16.1</u>	<u>7.07</u>	<u>0.653</u>	<u>0.12</u>	<u>4.31</u>	<u>77.8</u>					
NOTES (continued)								ABBREVIATIONS							
Samples taken @ 0850 Ferrrous iron sample @ 0920: under range								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site				Major wells repairs * required to maintain well integrity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection Date	4/22/23								
Well Number	4CV32								
Stick-up Monitoring Wells				Comments					
1. Outer protective casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented					<input checked="" type="checkbox"/>				
Not cracked					<input checked="" type="checkbox"/>				
Not loose					<input checked="" type="checkbox"/>				
2. Inner casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented					<input checked="" type="checkbox"/>				
Not cracked					<input checked="" type="checkbox"/>				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?					<input checked="" type="checkbox"/>				
4. Weep holes able to drain?					<input checked="" type="checkbox"/>				
5. Is there a lockable cap present?					<input checked="" type="checkbox"/>				
6. Is there a lock present?					<input checked="" type="checkbox"/>				
7. Bumper posts in good condition?					<input checked="" type="checkbox"/>				
Flushmount Monitoring Wells									
8. Can the lid be secured tightly?				Yes	No	NA			
9. Does the lid have a gasket that seals?					<input checked="" type="checkbox"/>				
10. No water in the flushmount?					<input checked="" type="checkbox"/>				
11. Is the well cap lockable?					<input checked="" type="checkbox"/>				
12. Is there a lock present?					<input checked="" type="checkbox"/>				
All Monitoring Wells									
Downhole Condition				Yes	No	NA			
12. Water level measuring point clearly marked?					<input checked="" type="checkbox"/>				
13. No obstructions in well?					<input checked="" type="checkbox"/>				
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>				
15. No sediment in bottom of well?					<input checked="" type="checkbox"/>				
If present, how much sediment?				ft					
16. Installed as total depth.				ft					
17. Measured total depth of well.				ft					
General Condition									
18. Concrete pad installed?				Yes	No	NA			
19. Concrete pad					<input checked="" type="checkbox"/>				
Slope away from casing?					<input checked="" type="checkbox"/>				
Not deteriorated?					<input checked="" type="checkbox"/>				
Not heaved or below surrounding grade?					<input checked="" type="checkbox"/>				
20. No surface seal settling?					<input checked="" type="checkbox"/>				
21. Well clearly visible and labeled?					<input checked="" type="checkbox"/>				
Comments:									
* Major well repair are those that require a subcontractor or separate mobilization to complete									

PROJECT INFORMATION											
Site: <u>HENNEPIN</u>						Client: <u>1035</u>					
Project Number: <u>2023 0711</u>				Task #: _____		Start Date: <u>8/22/23</u>				Time: <u>10:22</u>	
Field Personnel: <u>C. TREMBLAY</u>				Finish Date: _____		Time: <u>11:35</u>				Time: _____	
WELL INFORMATION						EVENT TYPE					
Well ID: <u>HEN-32</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____					
Casing ID: _____ inches											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	10% K10 Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>PRE</u>	<u>1040</u>	<u>1</u>			<u>37</u>	<u>7.1</u>	<u>31</u>	<u>10</u>	41.69	<u>+10</u>	<u>CLEAR</u>
<u>SAMPLE</u>	<u>1048</u>				<u>14.0</u>	<u>7.10</u>	<u>0.708</u>	<u>0.45</u>	<u>41.69</u>	<u>173.6</u>	
	<u>1053</u>				<u>13.9</u>	<u>7.11</u>	<u>0.716</u>	<u>0.21</u>	<u>20.60</u>	<u>165.2</u>	
	<u>1058</u>				<u>13.8</u>	<u>7.10</u>	<u>0.715</u>	<u>0.12</u>	<u>13.02</u>	<u>160.1</u>	
	<u>1103</u>	<u>3</u>			<u>13.8</u>	<u>7.10</u>	<u>0.715</u>	<u>0.09</u>	<u>8.77</u>	<u>156.9</u>	
	<u>1108</u>				<u>13.8</u>	<u>7.10</u>	<u>0.716</u>	<u>0.09</u>	<u>7.30</u>	<u>153.9</u>	
	<u>1113</u>	<u>3.25</u>			<u>13.8</u>	<u>7.07</u>	<u>0.715</u>	<u>0.08</u>	<u>5.33</u>	<u>151.7</u>	
	1118										
NOTES (continued)						ABBREVIATIONS					
<p><u>SAMPLE @ 1115</u></p> <p><u>FI UNDERWAY</u></p>						Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius					



Site Hennepin Major wells repairs* required Yes No NA
 Inspection Date 8/22/23 to maintain well integrity? Yes No NA
 Well Number 33 @ 1018

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing

	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose				

	Yes	No	NA	Comments
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?				
5. Is there a lockable cap present?			<input checked="" type="checkbox"/>	
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>		

Flushmount Monitoring Wells

	Yes	No	NA	Comments
8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>			
9. Does the lid have a gasket that seals?	<input checked="" type="checkbox"/>			
10. No water in the flushmount?	<input checked="" type="checkbox"/>			
11. Is the well cap lockable?	<input checked="" type="checkbox"/>			
12. Is there a lock present?	<input checked="" type="checkbox"/>			

All Monitoring Wells

	Yes	No	NA	Comments
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?				
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				

ft
ft
36-12ft

General Condition

	Yes	No	NA	Comments
18. Concrete pad installed?			<input checked="" type="checkbox"/>	
19. Concrete pad slope away from casing?				
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?		<input checked="" type="checkbox"/>		

Comments:

DTW 7.91
QW 22 WEL

Overturn needs

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site _____ Major wells repairs* required _____ Yes _____ No _____ NA _____
 Inspection Date 8/22/23 @ 1600 to maintain well integrity? _____
 Well Number 3D

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		

2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>		
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>		

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>	No	NA	
9. Does the lid have a gasket that seals?	<input checked="" type="checkbox"/>			
10. No water in the flushmount?	<input checked="" type="checkbox"/>			
11. Is the well cap lockable?	<input checked="" type="checkbox"/>			
12. Is there a lock present?	<input checked="" type="checkbox"/>			

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	18.6 ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	<input checked="" type="checkbox"/>			
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>		
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

PHW 4-85
PHW 4-85

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site	Major wells repairs* required to maintain well integrity?			Yes	No	NA			
Inspection Date	2/22/23 0955								
Well Number	30								
Stick-up Monitoring Wells									
1. Outer protective Casing	Yes	No	NA	Comments					
Not corroded	<input checked="" type="checkbox"/>								
Not dented									
Not cracked									
Not loose		<input checked="" type="checkbox"/>							
Flushmount Monitoring Wells									
2. Inner casing	Yes	No	NA	Comments					
Not corroded		<input checked="" type="checkbox"/>							
Not dented		<input checked="" type="checkbox"/>							
Not cracked		<input checked="" type="checkbox"/>							
Not loose	Yes	No	NA						
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>					Comments		
4. Weep holes able to drain?		<input checked="" type="checkbox"/>							
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>							
6. Is there a lock present?		<input checked="" type="checkbox"/>							
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>		Comments					
8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>	No	NA						
9. Does the lid have a gasket that seals?									
10. No water in the flushmount?									
11. Is the well cap lockable?				Comments					
12. Is there a lock present?									
All Monitoring Wells			Comments						
Downhole Condition							Comments		
12. Water level measuring point clearly marked?	Yes	No				NA			
13. No obstructions in well?		<input checked="" type="checkbox"/>							
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>							
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		Comments					
If present, how much sediment?	ft								
16. Installed as total depth.	ft								
17. Measured total depth of well.	ft	8							
General Condition									
18. Concrete pad installed?	Yes	No	NA	Comments					
19. Concrete pad	<input checked="" type="checkbox"/>								
Slope away from casing?		<input checked="" type="checkbox"/>							
Not deteriorated?		<input checked="" type="checkbox"/>							
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>							
20. No surface seal settling?		<input checked="" type="checkbox"/>							
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			Comments					
Comments:			Comments						
DTW 4.85						Comments			
* Major well repair are those that require a subcontractor or separate mobilization to complete									

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Site: HENNEPIN
 Inspection Date: 8/12/23 0945
 Well Number: HEN25

Major wells repairs* required to maintain well integrity? Yes No NA

Stick-up Monitoring Wells

	Yes	No	NA	
1. Outer protective casing	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		↓
Not dented				
Not cracked				
Not loose				
2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose	Yes	No	NA	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
3. Are there weep holes in outer casing?				
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>		
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>			

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		
If present, how much sediment?				
ft				
ft				
16. Installed as total depth.				
ft				
17. Measured total depth of well.				
ft				
15.71 ft				
w/o pump 25.21				
General Condition				
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>		
20. No surface seal setting?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments: WELL HAS PUMP * WATER SFT UP TO SURFACE NOTICED BRASS FITTING AND LEAK

* Major well repair are those that require a subcontractor or separate mobilization to complete

DTW W/LO PUMP 135

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PROJECT INFORMATION																
Site: _____				Client: _____												
Project Number: _____			Task #: _____			Start Date: <u>8/22/23</u>			Time: <u>1335</u>							
Field Personnel: <u>C. Traumbly</u>				Finish Date: _____				Time: <u>1455</u>								
WELL INFORMATION				EVENT TYPE												
Well ID: <u>25</u>		Casing ID: _____ inches		<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
PRA	1342		13.51								Cloudy					
PURGE	1348	0.25	13.51						65.57		CLEAR					
SAMPLE	1350		13.51	Ø	17.0	7.25	0.519	1.52	65.57	171.1						
	1355				16.6	7.25	0.519	1.46	42.11	171.7						
	1400				16.6	7.24	0.517	1.46	26.88	172.4						
	1405		13.51	Ø	16.6	7.24	0.516	1.48	17.97	173.8						
	1410				16.6	7.23	0.516	1.51	13.11	174.6						
	1415	3			16.6	7.23	0.516	1.52	9.47	175.2						
	1420				16.5	7.22	0.514	1.56	8.29	175.9						
	1425	4	13.51	Ø	16.6	7.22	0.514	1.59	6.43	176.5						
	1430															
NOTES (continued)							ABBREVIATIONS									
* Ø GEOTECH PUMP FL - UNDERWAY SAMPLE @ 1430							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				

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Site	HENNAPIN			Major wells repairs * required to maintain well integrity?					
Inspection Date	9/22/23	0940							
Well Number	HEN 26								
Stick-up Monitoring Wells				Comments					
1. Outer protective Casing				Yes	No	NA			
Not corroded					X				
Not dented					↓				
Not cracked					↓				
Not loose									
2. Inner casing				Yes	No	NA			
Not corroded					X				
Not dented					↓				
Not cracked					↓				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?					X				
4. Weep holes able to drain?					↓				
5. Is there a lockable cap present?					X				
6. Is there a lock present?					⊗				
7. Bumper posts in good condition?					X				
Flushmount Monitoring Wells									
8. Can the lid be secured tightly?				Yes	No	NA			
9. Does the lid have a gasket that seals?				Yes					
10. No water in the flushmount?				Yes					
11. Is the well cap lockable?				Yes					
12. Is there a lock present?				Yes					
All Monitoring Wells									
Downhole Condition									
12. Water level measuring point clearly marked?				Yes	No	NA			
13. No obstructions in well?					X				
14. No plant roots or vegetation in well?					X				
15. No sediment in bottom of well?					X				
If present, how much sediment?				ft					
16. Installed as total depth.				ft					
17. Measured total depth of well.				ft					
				29.1	ft				
General Condition									
18. Concrete pad installed?				Yes	No	NA			
19. Concrete pad					X				
Slope away from casing?					X				
Not deteriorated?					↓				
Not heaved or below surrounding grade?					X				
20. No surface seal settling?					X				
21. Well clearly visible and labeled?					X				
Comments:									
WELL HAS PUMP									
DTW 13.26									
* Major well repair are those that require a subcontractor or separate mobilization to complete									

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PROJECT INFORMATION															
Site: _____				Client: _____											
Project Number: _____			Task #: _____			Start Date: <u>8/22/23</u>			Time: <u>1455</u>						
Field Personnel: <u>TREMBLAY</u>				Finish Date: _____				Time: _____							
WELL INFORMATION					EVENT TYPE										
Well ID: <u>26</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Visual Clarity				
<u>PURGE</u>	<u>1500</u>	<u>0.1</u>	<u>13.8</u>								<u>CLEAR</u>				
<u>SAMPLE</u>	<u>1506</u>		<u>13.8</u>		<u>17.3</u>	<u>7.09</u>	<u>0.784</u>	<u>0.51</u>	<u>2.31</u>	<u>186.1</u>					
	<u>1511</u>				<u>17.2</u>	<u>7.09</u>	<u>0.784</u>	<u>0.18</u>	<u>2.37</u>	<u>183.6</u>					
	<u>1516</u>	<u>1.5</u>			<u>17.1</u>	<u>7.09</u>	<u>0.784</u>	<u>0.10</u>	<u>2.40</u>	<u>181.8</u>					
	<u>1521</u>				<u>17.0</u>	<u>7.09</u>	<u>0.785</u>	<u>0.04</u>	<u>2.41</u>	<u>179.9</u>					
	<u>1526</u>				<u>17.0</u>	<u>7.09</u>	<u>0.784</u>	<u>0.02</u>	<u>2.44</u>	<u>178.6</u>					
	<u>1531</u>	<u>3.0</u>	<u>13.9</u>	<u>-0.1</u>	<u>16.9</u>	<u>7.09</u>	<u>0.784</u>	<u>0.02</u>	<u>2.50</u>	<u>177.0</u>					
NOTES (continued)								ABBREVIATIONS							
<u>F3 UNDERG</u> <u>SAMPLE @ 1535</u>								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			

Site HENNEPIN, IL Major wells repairs* required to maintain well integrity? Yes No NA

Inspection Date 8/23/23 @ 1250 No Yes

Well Number HEN-42 NA

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing

Not corroded	Yes	No	NA	
Not dented		<input checked="" type="checkbox"/>		
Not cracked				
Not loose	Yes	No	NA	

3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?				
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?				
13. No obstructions in well?				
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad Slope away from casing?	<input checked="" type="checkbox"/>			
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: _____											
Project Number: _____			Task #: _____			Start Date: <u>8/23/23</u>			Time: <u>1855</u>						
Field Personnel: <u>Allison Beckert</u>				Finish Date: _____				Time: <u>1407</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-47</u>		Casing ID: <u>2</u> inches		<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>1501</u>				<u>22.9</u>	<u>7.96</u>	<u>0.404</u>	<u>6.05</u>	<u>3.85</u>	<u>113.7</u>	<u>clear</u>				
	<u>1506</u>				<u>21.6</u>	<u>7.03</u>	<u>0.640</u>	<u>2.36</u>	<u>3.18</u>	<u>148.2</u>	<div style="font-size: 2em;">J</div>				
	<u>1511</u>	<u>1.8</u>			<u>21.6</u>	<u>7.03</u>	<u>0.640</u>	<u>2.05</u>	<u>3.12</u>	<u>152.0</u>					
	<u>1514</u>				<u>21.6</u>	<u>7.03</u>	<u>0.639</u>	<u>1.79</u>	<u>3.02</u>	<u>154.6</u>					
	<u>1521</u>				<u>21.5</u>	<u>7.03</u>	<u>0.641</u>	<u>1.68</u>	<u>3.01</u>	<u>156.2</u>					
	<u>1526</u>	<u>2.5</u>			<u>21.5</u>	<u>7.04</u>	<u>0.639</u>	<u>1.52</u>	<u>3.20</u>	<u>155.3</u>					
NOTES (continued)								ABBREVIATIONS							
<p style="font-size: 1.5em; margin: 0;">Samples taken @ 1530</p> <p style="font-size: 1.5em; margin: 0;">Ferrous iron @ 1600 : Under range</p>								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			



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Site Hennepin Major wells repairs* required

Yes	No	NA
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Inspection Date 8/13/23 @ 1105 to maintain well integrity?

Yes	No	NA
	X	

Well Number HEN-12

Stick-up Monitoring Wells

	Yes	No	NA	
1. Outer protective casing	Yes	No	NA	Comments
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		

2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose	Yes	No	NA	
3. Are there weep holes in outer casing?			X	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?				
6. Is there a lock present?		↓		
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?			↓	

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?		X	X	
13. No obstructions in well?			X	
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad		X		
Slope away from casing?			X	
Not deteriorated?			X	
Not heaved or below surrounding grade?			↓	
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

DTW: Drapp

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/23/23 Time: 0930
 Field Personnel: Allison Bell Finish Date: _____ Time: 1040

WELL INFORMATION		EVENT TYPE	
Well ID: <u>HEM-12</u>	<input type="checkbox"/> Well Development	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling	
Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Volume Approach Sampling	<input type="checkbox"/> Other (Specify):	

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
		1038			21.3	7.81	0.551	9.73	3.92	149.6	clear
		1043			19.7	7.39	0.559	2.45	3.25	159.4	
		1048	1.5		19.6	7.35	0.559	2.01	3.10	157.1	
		1053			19.6	7.33	0.559	1.94	3.10	155.7	
		1058	2.5		19.5	7.31	0.559	1.91	3.11	155.1	
		1103			19.5	7.30	0.559	1.89	3.05	154.8	
		1108	4.0		19.5	7.30	0.558	1.88	3.0	154.1	

<p align="center">NOTES (continued)</p> <p>Samples taken @ 1010</p> <p>Ferrous iron @ 1019: Under range</p>	<p align="center">ABBREVIATIONS</p> <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p>	<p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p>

Site Hennepin 512 Major wells repairs * required to maintain well integrity? Yes No NA

Inspection Date 8/23/23 @ 8:15

Well Number HEN-410 Yes No NA

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective casing	Yes	No <input checked="" type="checkbox"/>	NA	
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing	Yes	No <input checked="" type="checkbox"/>	NA	
Not corroded				
Not dented				
Not cracked				
Not loose	Yes	No <input checked="" type="checkbox"/>	NA	
3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?				
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA <input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?	Yes	No	NA	
13. No obstructions in well?				
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?	— ft			
16. Installed as total depth.	— ft			
17. Measured total depth of well.	— ft			

General Condition

18. Concrete pad installed?	Yes <input checked="" type="checkbox"/>	No	NA	
19. Concrete pad				
Slope away from casing?				
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

DTW: ON APP

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____			Task #: _____			Start Date: <u>9/23/23</u>			Time: <u>0910</u>						
Field Personnel: <u>Allison Beckett</u>				Finish Date: <u>9/23/23</u>				Time: <u>0930</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-46</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
0	<u>0819</u>				<u>20.9</u>	<u>7.40</u>	<u>0.559</u>	<u>3.37</u>	<u>6.58</u>	<u>127.4</u>	<u>clear</u>				
	<u>0824</u>				<u>20.8</u>	<u>7.35</u>	<u>0.5100</u>	<u>2.44</u>	<u>4.01</u>	<u>142.5</u>	<u> </u>				
	<u>0829</u>				<u>20.8</u>	<u>7.35</u>	<u>0.5100</u>	<u>2.34</u>	<u>5.82</u>	<u>144.1</u>	<u> </u>				
	<u>0834</u>	<u>1.5</u>			<u>20.8</u>	<u>7.34</u>	<u>0.5100</u>	<u>2.19</u>	<u>9.84</u>	<u>144.5</u>	<u> </u>				
	<u>0839</u>				<u>20.8</u>	<u>7.34</u>	<u>0.558</u>	<u>2.06</u>	<u>14.58</u>	<u>144.3</u>	<u> </u>				
	<u>0844</u>				<u>20.8</u>	<u>7.33</u>	<u>0.558</u>	<u>1.99</u>	<u>17.95</u>	<u>143.7</u>	<u> </u>				
30	<u>0849</u>	<u>3.0</u>			<u>20.8</u>	<u>7.33</u>	<u>0.559</u>	<u>1.91</u>	<u>18.25</u>	<u>143.2</u>	<u> </u>				
					<u>20.9</u>	<u>7.33</u>	<u>0.559</u>	<u>1.85</u>	<u>18.98</u>	<u>142.2</u>	<u>↓</u>				
NOTES (continued)								ABBREVIATIONS							
<p><u>samples taken @ 0855</u></p> <p><u>Ferrous iron: Under range @ 0910</u></p>								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			

Site Hennepin, IL Major wells repairs* required to maintain well integrity?

Yes	No	NA
-----	----	----

Inspection Date 8/23/23 @ 1330

Well Number HEN-54

Yes	No	NA
-----	----	----

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective casing		X		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented				
Not cracked				
Not loose				
3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?			X	
6. Is there a lock present?		X		
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?			X	
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?				
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?				
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad slope away from casing?	X			
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments: DTN: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION 1

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/23/23 Time: 1300
 Field Personnel: Allison Beckett Finish Date: _____ Time: 1455

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-54</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1314				22.7	7.36	0.565	6.16	5.99	113.9	clear
	1319				23.0	7.32	0.574	3.58	24.10	128.2	
	1324	1.0			22.7	7.31	0.577	3.06	23.14	133.1	
	1329				22.4	7.31	0.576	2.71	19.6	131.4	
	1334				22.3	7.31	0.577	2.49	18.41	139.0	
	1339				22.4	7.30	0.577	2.40	14.50	140.2	
	1344				22.3	7.31	0.577	2.39	14.88	140.1	
	1349	2.5			22.6	7.30	0.576	2.31	13.82	141.0	

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1350</p> <p>Ferrous iron sample @ 1450: 5.371</p>	<p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p>

Site Hennepin IL Major wells repairs * required to maintain well integrity? Yes No NA

Inspection Date 9/23/23 @ 1110

Well Number HEN-13

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing	Yes	No	NA	
Not corroded	X			
Not dented		X		Oxidized & Rusty
Not cracked				
Not loose		X		

2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented				
Not cracked				
Not loose	Yes	No	NA	
		X		
3. Are there weep holes in outer casing?			X	
4. Weep holes able to drain?				
5. Is there a lockable cap present?				
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?				
11. Is the well cap lockable?			X	
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad		X		
Slope away from casing?			X	
Not deteriorated?			X	
Not heaved or below surrounding grade?			X	
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

DRW - DR opp

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____				Task #: _____				Start Date: <u>8/23/23</u>		Time: <u>1055</u>					
Field Personnel: <u>Allison Belkett</u>				Finish Date: _____				Time: <u>1255</u>							
WELL INFORMATION						EVENT TYPE									
Well ID: <u>HEN-13</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____									
Casing ID: <u>2</u> inches															
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>1057</u>				<u>21.5</u>	<u>7.33</u>	<u>0.552</u>	<u>1.30</u>	<u>3.19</u>	<u>152.0</u>	<u>Clear</u>				
	<u>1102</u>				<u>21.0</u>	<u>7.37</u>	<u>0.502</u>	<u>3.07</u>	<u>3.18</u>	<u>152.7</u>					
	<u>1107</u>	<u>1.00</u>			<u>21.0</u>	<u>7.38</u>	<u>0.503</u>	<u>3.47</u>	<u>3.19</u>	<u>151.1</u>					
	<u>1112</u>				<u>21.0</u>	<u>7.38</u>	<u>0.503</u>	<u>2.33</u>	<u>3.20</u>	<u>149.9</u>					
	<u>1117</u>				<u>21.0</u>	<u>7.39</u>	<u>0.503</u>	<u>2.23</u>	<u>3.21</u>	<u>149.9</u>					
	<u>1122</u>	<u>2.0</u>			<u>21.4</u>	<u>7.39</u>	<u>0.503</u>	<u>2.10</u>	<u>3.05</u>	<u>150.2</u>	<u>↓</u>				
NOTES (continued)								ABBREVIATIONS							
<p><u>Samples taken @ 1125</u></p> <p><u>Ferrous iron @ 1145: Under range</u></p> <p><u>dupe @ 1125</u></p>								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			



Site _____ Major wells repairs* required _____ Yes No NA
 Inspection Date 7/03/23 to maintain well integrity? _____ Yes No NA
 Well Number 187

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing

	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose				

3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?				
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	Comments
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?				
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad		<input checked="" type="checkbox"/>		
Slope away from casing?				
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: _____			Client: _____			Project Number: <u>2023-074</u>			Task #: _____						
Field Personnel: <u>TRENBERG</u>			Start Date: <u>8/23/23</u>			Time: <u>1318</u>			Finish Date: _____						
Time: <u>1435</u>															
WELL INFORMATION						EVENT TYPE									
Well ID: <u>14D</u>						<input type="checkbox"/> Well Development <input type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: _____ inches						<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>PURGE</u>															
	<u>1330</u>	<u>0.1</u>									<u>CLEAR</u>				
	<u>1333</u>				<u>21.3</u>	<u>7.22</u>	<u>0.692</u>	<u>2.84</u>	<u>15.81</u>	<u>169.2</u>					
	<u>1338</u>				<u>21.3</u>	<u>7.17</u>	<u>0.688</u>	<u>0.78</u>	<u>6.81</u>	<u>79.1</u>					
	<u>1343</u>	<u>1.5</u>			<u>21.2</u>	<u>7.17</u>	<u>0.684</u>	<u>0.33</u>	<u>10.25</u>	<u>72.2</u>					
	<u>1348</u>				<u>21.2</u>	<u>7.17</u>	<u>0.684</u>	<u>0.18</u>	<u>11.18</u>	<u>71.7</u>					
	<u>1353</u>				<u>21.1</u>	<u>7.18</u>	<u>0.684</u>	<u>0.17</u>	<u>10.44</u>	<u>68.3</u>					
	<u>1358</u>	<u>2</u>			<u>21.2</u>	<u>7.18</u>	<u>0.685</u>	<u>0.17</u>	<u>10.26</u>	<u>68.2</u>					
NOTES (continued)								ABBREVIATIONS							
<p><u>SAMPLE @ 1405</u></p> <p><u>F1 - UNDER</u></p>								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			



Site	HENNEPIN, IL			Major wells repairs* required to maintain well integrity?							
Inspection Date	8/21/23 @ 11:15			Yes	No	NA					
Well Number	HEN-05DP			<input checked="" type="checkbox"/>							
Stick-up Monitoring Wells											
1. Outer protective Casing	Yes	No	NA	Comments							
Not corroded		<input checked="" type="checkbox"/>									
Not dented											
Not cracked											
Not loose											
2. Inner casing	Yes	No	NA								
Not corroded		<input checked="" type="checkbox"/>									
Not dented											
Not cracked											
Not loose											
3. Are there weep holes in outer casing?	Yes	No	NA								
4. Weep holes able to drain?		<input checked="" type="checkbox"/>									
5. Is there a lockable cap present?											
6. Is there a lock present?		<input checked="" type="checkbox"/>									
7. Bumper posts in good condition?											
Flushmount Monitoring Wells											
8. Can the lid be secured tightly?	Yes	No	NA								
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>								
10. No water in the flushmount?											
11. Is the well cap lockable?											
12. Is there a lock present?											
All Monitoring Wells											
Downhole Condition											
12. Water level measuring point clearly marked?	Yes	No	NA								
13. No obstructions in well?		<input checked="" type="checkbox"/>									
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>									
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>									
If present, how much sediment?	— ft										
16. Installed as total depth.	ft										
17. Measured total depth of well.	108.0 ft										
General Condition											
18. Concrete pad installed?	Yes	No	NA								
19. Concrete pad Slope away from casing?	<input checked="" type="checkbox"/>										
Not deteriorated?		<input checked="" type="checkbox"/>									
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>									
20. No surface seal settling?											
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>										
Comments:											
DW 3879 PMP installed											
* Major well repair are those that require a subcontractor or separate mobilization to complete											

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PROJECT INFORMATION													
Site: <u>HENNEPIN</u>				Client: _____									
Project Number: <u>2023 0711</u>				Task #: _____				Start Date: <u>8/23/23</u>		Time: <u>1155</u>			
Field Personnel: <u>C. Tremblay</u>				Finish Date: _____				Time: <u>1305</u>					
WELL INFORMATION						EVENT TYPE							
Well ID: <u>OS DR</u>						<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling					
Casing ID: _____ inches						<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____					
WATER QUALITY INDICATOR PARAMETERS (continued)													
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity		
<u>PRE</u>	<u>1155</u>	0.75	<u>38.73</u>	<u>0</u>									
<u>PURGE</u>	<u>1205</u>	0.75	<u>38.73</u>	<u>0</u>							<u>Clear</u>		
	<u>1210</u>	<u>0.75</u>	<u>38.73</u>	<u>0</u>	<u>21.2</u>	<u>7.41</u>	<u>0.632</u>	<u>0.77</u>	<u>2.81</u>	<u>169.5</u>			
	<u>1215</u>		<u>38.73</u>	<u>0</u>	<u>20.6</u>	<u>7.41</u>	<u>0.631</u>	<u>0.28</u>	<u>2.54</u>	<u>167.7</u>			
	<u>1220</u>		<u>38.73</u>	<u>0</u>	<u>20.6</u>	<u>7.42</u>	<u>0.631</u>	<u>0.20</u>	<u>2.67</u>	<u>165.1</u>			
	<u>1225</u>	<u>1.25</u>	<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.18</u>	<u>2.23</u>	<u>163.5</u>			
	<u>1230</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.16</u>	<u>2.35</u>	<u>161.7</u>			
	<u>1235</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.15</u>	<u>2.51</u>	<u>160.2</u>			
	<u>1240</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.15</u>	<u>2.12</u>	<u>158.8</u>			
NOTES (continued)								ABBREVIATIONS					
<u>SAMPLE @ - 1145</u> <u>FI - HAND RING</u>								Cond. - Actual Conductivity				ORP - Oxidation-Reduction Potential	
								FT BTOC - Feet Below Top of Casing				SEC - Specific Electrical Conductance	
								Temp - Temperature					
								*C - Degrees Celsius					

Site	Hennepin #12			Major wells repairs* required to maintain well integrity?							
Inspection Date	8/21/23 @ 1105			Yes	No	NA					
Well Number	HEN-05R				<input checked="" type="checkbox"/>						
Stick-up Monitoring Wells											
1. Outer protective Casing	Yes	No	NA	Comments							
Not corroded		<input checked="" type="checkbox"/>									
Not dented											
Not cracked											
Not loose		<input checked="" type="checkbox"/>									
Flushmount Monitoring Wells											
2. Inner casing	Yes	No	NA	Comments							
Not corroded		<input checked="" type="checkbox"/>									
Not dented											
Not cracked											
Not loose		<input checked="" type="checkbox"/>									
3. Are there weep holes in outer casing?											
4. Weep holes able to drain?											
5. Is there a lockable cap present?											
6. Is there a lock present?											
7. Bumper posts in good condition?											
Flushmount Monitoring Wells											
8. Can the lid be secured tightly?	Yes	No	NA	Comments							
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>								
10. No water in the flushmount?											
11. Is the well cap lockable?											
12. Is there a lock present?											
All Monitoring Wells											
Downhole Condition											
12. Water level measuring point clearly marked?	Yes	No	NA	Comments							
13. No obstructions in well?		<input checked="" type="checkbox"/>									
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>									
15. No sediment in bottom of well?											
If present, how much sediment?											
16. Installed as total depth.											
17. Measured total depth of well.											
	ft										
	ft										
	410.05 ft										
General Condition											
18. Concrete pad installed?	Yes	No	NA	Comments							
19. Concrete pad	<input checked="" type="checkbox"/>										
Slope away from casing?		<input checked="" type="checkbox"/>									
Not deteriorated?											
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>									
20. No surface seal settling?											
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>										
Comments:											
DTW:38.00 pmp installed											

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennep2U</u>						Client: _____									
Project Number: <u>2023-0761</u>				Task #: _____		Start Date: <u>8/23/23</u>				Time: <u>1036</u>					
Field Personnel: <u>C. TREMBLY</u>				Finish Date: _____		Time: <u>1150</u>									
WELL INFORMATION					EVENT TYPE										
Well ID: <u>05R</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
PURGE	1036		38.69												
PURGE	1042	0.1	38.69	Q			0.646	1.60	27.51	112.9	CLEAR				
SAMPLE	1048	0.5	38.69	Q	20.6	7.61	0.646	1.60	27.51	112.9	↓				
	1053		38.69	Q	20.6	7.61	0.644	0.36	18.70	136.8					
	1058		38.69	Q	20.5	7.61	0.643	0.23	12.41	141.0					
	1103	1.25	38.69	Q	20.8	7.61	0.643	0.19	8.77	142.8					
	1108		38.69	Q	20.6	7.61	0.644	0.17	7.00	143.7					
	1113		38.69	Q	20.8	7.61	0.643	0.15	5.15	144.0					
	1118	2.5	38.69	Q	20.6	7.61	0.645	0.14	4.41	144.2					
	1123				20.3	7.62	0.644	0.14	3.55	144.2					
NOTES (continued)								ABBREVIATIONS							
SAMPLE@ - 1130 FI - 0.806 ppm								Cond. - Actual Conductivity				ORP - Oxidation-Reduction Potential			
								FT BTOC - Feet Below Top of Casing				SEC - Specific Electrical Conductance			
								na - Not Applicable				SU - Standard Units			
								nm - Not Measured				Temp - Temperature			
												°C - Degrees Celsius			

Site	HENNEPIN II			Major wells repairs* required to maintain well integrity?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA
Inspection Date	8/21/23 @ 1055						
Well Number	HEN-48						
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing				Yes	No	NA	
Not corroded				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not dented				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPACE DEUT
Not cracked				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WELL IS LOOSE
Not loose				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Inner casing				Yes	No	NA	
Not corroded				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not dented				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not cracked				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INNER CASE CRACKED
Not loose				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are there weep holes in outer casing?				Yes	No	NA	
4. Weep holes able to drain?				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is there a lockable cap present?				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is there a lock present?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Bumper posts in good condition?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Flushmount Monitoring Wells				Yes	No	NA	
8. Can the lid be secured tightly?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
10. No water in the flushmount?				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is the well cap lockable?				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Is there a lock present?				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All Monitoring Wells				Yes	No	NA	
Downhole Condition				Yes	No	NA	
12. Water level measuring point clearly marked?				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. No obstructions in well?				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CRACKED WELLS
14. No plant roots or vegetation in well?				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. No sediment in bottom of well?				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If present, how much sediment?				ft	ft	ft	
16. Installed as total depth.				ft	ft	ft	
17. Measured total depth of well.				ft	ft	ft	
General Condition				Yes	No	NA	
18. Concrete pad installed?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19. Concrete pad Slope away from casing?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Not deteriorated?				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not heaved or below surrounding grade?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20. No surface seal settling?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21. Well clearly visible and labeled?				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				LOOSE NOT TAKE WATER LEVEL READING DUE TO BLOCKAGE			
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION															
Site: <u>HEMPEN</u>				Client: _____											
Project Number: <u>2023 021</u>				Task #: _____				Start Date: <u>8/23/23</u>		Time: <u>0931</u>					
Field Personnel: <u>[Signature]</u>				Finish Date: _____				Time: <u>1030</u>							
WELL INFORMATION						EVENT TYPE									
Well ID: <u>48</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____									
Casing ID: _____ inches															
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
0937															
PURGE	0937	0.11			20.9	7.63	0.601	1.93	5.23	163.4	CLEAR				
SAMPLE	0943	0.75			20.9	7.63	0.601	1.93	5.23	163.4	↓				
	0948				20.8	7.62	0.590	0.50	4.37	160.2					
	0953				20.7	7.62	0.589	0.24	3.28	157.0					
	0958				20.5	7.62	0.589	0.18	2.71	154.3					
	1003	2.25			20.7	7.62	0.589	0.15	2.22	152.0					
	1008				20.7	7.62	0.589	0.13	2.30	150.3					
	1013				20.7	7.62	0.589	0.12	2.09	148.7					
	1018	3			20.8	7.62	0.589	0.11	2.01	147.4					
NOTES (continued)								ABBREVIATIONS							
* WELL HAS OBSTRUCTION INSIDE CASING. COULD NOT MEASURE WATER SAMPLE @ - 1020 FI - UNDERWAY								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

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Site	Hennepin, IL			Major wells repairs * required to maintain well integrity?		Yes	No	NA
Inspection Date	8/21/23 @ 1050							
Well Number	HEN-405						<input checked="" type="checkbox"/>	

Stick-up Monitoring Wells								
1. Outer protective casing	Yes	No	NA					
Not corroded		<input checked="" type="checkbox"/>						
Not dented								
Not cracked								
Not loose								
2. Inner casing	Yes	No	NA					
Not corroded		<input checked="" type="checkbox"/>						
Not dented								
Not cracked								
Not loose								
3. Are there weep holes in outer casing?								
4. Weep holes able to drain?								
5. Is there a lockable cap present?								
6. Is there a lock present?								
7. Bumper posts in good condition?								
Flushmount Monitoring Wells								
8. Can the lid be secured tightly?	Yes	No	NA					
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>					
10. No water in the flushmount?								
11. Is the well cap lockable?								
12. Is there a lock present?								
All Monitoring Wells								
Downhole Condition								
12. Water level measuring point clearly marked?	Yes	No	NA					
13. No obstructions in well?		<input checked="" type="checkbox"/>						
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>						
15. No sediment in bottom of well?								
If present, how much sediment?								
16. Installed as total depth.								
— ft								
30.92ft								
17. Measured total depth of well.								
General Condition								
18. Concrete pad installed?	Yes	No	NA					
19. Concrete pad	<input checked="" type="checkbox"/>							
Slope away from casing?		<input checked="" type="checkbox"/>						
Not deteriorated?								
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>						
20. No surface seal settling?								
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>							
Comments:	37.92'							
	DTW: 30.92 37.92ft Pump installed							

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION																
Site: <u>HEN-845-803</u>			Client: _____													
Project Number: <u>2023 0711</u>			Task #: _____			Start Date: <u>8/23/23</u>			Time: <u>0820</u>							
Field Personnel: <u>C. TREMBLAY</u>			Finish Date: _____			Time: <u>0919</u>			_____							
WELL INFORMATION					EVENT TYPE											
Well ID: <u>405</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
PRE	0832		37.92	0												
PURGE	0836	0.1	37.92	0							CLEAR					
SAMPLE	0841		37.92	0	19.0	7.89	0.581	2.20	4.25	147.6	↓					
	0846	1.5	37.92	0	18.8	7.89	0.579	0.41	3.29	143.4						
	0851		37.92	0	19.7	7.88	0.579	0.44	2.58	139.1						
	0856		37.92	0	18.7	7.88	0.579	0.37	2.16	135.7						
	0901	2:79		37.92	0	18.8	7.88	0.579	0.37	2.13		133.5				
NOTES (continued)							ABBREVIATIONS									
<p>SAMPLE @ 0905 FI - HAND PUMP</p>							Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured					ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius				

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Site	HENNEPIN			Major wells repairs* required to maintain well integrity?		Yes	No	NA	
Inspection Date	Q124 123								
Well Number	RCR 35								
Stick-up Monitoring Wells				Comments					
1. Outer protective Casing				Yes	No	NA			
Not corroded					X				
Not dented					↑				
Not cracked					↑				
Not loose					↑				
2. Inner casing				Yes	No	NA			
Not corroded					X				
Not dented					↑				
Not cracked					↑				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?					X				
4. Weep holes able to drain?					X				
5. Is there a lockable cap present?					X				
6. Is there a lock present?					X				
7. Bumper posts in good condition?					X				
Flushmount Monitoring Wells									
8. Can the lid be secured tightly?				Yes	No	NA			
						X			
9. Does the lid have a gasket that seals?									
10. No water in the flushmount?									
11. Is the well cap lockable?									
12. Is there a lock present?									
All Monitoring Wells									
Downhole Condition									
12. Water level measuring point clearly marked?				Yes	No	NA			
					X				
13. No obstructions in well?					X				
14. No plant roots or vegetation in well?					X				
15. No sediment in bottom of well?					X				
If present, how much sediment?				ft					
16. Installed as total depth.				ft					
17. Measured total depth of well.				ft					
General Condition									
18. Concrete pad installed?				Yes	No	NA			
				X					
19. Concrete pad					X				
Slope away from casing?					X				
Not deteriorated?					X				
Not heaved or below surrounding grade?					X				
20. No surface seal settling?					X				
21. Well clearly visible and labeled?				X					
Comments:									

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: _____			Client: _____			Project Number: _____			Task #: _____		
Field Personnel: <u>TREMBLAY</u>			Start Date: <u>8/24</u>			Time: <u>0930</u>			Finish Date: _____		
Time: _____			Time: <u>1038</u>								
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN 35</u>				<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling					
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>PURGE</u>	<u>0940</u>	<u>0.1</u>			<u>+3%</u>	<u>+1</u>	<u>3%</u>	<u>10%</u>	<u>10%</u>	<u>+10</u>	<u>CLEAR</u>
<u>SAMPLE</u>	<u>0946</u>				<u>16.5</u>	<u>7.10</u>	<u>0.926</u>	<u>8.22</u>	<u>14.30</u>	<u>159.9</u>	
	<u>0951</u>				<u>16.2</u>	<u>7.04</u>	<u>0.918</u>	<u>6.78</u>	<u>15.97</u>	<u>169.8</u>	
	<u>0956</u>	<u>1.0</u>			<u>16.3</u>	<u>7.03</u>	<u>1.369</u>	<u>2.16</u>	<u>7.70</u>	<u>163.8</u>	
	<u>1001</u>				<u>16.2</u>	<u>7.03</u>	<u>1.378</u>	<u>1.87</u>	<u>2.67</u>	<u>162.0</u>	
	<u>1006</u>	<u>2.0</u>			<u>16.2</u>	<u>7.03</u>	<u>1.358</u>	<u>1.47</u>	<u>2.81</u>	<u>161.7</u>	
	<u>1011</u>										
NOTES (continued)						ABBREVIATIONS					
<u>FR - UNDER UNDER</u> <u>SAMPLE @ 1010</u>						Cond. - Actual Conductivity					
						FT BTOC - Feet Below Top of Casing					
						na - Not Applicable					
						nm - Not Measured					
						ORP - Oxidation-Reduction Potential					
						SEC - Specific Electrical Conductance					
						SU - Standard Units					
						Temp - Temperature					
						°C - Degrees Celcius					

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Site	845 HENNEPIN PL			Major wells repairs * required to maintain well integrity?	Yes	No	NA
Inspection Date	8/24/23						
Well Number	HEN-52						
Stick-up Monitoring Wells				Comments			
1. Outer protective casing				Yes	No	NA	
Not corroded					X		
Not dented							
Not cracked							
Not loose					X		
2. Inner casing				Yes	No	NA	
Not corroded					X		
Not dented					X		
Not cracked							
Not loose				Yes	No	NA	
3. Are there weep holes in outer casing?					X		
4. Weep holes able to drain?						X	
5. Is there a lockable cap present?							
6. Is there a lock present?							
7. Bumper posts in good condition?							
Flushmount Monitoring Wells				Yes	No	NA	
8. Can the lid be secured tightly?						X	
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells				Yes	No	NA	
Downhole Condition							
12. Water level measuring point clearly marked?				Yes			
13. No obstructions in well?					X		
14. No plant roots or vegetation in well?							
15. No sediment in bottom of well?					X		
If present, how much sediment?							
16. Installed as total depth.							
17. Measured total depth of well.							
General Condition				Yes	No	NA	
18. Concrete pad installed?				Yes			
19. Concrete pad					X		
Slope away from casing?							
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal settling?					X		
21. Well clearly visible and labeled?				X			
Comments:							
DTW: on app							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

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PROJECT INFORMATION																
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>												
Project Number: _____			Task #: _____			Start Date: <u>8/24/23</u>			Time: <u>0905</u>							
Field Personnel: <u>Allison Beckert</u>				Finish Date: _____				Time: <u>1020</u>								
WELL INFORMATION				EVENT TYPE												
Well ID: <u>HEN-S2</u>				<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling				<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____								
Casing ID: <u>2</u> inches																
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
0	0909				21.5	7.10	0.035	7.57	5.56	147.7	clear					
	0914				23.6	7.01	0.005	2.2 2.0	5.95	152.3	↓					
	0919	1.0			23.8	7.06	0.009	1.39	4.68	149.7	↓					
	0924				23.9	7.05	0.012	1.21	4.27	147.2	↓					
	0929	2.0			23.9	7.04	0.013	1.03	4.25	146.5	↓					
25	0934				24.0	7.04	0.014	1.96	4.08	145.8	↓					
NOTES (continued)							ABBREVIATIONS									
<p>Samples taken @ 0940</p> <p>Ferrous iron @ 1011: Under range</p>							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				

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Site	HENNEPIN, IL			Major wells repairs* required to maintain well integrity?			
Inspection Date	9/24/23 @ 1400						
Well Number	HEN-8D						

Slick-up Monitoring Wells							
1. Outer protective Casing	Yes	No	NA				Comments
Not corroded		<input checked="" type="checkbox"/>					
Not dented		<input checked="" type="checkbox"/>					
Not cracked		<input checked="" type="checkbox"/>					
Not loose		<input checked="" type="checkbox"/>					
2. Inner casing	Yes	No	NA				
Not corroded		<input checked="" type="checkbox"/>					
Not dented		<input checked="" type="checkbox"/>					
Not cracked		<input checked="" type="checkbox"/>					
Not loose	Yes	No	NA				
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>					
4. Weep holes able to drain?		<input checked="" type="checkbox"/>					
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>					
6. Is there a lock present?		<input checked="" type="checkbox"/>					
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>					
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?	Yes	No	NA				
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>				
10. No water in the flushmount?			<input checked="" type="checkbox"/>				
11. Is the well cap lockable?			<input checked="" type="checkbox"/>				
12. Is there a lock present?			<input checked="" type="checkbox"/>				
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?	Yes	No	NA				
13. No obstructions in well?		<input checked="" type="checkbox"/>					
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>					
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>					
If present, how much sediment?	ft						
16. Installed as total depth.	ft						
17. Measured total depth of well.	ft						
General Condition							
18. Concrete pad installed?	Yes	No	NA				
19. Concrete pad	<input checked="" type="checkbox"/>						
Slope away from casing?		<input checked="" type="checkbox"/>					
Not deteriorated?		<input checked="" type="checkbox"/>					
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>					
20. No surface seal setting?		<input checked="" type="checkbox"/>					
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>						
Comments:							
DIVISION APP							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: ~~1140~~
 Field Personnel: Allison Beckwith Finish Date: _____ Time: 1311

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-8&D</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>1154</u>				<u>18.7</u>	<u>7.03</u>	<u>1.330</u>	<u>0.45</u>	<u>4.29</u>	<u>182.5</u>	<u>clear</u>
	<u>1159</u>				<u>17.7</u>	<u>6.04</u>	<u>1.420</u>	<u>2.00</u>	<u>4.88</u>	<u>193.7</u>	
	<u>1204</u>				<u>17.7</u>	<u>6.58</u>	<u>1.433</u>	<u>0.98</u>	<u>5.34</u>	<u>194.0</u>	
	<u>1209</u>	<u>1.0</u>			<u>17.4</u>	<u>6.58</u>	<u>1.430</u>	<u>0.70</u>	<u>4.10</u>	<u>193.0</u>	
	<u>1214</u>				<u>17.5</u>	<u>6.58</u>	<u>1.432</u>	<u>0.75</u>	<u>4.57</u>	<u>192.4</u>	
	<u>1219</u>	<u>2.0</u>			<u>17.3</u>	<u>6.59</u>	<u>1.435</u>	<u>0.03</u>	<u>4.32</u>	<u>192.0</u>	

NOTES (continued)	ABBREVIATIONS
<p><u>Samples taken @ 1225</u></p> <p><u>Ferrous iron sample @ 1232: under range</u></p>	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



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Site	HENNRP.D.P. IL			Major wells repairs* required to maintain well integrity?			
Inspection Date	8/24/23 1355			Yes	No	NA	
Well Number	HEN-07			X			
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing				Yes	No	NA	
Not corroded					X		
Not dented							
Not cracked							
Not loose							
2. Inner casing				Yes	No	NA	
Not corroded					X		
Not dented							
Not cracked							
Not loose							
3. Are there weep holes in outer casing?				Yes	No	NA	
4. Weep holes able to drain?					X		
5. Is there a lockable cap present?						X	
6. Is there a lock present?							
7. Bumper posts in good condition?							
				X			
				↖			
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?				Yes	No	NA	
9. Does the lid have a gasket that seals?						X	
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
						X	
						↖	
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?				Yes	No	NA	
13. No obstructions in well?						X	
14. No plant roots or vegetation in well?					X		
15. No sediment in bottom of well?							
If present, how much sediment?							
16. Installed as total depth.				ft			
17. Measured total depth of well.				ft			
				ft			
				ft			
General Condition							
18. Concrete pad installed?				Yes	No	NA	
19. Concrete pad					X		
Slope away from casing?							
Not deteriorated?						X	
Not heaved or below surrounding grade?							
20. No surface seal setting?						X	
21. Well clearly visible and labeled?							
Comments:							
DNV on app							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION											
Site: <u>Hennepin J2</u>				Client: _____							
Project Number: _____				Task #: _____				Start Date: <u>8/24/23</u>		Time: <u>1320</u>	
Field Personnel: <u>Allison Beckett</u>				Finish Date: _____				Time: <u>1430</u>			
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-07</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>1332</u>				<u>14.4</u>	<u>6.98</u>	<u>0.727</u>	<u>5.73</u>	<u>5.16</u>	<u>144.3</u>	<u>clear</u>
	<u>1337</u>				<u>14.0</u>	<u>6.97</u>	<u>0.698</u>	<u>4.25</u>	<u>4.45</u>	<u>174.5</u>	
	<u>1342</u>	<u>2.0</u>			<u>13.9</u>	<u>6.94</u>	<u>0.701</u>	<u>4.20</u>	<u>4.09</u>	<u>170.4</u>	
	<u>1347</u>				<u>13.9</u>	<u>6.94</u>	<u>0.700</u>	<u>4.16</u>	<u>3.85</u>	<u>178.7</u>	
	<u>1352</u>	<u>3.0</u>			<u>13.8</u>	<u>6.93</u>	<u>0.699</u>	<u>4.16</u>	<u>3.57</u>	<u>179.6</u>	
	<u>1357</u>				<u>13.8</u>	<u>6.91</u>	<u>0.699</u>	<u>4.15</u>	<u>3.55</u>	<u>179.9</u>	
NOTES (continued) samples taken @ 1400 Ferrrous iron sample @ 1430: under range								ABBREVIATIONS Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

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Site	Hennepin, IL			Major wells repairs * required to maintain well integrity?		Yes	No	NA	
Inspection Date	8/24/23 @ 1452								
Well Number	HEN-08								
Stick-up Monitoring Wells				Comments					
1. Outer protective casing				Yes	No	NA			
Not corroded					X				
Not dented									
Not cracked									
Not loose									
2. Inner casing				Yes	No	NA			
Not corroded					X				
Not dented									
Not cracked					I				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?									
4. Weep holes able to drain?						X			
5. Is there a lockable cap present?									
6. Is there a lock present?									
7. Bumper posts in good condition?									
Flushmount Monitoring Wells				Yes	No	NA			
8. Can the lid be secured tightly?						X			
9. Does the lid have a gasket that seals?									
10. No water in the flushmount?									
11. Is the well cap lockable?									
12. Is there a lock present?						I			
All Monitoring Wells				Yes	No	NA			
12. Water level measuring point clearly marked?									
13. No obstructions in well?						X			
14. No plant roots or vegetation in well?									
15. No sediment in bottom of well?									
If present, how much sediment?									
16. Installed as total depth.									
17. Measured total depth of well.									
General Condition				Yes	No	NA			
18. Concrete pad installed?					X				
19. Concrete pad									
Slope away from casing?						X			
Not deteriorated?									
Not heaved or below surrounding grade?						I			
20. No surface seal settling?									
21. Well clearly visible and labeled?				X					
Comments:				DFW: DA APP					
* Major well repair are those that require a subcontractor or separate mobilization to complete									

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Rambot</u>											
Project Number: _____				Task #: _____				Start Date: <u>8/24/24</u>		Time: <u>1435</u>					
Field Personnel: <u>Allison Bell</u>				Finish Date: _____				Time: <u>1620</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>08</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>1443</u>				<u>14.7</u>	<u>6.62</u>	<u>1.228</u>	<u>1.54</u>	<u>3.85</u>	<u>197.1</u>	<u>Clear</u>				
	<u>1449</u>				<u>14.6</u>	<u>6.58</u>	<u>1.239</u>	<u>1.30</u>	<u>3.61</u>	<u>194.1</u>					
	<u>1453</u>	<u>2.5</u>			<u>14.7</u>	<u>6.69</u>	<u>1.239</u>	<u>1.22</u>	<u>3.53</u>	<u>188.9</u>					
	<u>1458</u>				<u>14.6</u>	<u>6.69</u>	<u>1.243</u>	<u>1.19</u>	<u>3.50</u>	<u>188.1</u>					
	<u>1503</u>				<u>14.6</u>	<u>6.72</u>	<u>1.244</u>	<u>1.17</u>	<u>3.49</u>	<u>188.6</u>					
	<u>1508</u>				<u>14.7</u>	<u>6.72</u>	<u>1.241</u>	<u>1.16</u>	<u>3.49</u>	<u>188.6</u>					
NOTES (continued)								ABBREVIATIONS							
<p>Samples taken @ 1510</p> <p>Ferrous iron sampled @ 1530: Under range</p> <p>dupe @ 1510</p>								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			

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Site _____ Major wells repairs* required _____ Yes _____ No NA _____
 to maintain well integrity? _____

Inspection Date 8/29/23
 Well Number 27

Slick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

	Yes	No	NA	Comments
2. Inner casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

	Yes	No	NA	Comments
3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?			<input checked="" type="checkbox"/>	
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>		

Flushmount Monitoring Wells

	Yes	No	NA	Comments
8. Can the lid be secured tightly?				
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

	Yes	No	NA	Comments
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?				
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
ft				
16. Installed as total depth.				
ft				
17. Measured total depth of well.				
ft				

General Condition

	Yes	No	NA	Comments
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>		
20. No surface seal settling?				
21. Well clearly visible and labeled?		<input checked="" type="checkbox"/>		

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: _____				Client: _____											
Project Number: _____			Task #: _____			Start Date: <u>8/24</u>			Time: <u>0820</u>						
Field Personnel: <u>TRUMBAY</u>				Finish Date: _____				Time: <u>0921</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>W-27</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
0824															
PURGE SAMPLE	<u>0824</u>	<u>0.1</u>									<u>CLEAR</u>				
	<u>0828</u>				<u>12.9</u>	<u>7.21</u>	<u>0.819</u>	<u>0.50</u>	<u>13.75</u>	<u>0.1</u>					
	<u>0833</u>	<u>1</u>			<u>13.0</u>	<u>7.22</u>	<u>0.817</u>	<u>0.09</u>	<u>25.15</u>	<u>-20.3</u>					
	<u>0939</u>				<u>13.5</u>	<u>7.24</u>	<u>0.813</u>	<u>0.04</u>	<u>45.33</u>	<u>-29.8</u>					
	<u>0943</u>				<u>12.8</u>	<u>7.32</u>	<u>0.816</u>	<u>0.04</u>	<u>46.72</u>	<u>-31.5</u>					
	<u>0848</u>	<u>2.75</u>			<u>12.4</u>	<u>7.33</u>	<u>0.816</u>	<u>0.06</u>	<u>47.09</u>	<u>-32.9</u>					
	<u>0853</u>	<u>3.0</u>			<u>12.5</u>	<u>7.23</u>	<u>0.816</u>	<u>0.07</u>	<u>48.81</u>	<u>-33.7</u>					
	<u>0854</u>														
NOTES (continued)								ABBREVIATIONS							
<u>FRUNDER</u> <u>SAMPLE @ 0900</u>								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site HENNEPIN JV Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 1200 to maintain well integrity?
 Well Number HEN-02

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing

	Yes	No	NA	Comments
Not corroded	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Not dented				
Not cracked				
Not loose				

3. Are there weep holes in outer casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Weep holes able to drain?				
5. Is there a lockable cap present?				
6. Is there a lock present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

	Yes	No	NA	Comments
12. Water level measuring point clearly marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Measured total depth of well.				

— ft
ft
27.09ft

General Condition

	Yes	No	NA	Comments
18. Concrete pad installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Not deteriorated?				
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
20. No surface seal settling?				
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments: DTN 41.8444 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION			
Site: <u>Hennepin, IL</u>	Client: <u>Ramboll</u>		
Project Number: _____	Task #: _____	Start Date: <u>8/24/2023</u>	Time: <u>1025</u>
Field Personnel: <u>Allison Beckett</u>		Finish Date: _____	Time: <u>1120</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-02</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1032		41.17		15.4	7.12	0.1079	5.70	5.80	156.5	Clear
	1037		41.17		14.2	6.81	0.1087	0.63	5.08	172.7	↓
	1042	2.0	41.17		14.0	6.78	0.1085	0.38	5.12	174.3	
	1047		41.16		14.1	6.81	0.1084	0.31	4.31	172.3	
	1052	3.0	41.15		14.0	6.83	0.1084	0.27	3.99	170.8	
	1057				14.0	6.83	0.1086	0.27	4.17	170.1	
	1102	4.0			14.0	6.83	0.1085	0.24	3.85	169.1	

NOTES (continued)	ABBREVIATIONS
<p style="font-size: 1.2em;">Samples taken @ 1105</p> <p style="font-size: 1.2em;">*NO FERROUS IRON SAMPLE*</p>	<p>Cond. - Actual Conductivity</p> <p>FT BTOC - Feet Below Top of Casing</p> <p>na - Not Applicable</p> <p>nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential</p> <p>SEC - Specific Electrical Conductance</p> <p>SU - Standard Units</p> <p>Temp - Temperature</p> <p>°C - Degrees Celsius</p>



Site	Hennepin, IL			Major wells repairs* required to maintain well integrity?			
Inspection Date	9/21/23 @ 1010			Yes	No	NA	
Well Number	HEN-XP NO2 - P1VE			<input checked="" type="checkbox"/>			
Stick-up Monitoring Wells							
1. Outer protective Casing				Comments			
Not corroded	Yes	No	NA				
Not dented		<input checked="" type="checkbox"/>					
Not cracked		↔					
Not loose							
2. Inner casing							
Not corroded	Yes	No	NA				
Not dented		<input checked="" type="checkbox"/>					
Not cracked		↔					
Not loose							
3. Are there weep holes in outer casing?							
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?							
7. Bumper posts in good condition?							
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?							
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?							
13. No obstructions in well?							
14. No plant roots or vegetation in well?							
15. No sediment in bottom of well?							
If present, how much sediment?							
16. Installed as total depth.							
17. Measured total depth of well.							
General Condition							
18. Concrete pad installed?							
19. Concrete pad							
Slope away from casing?							
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal settling?							
21. Well clearly visible and labeled?							
Comments:							
DTW: 14.39 ft							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION											
Site: _____			Client: _____								
Project Number: _____			Task #: _____			Start Date: <u>8/24/23</u>			Time: <u>1252</u>		
Field Personnel: <u>T. Brown</u>						Finish Date: _____			Time: <u>1450</u>		
WELL INFORMATION						EVENT TYPE					
Well ID: <u>XPU02</u>						<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches						<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>PRE</u>	<u>1256</u>	<u>4</u>	<u>14.03</u>								
<u>PURGE</u>	<u>1304</u>	<u>0.1</u>	<u>14.19</u>	<u>-0.16</u>							<u>CLEAR</u>
<u>SAMPLE</u>	<u>1308</u>	<u>1.0</u>	<u>14.58</u>	<u>-0.39</u>	<u>19.4</u>	<u>12.03</u>	<u>3.071</u>	<u>0.91</u>	<u>89.87</u>	<u>-116.0</u>	
	<u>1313</u>		<u>14.92</u>	<u>-0.36</u>	<u>19.2</u>	<u>12.13</u>	<u>3.111</u>	<u>0.21</u>	<u>59.77</u>	<u>-155.7</u>	
	<u>1318</u>		<u>15.0</u>	<u>-0.18</u>	<u>19.4</u>	<u>12.14</u>	<u>3.109</u>	<u>0.14</u>	<u>40.43</u>	<u>-165.2</u>	
	<u>1323</u>	<u>2.5</u>	<u>15.1</u>	<u>-0.1</u>	<u>19.3</u>	<u>12.16</u>	<u>3.129</u>	<u>0.10</u>	<u>28.61</u>	<u>-168.5</u>	
	<u>1328</u>		<u>15.13</u>	<u>-0.03</u>	<u>19.8</u>	<u>12.16</u>	<u>3.146</u>	<u>0.12</u>	<u>29.94</u>	<u>-157.5</u>	
	<u>1333</u>		<u>15.15</u>	<u>-0.02</u>	<u>19.7</u>	<u>12.17</u>	<u>3.163</u>	<u>0.12</u>	<u>22.84</u>	<u>-152.3</u>	
	<u>1338</u>	<u>3.25</u>	<u>15.15</u>	<u>0</u>	<u>19.7</u>	<u>12.17</u>	<u>3.191</u>	<u>0.12</u>	<u>23.05</u>	<u>-148.4</u>	
NOTES (continued)						ABBREVIATIONS					
<u>FI - 0.109</u> <u>Sample = 1345</u> <u>EB - 1345</u>						Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius					



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Site	HENNEPIN ILL			Major wells repairs * required to maintain well integrity?	Yes	No	NA
Inspection Date	8/21/23 @ 1005						
Well Number	HENPDW01 - PORE					X	
Stick-up Monitoring Wells							
1. Outer protective casing	Yes	No	NA	Comments			
Not corroded		X					
Not dented							
Not cracked							
Not loose							
2. Inner casing	Yes	No	NA				
Not corroded		X					
Not dented							
Not cracked							
Not loose							
3. Are there weep holes in outer casing?	Yes	No	NA				
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?	X						
7. Bumper posts in good condition?	X						
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?	Yes	No	NA				
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?	Yes	No	NA				
13. No obstructions in well?		X					
14. No plant roots or vegetation in well?		X					
15. No sediment in bottom of well?		X					
If present, how much sediment?	17.13 ft						
16. Installed as total depth.	17.13 ft						
17. Measured total depth of well.	17.13 ft						
General Condition							
18. Concrete pad installed?	Yes	No	NA				
19. Concrete pad		X					
Slope away from casing?							
Not deteriorated?		X					
Not heaved or below surrounding grade?		X					
20. No surface seal settling?							
21. Well clearly visible and labeled?	X						
Comments:							
DTW: 9.5 FT Bottom of casing: 17.13 FT							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

PROJECT INFORMATION																
Site: _____				Client: _____												
Project Number: _____				Task #: _____				Start Date: <u>8/24/23</u>		Time: <u>1125</u>						
Field Personnel: <u>CRampley</u>				Finish Date: _____				Time: <u>1230</u>								
WELL INFORMATION					EVENT TYPE											
Well ID: <u>XPW01</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
<u>PPE</u>	<u>1125</u>		<u>9.45</u>													
<u>PURGE</u>	<u>1130</u>	<u>0.1</u>	<u>9.45</u>	<u>Q</u>							<u>CLEAR</u>					
<u>SAMPLE</u>	<u>1135</u>	<u>0.25</u>	<u>9.45</u>	<u>Q</u>	<u>16.5</u>	<u>11.30</u>	<u>0.783</u>	<u>0.37</u>	<u>9.22</u>	<u>-241.6</u>						
	<u>1140</u>		<u>9.45</u>	<u>Q</u>	<u>19.5</u>	<u>11.31</u>	<u>0.795</u>	<u>0.22</u>	<u>10.51</u>	<u>-242.4</u>						
	<u>1145</u>	<u>1.0</u>	<u>9.45</u>	<u>Q</u>	<u>16.8</u>	<u>11.33</u>	<u>0.801</u>	<u>0.17</u>	<u>13.54</u>	<u>-244.1</u>						
	<u>1150</u>		<u>9.45</u>	<u>Q</u>	<u>19.0</u>	<u>11.33</u>	<u>0.804</u>	<u>0.11</u>	<u>17.05</u>	<u>-248.5</u>						
	<u>1155</u>		<u>9.45</u>	<u>Q</u>	<u>19.2</u>	<u>11.34</u>	<u>0.808</u>	<u>0.11</u>	<u>21.53</u>	<u>-259.5</u>						
	<u>1200</u>	<u>2.25</u>	<u>9.45</u>	<u>Q</u>	<u>17.6</u>	<u>11.39</u>	<u>0.815</u>	<u>0.11</u>	<u>54.09</u>	<u>-271.9</u>						
	<u>1205</u>		<u>9.45</u>	<u>Q</u>	<u>17.7</u>	<u>11.39</u>	<u>0.817</u>	<u>0.10</u>	<u>57.11</u>	<u>-278.6</u>						
	<u>1210</u>	<u>3.5</u>	<u>9.45</u>	<u>Q</u>	<u>17.7</u>	<u>11.39</u>	<u>0.818</u>	<u>0.10</u>	<u>55.97</u>	<u>-279.1</u>						
NOTES (continued)							ABBREVIATIONS									
<p><u>Sample @ 1215</u> <u>FT - UNDER</u> <u>EQUIPMENT BANK @ 1215</u></p>							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				



Site HENNEPIN PL Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 1010 to maintain well integrity? Yes No NA
 Well Number HEN-XPND3-P012

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing				
Not corroded		X		
Not dented				
Not cracked				
Not loose				

2. Inner casing

	Yes	No	NA	Comments
Not corroded		X		
Not dented				
Not cracked				
Not loose				

3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?			X	
6. Is there a lock present?	X			
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?				
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.	~			
17. Measured total depth of well.	ft			
	ft			
	19.11			
	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	X			
Slope away from casing?		X		
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

DTW: 9.85 ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site	Hennepin			Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	8/21/23 @ 0955					X	
Well Number	10						
Stick-up Monitoring Wells							
1. Outer protective Casing				Yes	No	NA	Comments
Not corroded					X		
Not dented					X		
Not cracked					X		
Not loose					X		
2. Inner casing				Yes	No	NA	
Not corroded					X		
Not dented					X		
Not cracked					X		
Not loose				Yes	No	NA	
3. Are there weep holes in outer casing?					X		
4. Weep holes able to drain?						X	
5. Is there a lockable cap present?					X		
6. Is there a lock present?					X		
7. Bumper posts in good condition?					X		
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?				Yes	No	NA	
Does the lid have a gasket that seals?					X		
10. No water in the flushmount?					X		
11. Is the well cap lockable?					X		
12. Is there a lock present?					X		
All Monitoring Wells							
Downhole Condition				Yes	No	NA	
12. Water level measuring point clearly marked?						X	
13. No obstructions in well?					X		
14. No plant roots or vegetation in well?					X		
15. No sediment in bottom of well?					X		
If present, how much sediment?				—	ft		
16. Installed as total depth.				—	ft		
17. Measured total depth of well.				48.65	ft		
General Condition							
18. Concrete pad installed?				Yes	No	NA	
Concrete pad					X		
Slope away from casing?					X		
Not deteriorated?					X		
Not heaved or below surrounding grade?					X		
20. No surface seal settling?					X		
21. Well clearly visible and labeled?					X		
Comments:							
DTW: 48.28 ft Bottom of casing / top of pump 48.115							
* Major well repair are those that require a subcontractor or separate mobilization to complete							

Site	HENNEPIN, IL			Major wells repairs* required to maintain well integrity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspection Date	8/21/23 @ 0930			Yes	No	NA		
Well Number	50							
	Stick-up Monitoring Wells			Comments				
1. Outer protective casing	Not corroded	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA			
	Not dented	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	Not cracked	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	Not loose	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
2. Inner casing	Not corroded	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA			
	Not dented	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	Not cracked	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	Not loose	<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
4. Weep holes able to drain?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
6. Is there a lock present?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	Flushmount Monitoring Wells							
8. Can the lid be secured tightly?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>	NA			
9. Does the lid have a gasket that seals?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
10. No water in the flushmount?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
11. Is the well cap lockable?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
12. Is there a lock present?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
	All Monitoring Wells							
Downhole Condition				Yes	No	NA		
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
13. No obstructions in well?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
If present, how much sediment?			ft					
16. Installed as total depth.			ft					
17. Measured total depth of well.			ft					
	General Condition			Yes	No	NA		
18. Concrete pad installed?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
19. Concrete pad		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Slope away from casing?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Not deteriorated?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
20. No surface seal settling?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
21. Well clearly visible and labeled?		<input checked="" type="checkbox"/>	No	<input checked="" type="checkbox"/>				
Comments:								
* Major well repair are those that require a subcontractor or separate mobilization to complete								

Site				Major wells repairs* required to maintain well integrity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection Date	2/25/23								
Well Number	HEN 34								
Stick-up Monitoring Wells				Comments					
1. Outer protective Casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>		↓		
Not dented									
Not cracked									
Not loose									
2. Inner casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented					<input checked="" type="checkbox"/>				
Not cracked					<input checked="" type="checkbox"/>				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?					<input checked="" type="checkbox"/>				
4. Weep holes able to drain?						<input checked="" type="checkbox"/>			
5. Is there a lockable cap present?					<input checked="" type="checkbox"/>				
6. Is there a lock present?					<input checked="" type="checkbox"/>				
7. Bumper posts in good condition?					<input checked="" type="checkbox"/>				
Flushmount Monitoring Wells									
8. Can the lid be secured tightly?				Yes	No	NA			
9. Does the lid have a gasket that seals?				Yes					
10. No water in the flushmount?				No					
11. Is the well cap lockable?				Yes					
12. Is there a lock present?				No					
All Monitoring Wells									
Downhole Condition				Yes	No	NA			
12. Water level measuring point clearly marked?					<input checked="" type="checkbox"/>				
13. No obstructions in well?					<input checked="" type="checkbox"/>				
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>				
15. No sediment in bottom of well?					<input checked="" type="checkbox"/>				
If present, how much sediment?				ft					
16. Installed as total depth.				ft					
17. Measured total depth of well.				ft					
General Condition				Yes	No	NA			
18. Concrete pad installed?					<input checked="" type="checkbox"/>				
19. Concrete pad					<input checked="" type="checkbox"/>				
Slope away from casing?					<input checked="" type="checkbox"/>				
Not deteriorated?					<input checked="" type="checkbox"/>				
Not heaved or below surrounding grade?					<input checked="" type="checkbox"/>				
20. No surface seal settling?					<input checked="" type="checkbox"/>				
21. Well clearly visible and labeled?					<input checked="" type="checkbox"/>				
Comments:									
* Major well repair are those that require a subcontractor or separate mobilization to complete									

Site			
Inspection Date	<u>8/25/23</u>		
Well Number	<u>HEN 49</u>		
Stick-up Monitoring Wells	Major wells repairs * required to maintain well integrity?		
		Yes	No
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		NA	NA
Comments			
1. Outer protective Casing	Yes	No	NA
Not corroded		<input checked="" type="checkbox"/>	
Not dented			
Not cracked			
Not loose			
2. Inner casing	Yes	No	NA
Not corroded		<input checked="" type="checkbox"/>	
Not dented			
Not cracked			
Not loose	Yes	No	NA
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Are there weep holes in outer casing?			
4. Weep holes able to drain?			
5. Is there a lockable cap present?			
6. Is there a lock present?	Yes	No	NA
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Bumper posts in good condition?	Yes	No	NA
	<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>		
Flushmount Monitoring Wells			
8. Can the lid be secured tightly?	Yes	No	NA
	<input checked="" type="checkbox"/>		
9. Does the lid have a gasket that seals?			
10. No water in the flushmount?			
11. Is the well cap lockable?			
12. Is there a lock present?			
All Monitoring Wells			
Downhole Condition			
12. Water level measuring point clearly marked?	Yes	No	NA
		<input checked="" type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>	
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>	
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>	
If present, how much sediment?	ft		
16. Installed as total depth.	ft		
17. Measured total depth of well.	ft		
General Condition			
18. Concrete pad installed?	Yes	No	NA
	<input checked="" type="checkbox"/>		
19. Concrete pad			
Slope away from casing?		<input checked="" type="checkbox"/>	
Not deteriorated?		<input checked="" type="checkbox"/>	
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>	
20. No surface seal settling?		<input checked="" type="checkbox"/>	
21. Well clearly visible and labeled?	Yes	No	NA
	<input checked="" type="checkbox"/>		
Comments:			
<u>BATTERY WAS REPLACED + WOULD NOT COME, WELL WAS COVERED MANUALLY</u>			
* Major well repair are those that require a subcontractor or separate mobilization to complete			

PROJECT INFORMATION											
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>							
Project Number: _____				Task #: _____				Start Date: <u>8/25/23</u>		Time: <u>0925</u>	
Field Personnel: <u>Allison Belmont</u>				Finish Date: _____				Time: <u>1055</u>			
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-49</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>09</u>	<u>1032</u>		<u>19.65</u>		<u>15.5</u>	<u>7.2</u>	<u>0.700</u>	<u>1.40</u>	<u>72.1</u>	<u>-1.5</u>	<u>Clear</u>
<u>09</u>	<u>1037</u>		<u>19.65</u>		<u>15.3</u>	<u>7.13</u>	<u>0.698</u>	<u>0.22</u>	<u>92.38</u>	<u>38.0</u>	<u>Brown Murky</u>
<u>09</u>	<u>1042</u>	<u>2.0</u>	<u>19.65</u>		<u>15.4</u>	<u>7.12</u>	<u>0.1098</u>	<u>0.17</u>	<u>110.79</u>	<u>48.6</u>	
<u>09</u>	<u>1047</u>		<u>19.64</u>		<u>15.4</u>	<u>7.12</u>	<u>0.1098</u>	<u>0.15</u>	<u>122.4</u>	<u>57.7</u>	
<u>09</u>	<u>1052</u>		<u>19.65</u>		<u>15.4</u>	<u>7.12</u>	<u>0.647</u>	<u>0.13</u>	<u>121.9</u>	<u>58.8</u>	
<u>09</u>	<u>1057</u>	<u>5.0</u>	<u>19.64</u>		<u>15.4</u>	<u>7.12</u>	<u>0.698</u>	<u>0.12</u>	<u>122.9</u>	<u>59.1</u>	
<u>10</u>	<u>1102</u>		<u>19.65</u>		<u>15.3</u>	<u>7.12</u>	<u>0.698</u>	<u>0.11</u>	<u>123.6</u>	<u>58.2</u>	
NOTES (continued)							ABBREVIATIONS				
<p>Sample taken @ 1105</p> <p>Ferrous iron sample @ 1030: under range</p>							Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius				



- 1
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- 14

Site	HENNEPIN 2			Major wells repairs * required to maintain well integrity?	Yes	No	NA
Inspection Date	8/28/23 0815						
Well Number	HEN-10						
Stick-up Monitoring Wells							
1. Outer protective casing	Yes	No	NA	Comments			
Not corroded		<input checked="" type="checkbox"/>					
Not dented		<input checked="" type="checkbox"/>					
Not cracked							
Not loose							
2. Inner casing	Yes	No	NA				
Not corroded		<input checked="" type="checkbox"/>					
Not dented		<input checked="" type="checkbox"/>					
Not cracked							
Not loose							
3. Are there weep holes in outer casing?	Yes	No	NA				
4. Weep holes able to drain?							
5. Is there a lockable cap present?							
6. Is there a lock present?							
7. Bumper posts in good condition?							
Flushmount Monitoring Wells							
8. Can the lid be secured tightly?	Yes	No	NA				
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells							
Downhole Condition							
12. Water level measuring point clearly marked?	Yes	No	NA				
13. No obstructions in well?							
14. No plant roots or vegetation in well?							
15. No sediment in bottom of well?							
If present, how much sediment?	ft						
16. Installed as total depth.	ft						
17. Measured total depth of well.	ft						
General Condition							
18. Concrete pad installed?	Yes	No	NA				
19. Concrete pad	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Slope away from casing?							
Not deteriorated?							
Not heaved or below surrounding grade?							
20. No surface seal settling?							
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>						
Comments:							
DTW: 53.90, dead BATTERIES/TRANSISTOR IS FRIEND							

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>			Client: <u>Ramboll</u>												
Project Number: _____			Task #: _____			Start Date: <u>8/28/23</u>			Time: <u>0800</u>						
Field Personnel: <u>Allison Barrett</u>			Finish Date: _____			Time: <u>0905</u>									
WELL INFORMATION					EVENT TYPE										
Well ID: <u>HEN-110</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: <u>2</u> inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>0808</u>		<u>53.90</u>		<u>19.9</u>	<u>7.47</u>	<u>0.550</u>	<u>8.13</u>	<u>4.40</u>	<u>114.5</u>	<u>clear</u>				
	<u>0813</u>		<u>53.90</u>		<u>22.5</u>	<u>7.23</u>	<u>0.553</u>	<u>1.41</u>	<u>3.88</u>	<u>131.4</u>					
	<u>0818</u>		<u>53.90</u>		<u>22.7</u>	<u>7.23</u>	<u>0.554</u>	<u>1.21</u>	<u>3.92</u>	<u>131.1</u>					
	<u>0823</u>	<u>1.0</u>	<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.53</u>	<u>3.85</u>	<u>126.8</u>					
	<u>0828</u>		<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.41</u>	<u>3.89</u>	<u>123.5</u>					
	<u>0833</u>	<u>2.0</u>	<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.37</u>	<u>3.99</u>	<u>122.2</u>	<u>↓</u>				
NOTES (continued)								ABBREVIATIONS							
<p><u>Samples taken @ 0835</u></p> <p><u>Ferrrous iron sample @ 0850: Under range</u></p>								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site Hennepin, IL Major wells repairs * required to maintain well integrity?

Yes	No	NA
-----	----	----

Inspection Date 8/28/23 @ 0915

Well Number HEN-17

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing

	Yes	No	NA	Comments
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose				

3. Are there weep holes in outer casing?				
4. Weep holes able to drain?				
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>		
6. Is there a lock present?		<input checked="" type="checkbox"/>		
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?				
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>	
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	Comments
12. Water level measuring point clearly marked?				
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				

General Condition

	Yes	No	NA	Comments
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?	<input checked="" type="checkbox"/>			CRACKED
Not heaved or below surrounding grade?	<input checked="" type="checkbox"/>			CRACKED
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

DTM: DM App

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____			Task #: _____			Start Date: <u>8/28/23</u>			Time: <u>0905</u>						
Field Personnel: <u>Amison Belketh</u>				Finish Date: _____				Time: <u>1030</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-17</u>		Casing ID: <u>2</u> inches		<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>0911</u>				<u>22.6</u>	<u>7.15</u>	<u>0.565</u>	<u>5.91</u>	<u>5.06</u>	<u>137.9</u>	<u>clear</u>				
	<u>0916</u>				<u>22.7</u>	<u>7.35</u>	<u>0.514</u>	<u>6.13</u>	<u>3.97</u>	<u>140.7</u>	<u> </u>				
	<u>0921</u>				<u>22.5</u>	<u>7.35</u>	<u>0.508</u>	<u>6.06</u>	<u>4.08</u>	<u>144.3</u>	<u> </u>				
	<u>0926</u>	<u>1.0</u>			<u>22.5</u>	<u>7.35</u>	<u>0.508</u>	<u>6.00</u>	<u>3.96</u>	<u>146.5</u>	<u> </u>				
	<u>0931</u>				<u>22.4</u>	<u>7.34</u>	<u>0.507</u>	<u>5.88</u>	<u>3.99</u>	<u>147.6</u>	<u> </u>				
	<u>0936</u>	<u>2.0</u>			<u>22.4</u>	<u>7.34</u>	<u>0.506</u>	<u>5.76</u>	<u>4.02</u>	<u>148.2</u>	<u>↓</u>				
NOTES (continued)								ABBREVIATIONS							
<p>Samples taken @ 0940</p> <p>Ferrous iron sample @ 0945: Under range</p>								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			
								<p>dupe @ 0940</p>							

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Site				Major wells repairs* required to maintain well integrity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection Date	8/28								
Well Number	03R								
Stick-up Monitoring Wells				Comments					
1. Outer protective Casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented					<input checked="" type="checkbox"/>				
Not cracked					<input checked="" type="checkbox"/>				
Not loose					<input checked="" type="checkbox"/>				
2. Inner casing				Yes	No	NA			
Not corroded					<input checked="" type="checkbox"/>				
Not dented					<input checked="" type="checkbox"/>				
Not cracked					<input checked="" type="checkbox"/>				
Not loose				Yes	No	NA			
3. Are there weep holes in outer casing?					<input checked="" type="checkbox"/>				
4. Weep holes able to drain?					<input checked="" type="checkbox"/>				
5. Is there a lockable cap present?					<input checked="" type="checkbox"/>				
6. Is there a lock present?					<input checked="" type="checkbox"/>				
7. Bumper posts in good condition?					<input checked="" type="checkbox"/>				
Flushmount Monitoring Wells				Yes	No	NA			
8. Can the lid be secured tightly?					<input checked="" type="checkbox"/>				
9. Does the lid have a gasket that seals?					<input checked="" type="checkbox"/>				
10. No water in the flushmount?					<input checked="" type="checkbox"/>				
11. Is the well cap lockable?					<input checked="" type="checkbox"/>				
12. Is there a lock present?					<input checked="" type="checkbox"/>				
All Monitoring Wells				Yes	No	NA			
12. Water level measuring point clearly marked?					<input checked="" type="checkbox"/>				
13. No obstructions in well?					<input checked="" type="checkbox"/>				
14. No plant roots or vegetation in well?					<input checked="" type="checkbox"/>				
15. No sediment in bottom of well?					<input checked="" type="checkbox"/>				
If present, how much sediment?				ft					
16. Installed as total depth.				ft					
17. Measured total depth of well.				ft					
General Condition				Yes	No	NA			
18. Concrete pad installed?					<input checked="" type="checkbox"/>				
19. Concrete pad					<input checked="" type="checkbox"/>				
Slope away from casing?					<input checked="" type="checkbox"/>				
Not deteriorated?					<input checked="" type="checkbox"/>				
Not heaved or below surrounding grade?					<input checked="" type="checkbox"/>				
20. No surface seal settling?					<input checked="" type="checkbox"/>				
21. Well clearly visible and labeled?					<input checked="" type="checkbox"/>				
Comments:									
* Major well repair are those that require a subcontractor or separate mobilization to complete									

PROJECT INFORMATION															
Site: _____						Client: _____									
Project Number: _____				Task #: _____		Start Date: <u>8/28</u>			Time: <u>0906</u>						
Field Personnel: <u>TREMBLAY</u>				Finish Date: _____		Finish Date: _____			Time: <u>121</u>						
WELL INFORMATION					EVENT TYPE										
Well ID: <u>03R</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>Purge</u>	<u>0915</u>	<u>0.1</u>							10.85	137.8	<u>Clear</u>				
<u>Sample</u>	<u>0920</u>				<u>16.2</u>	<u>7.22</u>	<u>0.655</u>	<u>0.81</u>	<u>10.85</u>	137.8	<u>1</u>				
	<u>0925</u>	<u>1.0</u>			<u>18.2</u>	<u>7.21</u>	<u>0.653</u>	<u>0.32</u>	<u>5.46</u>	<u>137.8</u>					
	<u>0930</u>				<u>14.2</u>	<u>7.21</u>	<u>0.653</u>	<u>0.22</u>	<u>3.81</u>	<u>132.9</u>					
	<u>0935</u>				<u>18.3</u>	<u>7.21</u>	<u>0.653</u>	<u>0.22</u>	<u>2.99</u>	<u>129.4</u>					
	<u>0940</u>	<u>2.25</u>			<u>16.3</u>	<u>7.20</u>	<u>0.652</u>	<u>0.21</u>	<u>2.54</u>	<u>126.9</u>					
	<u>0945</u>														
	<u>0950</u>														
	<u>0955</u>														
NOTES (continued)								ABBREVIATIONS							
<u>F1 - UNDER</u> <u>SAMPLE @ 0945</u>								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site _____ Major wells repairs * required to maintain well integrity? Yes No NA

Inspection Date 8/28/23

Well Number 185

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose				
3. Are there weep holes in outer casing?				
4. Weep holes able to drain?			<input checked="" type="checkbox"/>	
5. Is there a lockable cap present?				
6. Is there a lock present?	<input checked="" type="checkbox"/>			
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>			

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>			
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>		
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	<input checked="" type="checkbox"/>			
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>		
20. No surface seal setting?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: _____						Client: _____					
Project Number: _____				Task #: _____		Start Date: <u>8/28/23</u>		Time: <u>0800</u>			
Field Personnel: <u>Travis Ly</u>				Finish Date: _____		Time: <u>0905</u>					
WELL INFORMATION					EVENT TYPE						
Well ID: <u>185</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>purge</u>	<u>0810</u>	<u>0.25</u>									<u>CLEAR</u>
	<u>0811</u>				<u>16.8</u>	<u>7.52</u>	<u>0.666</u>	<u>2.30</u>	<u>5.45</u>	<u>104.0</u>	
	<u>0816</u>				<u>16.7</u>	<u>7.39</u>	<u>0.661</u>	<u>0.42</u>	<u>3.20</u>	<u>103.2</u>	
	<u>0821</u>				<u>16.8</u>	<u>7.39</u>	<u>0.661</u>	<u>0.26</u>	<u>2.61</u>	<u>98.1</u>	
	<u>0826</u>	<u>2.25</u>			<u>16.8</u>	<u>7.38</u>	<u>0.661</u>	<u>0.22</u>	<u>2.49</u>	<u>75.5</u>	
	<u>0831</u>	<u>2.5</u>			<u>16.8</u>	<u>7.38</u>	<u>0.661</u>	<u>0.20</u>	<u>2.46</u>	<u>94.1</u>	
	<u>0836</u>										
	<u>0841</u>										
	<u>0846</u>										
NOTES (continued)						ABBREVIATIONS					
<u>FI-UNDER</u> <u>0835</u> <u>sample</u>						Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius					

Site Hennepin, IL Major wells repairs * required to maintain well integrity? Yes No NA

Inspection Date 8/22/23 @ 1125 Yes No NA

Well Number HEN-465

Stick-up Monitoring Wells

	Yes	No	NA	Comments
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded				
Not dented				
Not cracked				
Not loose				

2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented				
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?				
5. Is there a lockable cap present?				
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?				
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				

General Condition

18. Concrete pad installed?	Yes	No	NA	
19. Concrete pad	<input checked="" type="checkbox"/>			
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments: DTW: 18.98 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION																
Site: <u>Hennepin, IL</u>						Client: <u>Ramboll</u>										
Project Number: _____				Task #: _____				Start Date: <u>8/28/23</u>				Time: <u>1040</u>				
Field Personnel: <u>Allison Beckwith</u>						Finish Date: _____						Time: <u>1140</u>				
WELL INFORMATION				EVENT TYPE												
Well ID: <u>HEN-455</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
	<u>1044</u>		<u>18.98</u>		<u>19.3</u>	<u>7.32</u>	<u>0.700</u>	<u>3.27</u>	<u>9.13</u>	<u>57.9</u>	<u>Clear</u>					
	<u>1049</u>		<u>18.97</u>		<u>19.1</u>	<u>7.17</u>	<u>0.041</u>	<u>0.25</u>	<u>148.24</u>	<u>108.9</u>	<u>Brown/murky</u>					
	<u>1054</u>	<u>2.5</u>	<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.22</u>	<u>130.10</u>	<u>111.7</u>						
	<u>1059</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.19</u>	<u>89.9</u>	<u>110.1</u>						
	<u>1104</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.18</u>	<u>107.30</u>	<u>118.0</u>						
	<u>1109</u>	<u>5.0</u>	<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.17</u>	<u>54.30</u>	<u>119.2</u>						
	<u>1118</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.17</u>	<u>55.00</u>	<u>120.2</u>						
NOTES (continued)							ABBREVIATIONS									
<p>Samples taken @ 1115 1115</p> <p>Ferrous iron sample @ 1130: under range</p>							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				

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN
Event: HEN-23Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
03R	HEN_03R	8/28/2023	9:06	See transducer reading	21615140	y	448.07	y	h		CT
07	HEN_07	8/24/2023	13:20	See transducer reading	21615139	y	450.45	y	h		AB
08	HEN_08	8/24/2023	14:35	See transducer reading	21615138	y	448.33	y	h		AB
08D	HEN_08&D	8/24/2023	11:40	See transducer reading	21615598	y	448.09	y	h		AB
12	HEN_12	8/23/2023	9:30	See transducer reading	21615520	y	448.17	y	h		AB
13	HEN_13	8/23/2023	10:55	See transducer reading	21615515	y	448.22	y	h		AB
16	HEN_16	8/28/2023	8:00	53.9	21615137	y	N/A	n	h	Replaced battery, issues connecting to hobo link, manually gauged well.	AB
17	HEN_17	8/28/2023	9:05	See transducer reading	21615500	y	449.15	y	h		AB
18S	HEN_18#S	8/28/2023	8:00	See transducer reading	21615482	y	448.12	y	h		CT
18D	HEN_18&D	8/23/2023	13:18	See transducer reading	21615609	y	448.08	y	h		CT
21R	HEN_21R	8/22/2023	13:00	See transducer reading	21615613	y	447.73	y	h		AB
22	HEN_22	8/25/2023	8:15	See transducer reading	21615497	y	447.26	y	h		AB
22D	HEN_22&D	8/22/2023	8:00	See transducer reading	21564134	y	447.57	y	h		AB
23	HEN_23	8/22/2023	10:40	See transducer reading	21615600	y	447.92	y	h		AB
27	HEN_27	8/24/2023	8:20	See transducer reading	21615576	y	447.77	y	h		CT
32	HEN_32	8/22/2023	10:35	See transducer reading	21615487	y	447.64	y	h		CT



SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN
Event: HEN-23Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L)		
34	HEN_34	8/25/2023	10:53	See transducer reading	21615509	y	440.58	y	h	Replaced battery 8/25/23	CT
35	HEN_35	8/24/2023	9:30	See transducer reading	21615510	y	447.64	y	h		CT
46	HEN_46	8/23/2023	8:10	See transducer reading	21615491	y	448.28	y	h		AB
47	HEN_47	8/23/2023	14:55	See transducer reading	21615505	y	447.94	y	h		AB
49	HEN_49	8/25/2023	9:25	19.65	21615490	y	N/A	n	h	Replaced battery, issues connecting to hobo link, manually gauged well.	AB
50	HEN_50	8/25/2023	10:55	See transducer reading	21615489	y	-0.03	y	h		AB
51	HEN_51	8/22/2023	15:00	See transducer reading	21615608	y	447.74	y	h		AB
52	HEN_52	8/24/2023	9:05	See transducer reading	21615145	y	448.12	y	h		AB
54	HEN_54	8/23/2023	13:00	See transducer reading	21615143	y	448.03	y	h		AB
55	HEN_55	8/23/2023	12:55	See transducer reading	21615612	y	corrupted file	y	h	Data was downloaded, data did not save correctly/ corrupt	AB

U: 6/21/23 GKJ



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ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701
Generated 10/11/2023 6:27:15 PM

JOB DESCRIPTION

HEN-23Q3
SDG NUMBER HEN_SUP_000_0 RAD

JOB NUMBER

500-238579-10

Eurofins Chicago

Job Notes

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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
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(708)325-6562



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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238579-10

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626172/2-A) and (MB 160-626172/1-A).

Method 903.0: Radium-226 batch 626178:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626179:

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

HEN_XPW01_pore (500-238579-36).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD) .

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626177/2-A) and (MB 160-626177/1-A).

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

Narrative

Job Narrative 500-238579-14

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

RAD

Method 903.0: Radium-226 batch 626180:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-16

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626180:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-18

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

applied as the Activity Reference Date.

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-2

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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

Narrative

Job Narrative 500-238579-21

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved. HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

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

Narrative

Job Narrative 500-238579-23

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved. HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

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

Narrative

Job Narrative 500-238579-4

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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

Narrative

Job Narrative 500-238579-6

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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



Method Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10

SDG: HEN_SUP_000_0 RAD

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

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238579-1	HEN_21R	Water	08/22/23 13:45	08/23/23 10:00
500-238579-2	HEN_22&D	Water	08/22/23 09:10	08/23/23 10:00
500-238579-3	HEN_23	Water	08/22/23 11:20	08/23/23 10:00
500-238579-4	HEN_23_FD	Water	08/22/23 11:20	08/23/23 10:00
500-238579-5	HEN_32	Water	08/22/23 11:15	08/23/23 10:00
500-238579-6	HEN_51	Water	08/22/23 15:56	08/23/23 10:00
500-238579-7	HEN_25	Water	08/22/23 14:30	08/23/23 10:00
500-238579-8	HEN_26	Water	08/22/23 15:35	08/23/23 10:00
500-238579-13	HEN_18&D	Water	08/23/23 14:05	08/24/23 09:38
500-238579-15	HEN_12	Water	08/23/23 10:10	08/24/23 09:38
500-238579-16	HEN_13	Water	08/23/23 11:25	08/24/23 09:38
500-238579-18	HEN_46	Water	08/23/23 08:55	08/24/23 09:38
500-238579-19	HEN_47	Water	08/23/23 15:30	08/24/23 09:38
500-238579-20	HEN_54	Water	08/23/23 13:50	08/24/23 09:38
500-238579-25	HEN_52	Water	08/24/23 09:40	08/25/23 09:32
500-238579-26	HEN_27	Water	08/24/23 09:00	08/25/23 09:32
500-238579-27	HEN_35	Water	08/24/23 10:10	08/25/23 09:32
500-238579-28	HEN_07	Water	08/24/23 14:00	08/25/23 09:32
500-238579-30	HEN_08	Water	08/24/23 15:10	08/25/23 09:32
500-238579-32	HEN_08&D	Water	08/24/23 12:25	08/25/23 09:32
500-238579-34	HEN_08_FD	Water	08/24/23 15:10	08/25/23 09:32
500-238579-36	HEN_XPW01_pore	Water	08/24/23 12:15	08/25/23 09:32
500-238579-37	HEN_XPW01_pore_EB	Water	08/24/23 12:15	08/25/23 09:32
500-238579-38	HEN_XPW02_pore	Water	08/24/23 13:45	08/25/23 09:32
500-238579-39	HEN_XPW02_pore_EB	Water	08/24/23 13:45	08/25/23 09:32
500-238579-40	HEN_XPW03_pore	Water	08/24/23 15:30	08/25/23 09:32
500-238579-41	HEN_XPW03_pore_EB	Water	08/24/23 15:30	08/25/23 09:32
500-238579-42	HEN_257_FB	Water	08/25/23 12:00	08/25/23 15:00
500-238579-44	HEN_34	Water	08/25/23 11:25	08/25/23 15:00
500-238579-45	HEN_49	Water	08/25/23 10:05	08/25/23 15:00
500-238579-46	HEN_22	Water	08/25/23 08:50	08/25/23 15:00
500-238579-47	HEN_50	Water	08/25/23 11:25	08/25/23 15:00
500-238579-50	845_803_FB	Water	08/28/23 12:00	08/28/23 15:00
500-238579-51	HEN_18#S	Water	08/28/23 08:35	08/28/23 15:00
500-238579-53	HEN_03R	Water	08/28/23 09:45	08/28/23 15:00
500-238579-56	HEN_45#S	Water	08/28/23 11:15	08/28/23 15:00
500-238579-58	HEN_16	Water	08/28/23 08:35	08/28/23 15:00
500-238579-59	HEN_17	Water	08/28/23 09:40	08/28/23 15:00
500-238579-60	HEN_17-FD	Water	08/28/23 09:40	08/28/23 15:00



Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_21R
Date Collected: 08/22/23 13:45
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-1
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	0.614		0.187	0.195	1.00	0.167	pCi/L	08/31/23 10:39	09/25/23 09:27	1
Radium-226	0.614		0.187	0.195	1.00	0.167	pCi/L	08/31/23 10:39	09/25/23 09:27	1
Radium-226	0.614		0.187	0.195	1.00	0.167	pCi/L	08/31/23 10:39	09/25/23 09:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/31/23 10:39	09/25/23 09:27	1
Ba Carrier	90.1		30 - 110					08/31/23 10:39	09/25/23 09:27	1
Ba Carrier	90.1		30 - 110					08/31/23 10:39	09/25/23 09:27	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	0.209	U	0.489	0.489	1.00	0.855	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.209	U	0.489	0.489	1.00	0.855	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.209	U	0.489	0.489	1.00	0.855	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	90.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	90.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.6		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.6		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.6		30 - 110					08/31/23 10:56	09/19/23 12:23	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	0.823	U	0.524	0.526	5.00	0.855	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.823	U	0.524	0.526	5.00	0.855	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.823	U	0.524	0.526	5.00	0.855	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_22&D

Lab Sample ID: 500-238579-2

Date Collected: 08/22/23 09:10

Matrix: Water

Date Received: 08/23/23 10:00

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	0.710		0.165	0.177	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:28	1
Radium-226	0.710		0.165	0.177	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 10:39	09/25/23 09:28	1
Ba Carrier	91.3		30 - 110					08/31/23 10:39	09/25/23 09:28	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	0.548	U	0.400	0.404	1.00	0.611	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.548	U	0.400	0.404	1.00	0.611	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	91.3		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.26		0.433	0.441	5.00	0.611	pCi/L		09/27/23 15:51	1
Radium 226 and 228	1.26		0.433	0.441	5.00	0.611	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_23
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-3
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0778	U	0.0660	0.0664	1.00	0.0940	pCi/L	08/31/23 10:39	09/25/23 09:28	1
Radium-226	0.0778	U	0.0660	0.0664	1.00	0.0940	pCi/L	08/31/23 10:39	09/25/23 09:28	1
Radium-226	0.0778	U	0.0660	0.0664	1.00	0.0940	pCi/L	08/31/23 10:39	09/25/23 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/31/23 10:39	09/25/23 09:28	1
Ba Carrier	96.5		30 - 110					08/31/23 10:39	09/25/23 09:28	1
Ba Carrier	96.5		30 - 110					08/31/23 10:39	09/25/23 09:28	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.177	U	0.379	0.379	1.00	0.658	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.177	U	0.379	0.379	1.00	0.658	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.177	U	0.379	0.379	1.00	0.658	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	96.5		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	96.5		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.9		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.9		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.9		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.255	U	0.385	0.385	5.00	0.658	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.255	U	0.385	0.385	5.00	0.658	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.255	U	0.385	0.385	5.00	0.658	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_23_FD

Lab Sample ID: 500-238579-4

Date Collected: 08/22/23 11:20

Matrix: Water

Date Received: 08/23/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0729	U	0.0738	0.0741	1.00	0.115	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.0729	U	0.0738	0.0741	1.00	0.115	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.0729	U	0.0738	0.0741	1.00	0.115	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	94.0		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	94.0		30 - 110					08/31/23 10:39	09/25/23 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.118	U	0.314	0.314	1.00	0.558	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.118	U	0.314	0.314	1.00	0.558	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.118	U	0.314	0.314	1.00	0.558	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	94.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	94.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	80.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	80.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	80.0		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.191	U	0.323	0.323	5.00	0.558	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.191	U	0.323	0.323	5.00	0.558	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.191	U	0.323	0.323	5.00	0.558	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job No: 45092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_32
Date Collected: 08/22/23 11:15
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0898	U	0.0943	0.0947	1.00	0.151	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.0898	U	0.0943	0.0947	1.00	0.151	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.0898	U	0.0943	0.0947	1.00	0.151	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	92.8		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	92.8		30 - 110					08/31/23 10:39	09/25/23 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.225	U	0.373	0.373	1.00	0.636	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.225	U	0.373	0.373	1.00	0.636	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.225	U	0.373	0.373	1.00	0.636	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	92.8		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	92.8		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	78.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.315	U	0.385	0.385	5.00	0.636	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.315	U	0.385	0.385	5.00	0.636	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.315	U	0.385	0.385	5.00	0.636	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_51
Date Collected: 08/22/23 15:56
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.712		0.206	0.216	1.00	0.192	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.712		0.206	0.216	1.00	0.192	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Radium-226	0.712		0.206	0.216	1.00	0.192	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	91.3		30 - 110					08/31/23 10:39	09/25/23 09:34	1
Ba Carrier	91.3		30 - 110					08/31/23 10:39	09/25/23 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.323	U	0.445	0.446	1.00	0.746	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.323	U	0.445	0.446	1.00	0.746	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.323	U	0.445	0.446	1.00	0.746	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	91.3		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	91.3		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.490	0.496	5.00	0.746	pCi/L		09/27/23 15:51	1
Radium 226 and 228	1.03		0.490	0.496	5.00	0.746	pCi/L		09/27/23 15:51	1
Radium 226 and 228	1.03		0.490	0.496	5.00	0.746	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
945 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_25
Date Collected: 08/22/23 14:30
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124	U	0.0917	0.0924	1.00	0.132	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/31/23 10:39	09/25/23 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0383	U	0.333	0.333	1.00	0.610	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	79.6		30 - 110					08/31/23 10:56	09/19/23 12:23	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	0.162	U	0.345	0.346	5.00	0.610	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_26
Date Collected: 08/22/23 15:35
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.306		0.132	0.134	1.00	0.159	pCi/L	08/31/23 10:39	09/25/23 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					08/31/23 10:39	09/25/23 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.320	U	0.304	0.306	1.00	0.654	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	82.6		30 - 110					08/31/23 10:56	09/19/23 12:23	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	0.306	U	0.331	0.334	5.00	0.654	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_18&D

Lab Sample ID: 500-238579-13

Date Collected: 08/23/23 14:05

Matrix: Water

Date Received: 08/24/23 09:38

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	0.141		0.0860	0.0870	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Radium-226	0.141		0.0860	0.0870	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Radium-226	0.141		0.0860	0.0870	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:39	09/25/23 09:35	1
Ba Carrier	93.1		30 - 110					08/31/23 10:39	09/25/23 09:35	1
Ba Carrier	93.1		30 - 110					08/31/23 10:39	09/25/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.357	0.357	1.00	0.611	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.208	U	0.357	0.357	1.00	0.611	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.208	U	0.357	0.357	1.00	0.611	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	93.1		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	93.1		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	80.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	80.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	80.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.349	U	0.367	0.367	5.00	0.611	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.349	U	0.367	0.367	5.00	0.611	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.349	U	0.367	0.367	5.00	0.611	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_12
Date Collected: 08/23/23 10:10
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-15
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0183	U	0.0574	0.0574	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Radium-226	0.0183	U	0.0574	0.0574	1.00	0.110	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					08/31/23 10:39	09/25/23 09:35	1
Ba Carrier	95.8		30 - 110					08/31/23 10:39	09/25/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.273	U	0.439	0.440	1.00	0.743	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.273	U	0.439	0.440	1.00	0.743	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	95.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	80.0		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	80.0		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.291	U	0.443	0.444	5.00	0.743	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.291	U	0.443	0.444	5.00	0.743	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_13
Date Collected: 08/23/23 11:25
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-16
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0389	U	0.0708	0.0709	1.00	0.126	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Radium-226	0.0389	U	0.0708	0.0709	1.00	0.126	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		30 - 110					08/31/23 10:39	09/25/23 09:35	1
Ba Carrier	85.4		30 - 110					08/31/23 10:39	09/25/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0984	U	0.357	0.357	1.00	0.643	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.0984	U	0.357	0.357	1.00	0.643	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	85.4		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:23	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	0.137	U	0.364	0.364	5.00	0.643	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.137	U	0.364	0.364	5.00	0.643	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_46

Lab Sample ID: 500-238579-18

Date Collected: 08/23/23 08:55

Matrix: Water

Date Received: 08/24/23 09:38

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0922	U	0.0796	0.0800	1.00	0.118	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Radium-226	0.0922	U	0.0796	0.0800	1.00	0.118	pCi/L	08/31/23 10:39	09/25/23 09:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/31/23 10:39	09/25/23 09:35	1
Ba Carrier	90.1		30 - 110					08/31/23 10:39	09/25/23 09:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.462	U	0.366	0.368	1.00	0.563	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Radium-228	0.462	U	0.366	0.368	1.00	0.563	pCi/L	08/31/23 10:56	09/19/23 12:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Ba Carrier	90.1		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	80.4		30 - 110					08/31/23 10:56	09/19/23 12:23	1
Y Carrier	80.4		30 - 110					08/31/23 10:56	09/19/23 12:23	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.554	U	0.375	0.377	5.00	0.563	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.554	U	0.375	0.377	5.00	0.563	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_47
Date Collected: 08/23/23 15:30
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-19
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.125	U	0.0906	0.0913	1.00	0.129	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.125	U	0.0906	0.0913	1.00	0.129	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	93.1		30 - 110					08/31/23 10:39	09/25/23 09:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.0500	U	0.314	0.314	1.00	0.578	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.0500	U	0.314	0.314	1.00	0.578	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	93.1		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.175	U	0.327	0.327	5.00	0.578	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.175	U	0.327	0.327	5.00	0.578	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_54

Lab Sample ID: 500-238579-20

Date Collected: 08/23/23 13:50

Matrix: Water

Date Received: 08/24/23 09:38

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	0.161		0.112	0.113	1.00	0.160	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.161		0.112	0.113	1.00	0.160	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	91.8		30 - 110					08/31/23 10:39	09/25/23 09:36	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	0.0451	U	0.356	0.356	1.00	0.649	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.0451	U	0.356	0.356	1.00	0.649	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	91.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.206	U	0.373	0.374	5.00	0.649	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.206	U	0.373	0.374	5.00	0.649	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143		0.0996	0.100	1.00	0.143	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.143		0.0996	0.100	1.00	0.143	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	89.6		30 - 110					08/31/23 10:39	09/25/23 09:36	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	0.336	U	0.377	0.379	1.00	0.616	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.336	U	0.377	0.379	1.00	0.616	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	89.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	74.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	74.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.479	U	0.390	0.392	5.00	0.616	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.479	U	0.390	0.392	5.00	0.616	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_27
Date Collected: 08/24/23 09:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-26
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.131	U	0.0948	0.0956	1.00	0.137	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.131	U	0.0948	0.0956	1.00	0.137	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.131	U	0.0948	0.0956	1.00	0.137	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	95.3		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	95.3		30 - 110					08/31/23 10:39	09/25/23 09:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.0486	U	0.306	0.306	1.00	0.589	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.0486	U	0.306	0.306	1.00	0.589	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.0486	U	0.306	0.306	1.00	0.589	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	95.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	95.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	79.3		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.131	U	0.320	0.321	5.00	0.589	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.131	U	0.320	0.321	5.00	0.589	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.131	U	0.320	0.321	5.00	0.589	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_35

Date Collected: 08/24/23 10:10

Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-27

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0626	U	0.0710	0.0712	1.00	0.114	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.0626	U	0.0710	0.0712	1.00	0.114	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.0626	U	0.0710	0.0712	1.00	0.114	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	93.5		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	93.5		30 - 110					08/31/23 10:39	09/25/23 09:36	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.235	U	0.369	0.370	1.00	0.626	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.235	U	0.369	0.370	1.00	0.626	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.235	U	0.369	0.370	1.00	0.626	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	93.5		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	93.5		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	82.2		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.297	U	0.376	0.377	5.00	0.626	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.297	U	0.376	0.377	5.00	0.626	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.297	U	0.376	0.377	5.00	0.626	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_07
Date Collected: 08/24/23 14:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-28
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.119	0.122	1.00	0.121	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.311		0.119	0.122	1.00	0.121	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.311		0.119	0.122	1.00	0.121	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.311		0.119	0.122	1.00	0.121	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.311		0.119	0.122	1.00	0.121	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	88.8		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	88.8		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	88.8		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	88.8		30 - 110					08/31/23 10:39	09/25/23 09:36	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	0.170	U	0.371	0.371	1.00	0.647	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.170	U	0.371	0.371	1.00	0.647	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.170	U	0.371	0.371	1.00	0.647	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.170	U	0.371	0.371	1.00	0.647	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	0.170	U	0.371	0.371	1.00	0.647	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	88.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	88.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	88.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	88.8		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	77.4		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.481	U	0.390	0.391	5.00	0.647	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.481	U	0.390	0.391	5.00	0.647	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.481	U	0.390	0.391	5.00	0.647	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.481	U	0.390	0.391	5.00	0.647	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.481	U	0.390	0.391	5.00	0.647	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.241		0.108	0.110	1.00	0.125	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.241		0.108	0.110	1.00	0.125	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.241		0.108	0.110	1.00	0.125	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.241		0.108	0.110	1.00	0.125	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Radium-226	0.241		0.108	0.110	1.00	0.125	pCi/L	08/31/23 10:39	09/25/23 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	91.6		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	91.6		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	91.6		30 - 110					08/31/23 10:39	09/25/23 09:36	1
Ba Carrier	91.6		30 - 110					08/31/23 10:39	09/25/23 09:36	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	-0.128	U	0.280	0.280	1.00	0.572	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.128	U	0.280	0.280	1.00	0.572	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.128	U	0.280	0.280	1.00	0.572	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.128	U	0.280	0.280	1.00	0.572	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Radium-228	-0.128	U	0.280	0.280	1.00	0.572	pCi/L	08/31/23 10:56	09/19/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	91.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	91.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	91.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Ba Carrier	91.6		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:24	1
Y Carrier	81.9		30 - 110					08/31/23 10:56	09/19/23 12:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.241	U	0.300	0.301	5.00	0.572	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.241	U	0.300	0.301	5.00	0.572	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.241	U	0.300	0.301	5.00	0.572	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.241	U	0.300	0.301	5.00	0.572	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.241	U	0.300	0.301	5.00	0.572	pCi/L		09/27/23 15:51	1

Client Sample Results

245 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08&D

Lab Sample ID: 500-238579-32

Date Collected: 08/24/23 12:25

Matrix: Water

Date Received: 08/25/23 09:32

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	0.162		0.107	0.108	1.00	0.145	pCi/L	08/31/23 10:58	09/22/23 18:49	1
Radium-226	0.162		0.107	0.108	1.00	0.145	pCi/L	08/31/23 10:58	09/22/23 18:49	1
Radium-226	0.162		0.107	0.108	1.00	0.145	pCi/L	08/31/23 10:58	09/22/23 18:49	1
Radium-226	0.162		0.107	0.108	1.00	0.145	pCi/L	08/31/23 10:58	09/22/23 18:49	1
Radium-226	0.162		0.107	0.108	1.00	0.145	pCi/L	08/31/23 10:58	09/22/23 18:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:49	1
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:49	1
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:49	1
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:49	1
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:49	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U	0.348	0.350	1.00	0.543	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.411	U	0.348	0.350	1.00	0.543	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.411	U	0.348	0.350	1.00	0.543	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.411	U	0.348	0.350	1.00	0.543	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.411	U	0.348	0.350	1.00	0.543	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.573		0.364	0.366	5.00	0.543	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.573		0.364	0.366	5.00	0.543	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.573		0.364	0.366	5.00	0.543	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.573		0.364	0.366	5.00	0.543	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.573		0.364	0.366	5.00	0.543	pCi/L		09/27/23 15:51	1

Client Sample Results

245 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08_FD

Lab Sample ID: 500-238579-34

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

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	0.434		0.153	0.158	1.00	0.148	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Radium-226	0.434		0.153	0.158	1.00	0.148	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Radium-226	0.434		0.153	0.158	1.00	0.148	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Radium-226	0.434		0.153	0.158	1.00	0.148	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Radium-226	0.434		0.153	0.158	1.00	0.148	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/31/23 10:58	09/22/23 18:50	1
Ba Carrier	91.6		30 - 110					08/31/23 10:58	09/22/23 18:50	1
Ba Carrier	91.6		30 - 110					08/31/23 10:58	09/22/23 18:50	1
Ba Carrier	91.6		30 - 110					08/31/23 10:58	09/22/23 18:50	1
Ba Carrier	91.6		30 - 110					08/31/23 10:58	09/22/23 18:50	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	0.470	U	0.399	0.401	1.00	0.629	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.470	U	0.399	0.401	1.00	0.629	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.470	U	0.399	0.401	1.00	0.629	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.470	U	0.399	0.401	1.00	0.629	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Radium-228	0.470	U	0.399	0.401	1.00	0.629	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	91.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	91.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	91.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Ba Carrier	91.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.904		0.427	0.431	5.00	0.629	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.904		0.427	0.431	5.00	0.629	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.904		0.427	0.431	5.00	0.629	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.904		0.427	0.431	5.00	0.629	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.904		0.427	0.431	5.00	0.629	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW01_pore

Lab Sample ID: 500-238579-36

Date Collected: 08/24/23 12:15

Matrix: Water

Date Received: 08/25/23 09:32

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.299	0.299	1.00	0.558	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/31/23 10:58	09/22/23 18:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.40	U G	1.38	1.39	1.00	2.22	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	30.3		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	85.6		30 - 110					08/31/23 11:08	09/19/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.51	U	1.41	1.42	5.00	2.22	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW01_pore_EB

Lab Sample ID: 500-238579-37

Date Collected: 08/24/23 12:15

Matrix: Water

Date Received: 08/25/23 09:32

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	0.00189	U	0.0740	0.0740	1.00	0.149	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					08/31/23 10:58	09/22/23 18:50	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	-0.00858	U	0.262	0.262	1.00	0.498	pCi/L	08/31/23 11:08	09/19/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110					08/31/23 11:08	09/19/23 12:11	1
Y Carrier	87.5		30 - 110					08/31/23 11:08	09/19/23 12:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00189	U	0.272	0.272	5.00	0.498	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845062
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW02_pore

Lab Sample ID: 500-238579-38

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131	U	0.144	0.144	1.00	0.232	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.3		30 - 110					08/31/23 10:58	09/22/23 18:50	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	0.293	U	0.399	0.400	1.00	0.670	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.3		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	83.7		30 - 110					08/31/23 11:08	09/19/23 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	0.424	U	0.424	0.425	5.00	0.670	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW02_pore_EB

Lab Sample ID: 500-238579-39

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

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	0.188		0.119	0.120	1.00	0.161	pCi/L	08/31/23 10:58	09/22/23 18:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 10:58	09/22/23 18:50	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	-0.257	U	0.283	0.284	1.00	0.600	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 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	0.188	U	0.307	0.308	5.00	0.600	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW03_pore

Lab Sample ID: 500-238579-40

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

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	0.0406	U	0.0691	0.0692	1.00	0.119	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/31/23 10:58	09/22/23 21:06	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	0.376	U	0.399	0.401	1.00	0.650	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	81.5		30 - 110					08/31/23 11:08	09/19/23 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	0.417	U	0.405	0.407	5.00	0.650	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW03_pore_EB

Lab Sample ID: 500-238579-41

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

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	0.0195	U	0.0635	0.0636	1.00	0.114	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					08/31/23 10:58	09/22/23 21:06	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	0.187	U	0.374	0.375	1.00	0.645	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	81.5		30 - 110					08/31/23 11:08	09/19/23 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	0.207	U	0.379	0.380	5.00	0.645	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845062
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_257_FB

Lab Sample ID: 500-238579-42

Date Collected: 08/25/23 12:00

Matrix: Water

Date Received: 08/25/23 15:00

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	0.0356	U	0.0546	0.0547	1.00	0.0932	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/31/23 10:58	09/22/23 21:06	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	0.202	U	0.296	0.297	1.00	0.501	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 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	0.238	U	0.301	0.302	5.00	0.501	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_34
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-44
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	0.324		0.0935	0.0980	1.00	0.0946	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.324		0.0935	0.0980	1.00	0.0946	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.324		0.0935	0.0980	1.00	0.0946	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	99.0		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	99.0		30 - 110					08/31/23 10:58	09/22/23 21:06	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	0.499	U	0.371	0.374	1.00	0.569	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Radium-228	0.499	U	0.371	0.374	1.00	0.569	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Radium-228	0.499	U	0.371	0.374	1.00	0.569	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Ba Carrier	99.0		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Ba Carrier	99.0		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	82.6		30 - 110					08/31/23 11:08	09/19/23 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	0.823		0.383	0.387	5.00	0.569	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.823		0.383	0.387	5.00	0.569	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.823		0.383	0.387	5.00	0.569	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_49

Lab Sample ID: 500-238579-45

Date Collected: 08/25/23 10:05

Matrix: Water

Date Received: 08/25/23 15:00

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	0.235		0.0893	0.0918	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.235		0.0893	0.0918	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.235		0.0893	0.0918	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	91.3		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	91.3		30 - 110					08/31/23 10:58	09/22/23 21:06	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.558		0.363	0.366	1.00	0.535	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Radium-228	0.558		0.363	0.366	1.00	0.535	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Radium-228	0.558		0.363	0.366	1.00	0.535	pCi/L	08/31/23 11:08	09/19/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Ba Carrier	91.3		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Ba Carrier	91.3		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	84.9		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	84.9		30 - 110					08/31/23 11:08	09/19/23 12:13	1
Y Carrier	84.9		30 - 110					08/31/23 11:08	09/19/23 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	0.793		0.374	0.377	5.00	0.535	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.793		0.374	0.377	5.00	0.535	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.793		0.374	0.377	5.00	0.535	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_22
Date Collected: 08/25/23 08:50
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-46
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	0.0944	U	0.0710	0.0715	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.0944	U	0.0710	0.0715	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Radium-226	0.0944	U	0.0710	0.0715	1.00	0.107	pCi/L	08/31/23 10:58	09/22/23 21:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	96.0		30 - 110					08/31/23 10:58	09/22/23 21:06	1
Ba Carrier	96.0		30 - 110					08/31/23 10:58	09/22/23 21:06	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	0.238	U	0.297	0.297	1.00	0.492	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.238	U	0.297	0.297	1.00	0.492	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.238	U	0.297	0.297	1.00	0.492	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	96.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	96.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	86.7		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	86.7		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	86.7		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.333	U	0.305	0.305	5.00	0.492	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.333	U	0.305	0.305	5.00	0.492	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.333	U	0.305	0.305	5.00	0.492	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_50
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-47
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	0.289		0.107	0.110	1.00	0.100	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Radium-226	0.289		0.107	0.110	1.00	0.100	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Radium-226	0.289		0.107	0.110	1.00	0.100	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/31/23 10:58	09/25/23 09:25	1
Ba Carrier	95.0		30 - 110					08/31/23 10:58	09/25/23 09:25	1
Ba Carrier	95.0		30 - 110					08/31/23 10:58	09/25/23 09:25	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	0.463	U	0.355	0.357	1.00	0.545	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.463	U	0.355	0.357	1.00	0.545	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.463	U	0.355	0.357	1.00	0.545	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	95.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	95.0		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	84.1		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	84.1		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	84.1		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.752		0.371	0.374	5.00	0.545	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.752		0.371	0.374	5.00	0.545	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.752		0.371	0.374	5.00	0.545	pCi/L		09/27/23 15:51	1

Client Sample Results

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
Job ID: 845-002
SDG: HEN_SUP_000_0 RAD

Client Sample ID: 845_803_FB

Lab Sample ID: 500-238579-50

Date Collected: 08/28/23 12:00

Matrix: Water

Date Received: 08/28/23 15:00

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	0.00967	U	0.0532	0.0532	1.00	0.107	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					08/31/23 10:58	09/25/23 09:25	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	-0.0520	U	0.256	0.256	1.00	0.504	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	83.7		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00967	U	0.261	0.261	5.00	0.504	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_18#S

Lab Sample ID: 500-238579-51

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.000	U	0.0558	0.0558	1.00	0.117	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Radium-226	0.000	U	0.0558	0.0558	1.00	0.117	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Radium-226	0.000	U	0.0558	0.0558	1.00	0.117	pCi/L	08/31/23 10:58	09/25/23 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					08/31/23 10:58	09/25/23 09:25	1
Ba Carrier	93.3		30 - 110					08/31/23 10:58	09/25/23 09:25	1
Ba Carrier	93.3		30 - 110					08/31/23 10:58	09/25/23 09:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.245	U	0.311	0.312	1.00	0.517	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.245	U	0.311	0.312	1.00	0.517	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.245	U	0.311	0.312	1.00	0.517	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	93.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	93.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.245	U	0.316	0.317	5.00	0.517	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.245	U	0.316	0.317	5.00	0.517	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.245	U	0.316	0.317	5.00	0.517	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_03R
Date Collected: 08/28/23 09:45
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-53
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0552	U	0.0678	0.0680	1.00	0.111	pCi/L	08/31/23 11:10	09/25/23 09:22	1
Radium-226	0.0552	U	0.0678	0.0680	1.00	0.111	pCi/L	08/31/23 11:10	09/25/23 09:22	1
Radium-226	0.0552	U	0.0678	0.0680	1.00	0.111	pCi/L	08/31/23 11:10	09/25/23 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					08/31/23 11:10	09/25/23 09:22	1
Ba Carrier	89.3		30 - 110					08/31/23 11:10	09/25/23 09:22	1
Ba Carrier	89.3		30 - 110					08/31/23 11:10	09/25/23 09:22	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.414	U	0.360	0.362	1.00	0.821	pCi/L	08/31/23 11:15	09/18/23 15:35	1
Radium-228	-0.414	U	0.360	0.362	1.00	0.821	pCi/L	08/31/23 11:15	09/18/23 15:35	1
Radium-228	-0.414	U	0.360	0.362	1.00	0.821	pCi/L	08/31/23 11:15	09/18/23 15:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Ba Carrier	89.3		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Ba Carrier	89.3		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Y Carrier	84.5		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Y Carrier	84.5		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Y Carrier	84.5		30 - 110					08/31/23 11:15	09/18/23 15:35	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.0552	U	0.366	0.368	5.00	0.821	pCi/L		09/26/23 15:38	1
Radium 226 and 228	0.0552	U	0.366	0.368	5.00	0.821	pCi/L		09/26/23 15:38	1
Radium 226 and 228	0.0552	U	0.366	0.368	5.00	0.821	pCi/L		09/26/23 15:38	1

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_45#S

Lab Sample ID: 500-238579-56

Date Collected: 08/28/23 11:15

Matrix: Water

Date Received: 08/28/23 15:00

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	0.226		0.117	0.119	1.00	0.133	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Radium-226	0.226		0.117	0.119	1.00	0.133	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Radium-226	0.226		0.117	0.119	1.00	0.133	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 10:58	09/25/23 09:28	1
Ba Carrier	93.5		30 - 110					08/31/23 10:58	09/25/23 09:28	1
Ba Carrier	93.5		30 - 110					08/31/23 10:58	09/25/23 09:28	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	0.297	U	0.409	0.410	1.00	0.687	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.297	U	0.409	0.410	1.00	0.687	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.297	U	0.409	0.410	1.00	0.687	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	93.5		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	93.5		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	81.9		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.522	U	0.425	0.427	5.00	0.687	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.522	U	0.425	0.427	5.00	0.687	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.522	U	0.425	0.427	5.00	0.687	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845062
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_16

Lab Sample ID: 500-238579-58

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

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	0.0461	U	0.0589	0.0591	1.00	0.0975	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Radium-226	0.0461	U	0.0589	0.0591	1.00	0.0975	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.3		30 - 110					08/31/23 10:58	09/25/23 09:28	1
Ba Carrier	99.3		30 - 110					08/31/23 10:58	09/25/23 09:28	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	0.460	U	0.343	0.345	1.00	0.522	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Radium-228	0.460	U	0.343	0.345	1.00	0.522	pCi/L	08/31/23 11:08	09/19/23 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Ba Carrier	99.3		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 12:17	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 12:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.506	U	0.348	0.350	5.00	0.522	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.506	U	0.348	0.350	5.00	0.522	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0741	U	0.0682	0.0685	1.00	0.101	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Radium-226	0.0741	U	0.0682	0.0685	1.00	0.101	pCi/L	08/31/23 10:58	09/25/23 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 10:58	09/25/23 09:28	1
Ba Carrier	93.5		30 - 110					08/31/23 10:58	09/25/23 09:28	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.136	U	0.327	0.327	1.00	0.574	pCi/L	08/31/23 11:08	09/19/23 12:18	1
Radium-228	0.136	U	0.327	0.327	1.00	0.574	pCi/L	08/31/23 11:08	09/19/23 12:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/31/23 11:08	09/19/23 12:18	1
Ba Carrier	93.5		30 - 110					08/31/23 11:08	09/19/23 12:18	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 12:18	1
Y Carrier	83.4		30 - 110					08/31/23 11:08	09/19/23 12:18	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium 226 and 228	0.210	U	0.334	0.334	5.00	0.574	pCi/L		09/27/23 15:51	1
Radium 226 and 228	0.210	U	0.334	0.334	5.00	0.574	pCi/L		09/27/23 15:51	1

Client Sample Results

ATTACHMENT B.
 245 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845092
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_17-FD
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-60
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	0.0774	U	0.0770	0.0773	1.00	0.121	pCi/L	08/31/23 11:10	09/25/23 09:22	1
Radium-226	0.0774	U	0.0770	0.0773	1.00	0.121	pCi/L	08/31/23 11:10	09/25/23 09:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					08/31/23 11:10	09/25/23 09:22	1
Ba Carrier	91.1		30 - 110					08/31/23 11:10	09/25/23 09:22	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.809	U G	0.691	0.695	1.00	1.09	pCi/L	08/31/23 11:15	09/18/23 15:35	1
Radium-228	0.809	U G	0.691	0.695	1.00	1.09	pCi/L	08/31/23 11:15	09/18/23 15:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Ba Carrier	91.1		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Y Carrier	77.8		30 - 110					08/31/23 11:15	09/18/23 15:35	1
Y Carrier	77.8		30 - 110					08/31/23 11:15	09/18/23 15:35	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	0.886	U	0.695	0.699	5.00	1.09	pCi/L		09/26/23 15:38	1
Radium 226 and 228	0.886	U	0.695	0.699	5.00	1.09	pCi/L		09/26/23 15:38	1

Definitions/Glossary

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

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, 2023
HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Rad

Prep Batch: 626172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-1	HEN_21R	Total/NA	Water	PrecSep-21	
500-238579-2	HEN_22&D	Total/NA	Water	PrecSep-21	
500-238579-3	HEN_23	Total/NA	Water	PrecSep-21	
500-238579-4	HEN_23_FD	Total/NA	Water	PrecSep-21	
500-238579-5	HEN_32	Total/NA	Water	PrecSep-21	
500-238579-6	HEN_51	Total/NA	Water	PrecSep-21	
500-238579-7	HEN_25	Total/NA	Water	PrecSep-21	
500-238579-8	HEN_26	Total/NA	Water	PrecSep-21	
500-238579-13	HEN_18&D	Total/NA	Water	PrecSep-21	
500-238579-15	HEN_12	Total/NA	Water	PrecSep-21	
500-238579-16	HEN_13	Total/NA	Water	PrecSep-21	
500-238579-18	HEN_46	Total/NA	Water	PrecSep-21	
500-238579-19	HEN_47	Total/NA	Water	PrecSep-21	
500-238579-20	HEN_54	Total/NA	Water	PrecSep-21	
500-238579-25	HEN_52	Total/NA	Water	PrecSep-21	
500-238579-26	HEN_27	Total/NA	Water	PrecSep-21	
500-238579-27	HEN_35	Total/NA	Water	PrecSep-21	
500-238579-28	HEN_07	Total/NA	Water	PrecSep-21	
500-238579-30	HEN_08	Total/NA	Water	PrecSep-21	
MB 160-626172/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626172/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238579-8 MS	HEN_26_MS	Total/NA	Water	PrecSep-21	
500-238579-8 MSD	HEN_26_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 626177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-1	HEN_21R	Total/NA	Water	PrecSep_0	
500-238579-2	HEN_22&D	Total/NA	Water	PrecSep_0	
500-238579-3	HEN_23	Total/NA	Water	PrecSep_0	
500-238579-4	HEN_23_FD	Total/NA	Water	PrecSep_0	
500-238579-5	HEN_32	Total/NA	Water	PrecSep_0	
500-238579-6	HEN_51	Total/NA	Water	PrecSep_0	
500-238579-7	HEN_25	Total/NA	Water	PrecSep_0	
500-238579-8	HEN_26	Total/NA	Water	PrecSep_0	
500-238579-13	HEN_18&D	Total/NA	Water	PrecSep_0	
500-238579-15	HEN_12	Total/NA	Water	PrecSep_0	
500-238579-16	HEN_13	Total/NA	Water	PrecSep_0	
500-238579-18	HEN_46	Total/NA	Water	PrecSep_0	
500-238579-19	HEN_47	Total/NA	Water	PrecSep_0	
500-238579-20	HEN_54	Total/NA	Water	PrecSep_0	
500-238579-25	HEN_52	Total/NA	Water	PrecSep_0	
500-238579-26	HEN_27	Total/NA	Water	PrecSep_0	
500-238579-27	HEN_35	Total/NA	Water	PrecSep_0	
500-238579-28	HEN_07	Total/NA	Water	PrecSep_0	
500-238579-30	HEN_08	Total/NA	Water	PrecSep_0	
MB 160-626177/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626177/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238579-8 MS	HEN_26_MS	Total/NA	Water	PrecSep_0	
500-238579-8 MSD	HEN_26_MSD	Total/NA	Water	PrecSep_0	

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNENPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Rad

Prep Batch: 626178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-32	HEN_08&D	Total/NA	Water	PrecSep-21	
500-238579-34	HEN_08_FD	Total/NA	Water	PrecSep-21	
500-238579-36	HEN_XPW01_pore	Total/NA	Water	PrecSep-21	
500-238579-37	HEN_XPW01_pore_EB	Total/NA	Water	PrecSep-21	
500-238579-38	HEN_XPW02_pore	Total/NA	Water	PrecSep-21	
500-238579-39	HEN_XPW02_pore_EB	Total/NA	Water	PrecSep-21	
500-238579-40	HEN_XPW03_pore	Total/NA	Water	PrecSep-21	
500-238579-41	HEN_XPW03_pore_EB	Total/NA	Water	PrecSep-21	
500-238579-42	HEN_257_FB	Total/NA	Water	PrecSep-21	
500-238579-44	HEN_34	Total/NA	Water	PrecSep-21	
500-238579-45	HEN_49	Total/NA	Water	PrecSep-21	
500-238579-46	HEN_22	Total/NA	Water	PrecSep-21	
500-238579-47	HEN_50	Total/NA	Water	PrecSep-21	
500-238579-50	845_803_FB	Total/NA	Water	PrecSep-21	
500-238579-51	HEN_18#S	Total/NA	Water	PrecSep-21	
500-238579-56	HEN_45#S	Total/NA	Water	PrecSep-21	
500-238579-58	HEN_16	Total/NA	Water	PrecSep-21	
500-238579-59	HEN_17	Total/NA	Water	PrecSep-21	
MB 160-626178/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626178/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238579-45 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	
500-238579-45 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 626179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-32	HEN_08&D	Total/NA	Water	PrecSep_0	
500-238579-34	HEN_08_FD	Total/NA	Water	PrecSep_0	
500-238579-36	HEN_XPW01_pore	Total/NA	Water	PrecSep_0	
500-238579-37	HEN_XPW01_pore_EB	Total/NA	Water	PrecSep_0	
500-238579-38	HEN_XPW02_pore	Total/NA	Water	PrecSep_0	
500-238579-39	HEN_XPW02_pore_EB	Total/NA	Water	PrecSep_0	
500-238579-40	HEN_XPW03_pore	Total/NA	Water	PrecSep_0	
500-238579-41	HEN_XPW03_pore_EB	Total/NA	Water	PrecSep_0	
500-238579-42	HEN_257_FB	Total/NA	Water	PrecSep_0	
500-238579-44	HEN_34	Total/NA	Water	PrecSep_0	
500-238579-45	HEN_49	Total/NA	Water	PrecSep_0	
500-238579-46	HEN_22	Total/NA	Water	PrecSep_0	
500-238579-47	HEN_50	Total/NA	Water	PrecSep_0	
500-238579-50	845_803_FB	Total/NA	Water	PrecSep_0	
500-238579-51	HEN_18#S	Total/NA	Water	PrecSep_0	
500-238579-56	HEN_45#S	Total/NA	Water	PrecSep_0	
500-238579-58	HEN_16	Total/NA	Water	PrecSep_0	
500-238579-59	HEN_17	Total/NA	Water	PrecSep_0	
MB 160-626179/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626179/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238579-45 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-238579-45 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 626180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-53	HEN_03R	Total/NA	Water	PrecSep-21	

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND

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

Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

Rad (Continued)

Prep Batch: 626180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-60	HEN_17-FD	Total/NA	Water	PrecSep-21	
MB 160-626180/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626180/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-238579-53 MS	HEN_03R_MS	Total/NA	Water	PrecSep-21	
500-238579-53 MSD	HEN_03R_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 626182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238579-53	HEN_03R	Total/NA	Water	PrecSep_0	
500-238579-60	HEN_17-FD	Total/NA	Water	PrecSep_0	
MB 160-626182/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626182/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-238579-53 MS	HEN_03R_MS	Total/NA	Water	PrecSep_0	
500-238579-53 MSD	HEN_03R_MSD	Total/NA	Water	PrecSep_0	



QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-626172/1-A
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626172

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03516	U	0.0558	0.0559	1.00	0.0976	pCi/L	08/31/23 10:39	09/25/23 09:27	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					08/31/23 10:39	09/25/23 09:27	1

Lab Sample ID: LCS 160-626172/2-A
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626172

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	10.33	1.10	1.00	0.102	pCi/L	91	75 - 125
Carrier	LCS		Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							

Lab Sample ID: 500-238579-8 MS
 Matrix: Water
 Analysis Batch: 629491

Client Sample ID: HEN_26_MS
 Prep Type: Total/NA
 Prep Batch: 626172

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.306		11.3	10.96		1.17	1.00	0.112	pCi/L	95	60 - 140
Carrier	MS		Limits								
Ba Carrier	%Yield	Qualifier	30 - 110								

Lab Sample ID: 500-238579-8 MSD
 Matrix: Water
 Analysis Batch: 629491

Client Sample ID: HEN_26_MSD
 Prep Type: Total/NA
 Prep Batch: 626172

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.306		11.4	10.84		1.16	1.00	0.121	pCi/L	92	60 - 140	0.05	1
Carrier	MSD		Limits										
Ba Carrier	%Yield	Qualifier	30 - 110										

Lab Sample ID: MB 160-626178/1-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626178

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01063	U	0.0857	0.0857	1.00	0.166	pCi/L	08/31/23 10:58	09/22/23 18:49	1

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QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: MB 160-626178/1-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626178

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	99.3		30 - 110

Prepared	Analyzed	Dil Fac
08/31/23 10:58	09/22/23 18:49	1

Lab Sample ID: LCS 160-626178/2-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626178

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.95		1.19	1.00	0.166	pCi/L	97	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		30 - 110

Lab Sample ID: 500-238579-45 MS
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: HEN_49_MS
 Prep Type: Total/NA
 Prep Batch: 626178

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.235		11.4	11.42		1.13	1.00	0.107	pCi/L	99	60 - 140

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	90.6		30 - 110

Lab Sample ID: 500-238579-45 MSD
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: HEN_49_MSD
 Prep Type: Total/NA
 Prep Batch: 626178

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	0.235		11.4	10.73		1.08	1.00	0.133	pCi/L	92	60 - 140	0.31	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	87.1		30 - 110

Lab Sample ID: MB 160-626180/1-A
 Matrix: Water
 Analysis Batch: 629275

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626180

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02184	U	0.0535	0.0535	1.00	0.128	pCi/L	08/31/23 11:10	09/22/23 14:34	1

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	94.8		30 - 110

Prepared	Analyzed	Dil Fac
08/31/23 11:10	09/22/23 14:34	1

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: LCS 160-626180/2-A
 Matrix: Water
 Analysis Batch: 629275

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626180

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-226	11.3	10.99		1.18	1.00	0.129	pCi/L	97	75	125
Carrier		LCS %Yield	LCS Qualifier	Limits						
Ba Carrier		94.0		30 - 110						

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA
 Prep Batch: 626180

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
											60	140
Radium-226	0.0552	U	11.4	10.03		1.07	1.00	0.110	pCi/L	88	60	140
Carrier		MS %Yield	MS Qualifier	Limits								
Ba Carrier		90.3		30 - 110								

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA
 Prep Batch: 626180

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit
											60	140	0.39	1
Radium-226	0.0552	U	11.4	10.90		1.15	1.00	0.147	pCi/L	95	60	140	0.39	1
Carrier		MSD %Yield	MSD Qualifier	Limits										
Ba Carrier		94.8		30 - 110										

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-626177/1-A
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626177

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								08/31/23 10:56	09/19/23 12:22	09/19/23 12:22	12:22	1
Radium-228	0.5950	U	0.421	0.425	1.00	0.643	pCi/L	08/31/23 10:56	09/19/23 12:22	09/19/23 12:22	12:22	1
Carrier		MB %Yield	MB Qualifier	Limits			Prepared		Analyzed		Dil Fac	
Ba Carrier		89.8		30 - 110			08/31/23 10:56		09/19/23 12:22		1	
Y Carrier		85.2		30 - 110			08/31/23 10:56		09/19/23 12:22		1	

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: LCS 160-626177/2-A
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626177

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits												
		Result	Qual																		
Radium-228	7.86	8.916		1.27	1.00	0.622	pCi/L	113	75 - 125												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>93.1</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>84.1</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>										Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	93.1		30 - 110	Y Carrier	84.1		30 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																		
Ba Carrier	93.1		30 - 110																		
Y Carrier	84.1		30 - 110																		

Lab Sample ID: 500-238579-8 MS
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: HEN_26_MS
 Prep Type: Total/NA
 Prep Batch: 626177

Analyte	Sample Result	Sample Qual	Spike Added	MS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits												
				Result	Qual																		
Radium-228	-0.320	U	7.81	9.721		1.43	1.00	0.665	pCi/L	124	60 - 140												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MS %Yield</th> <th>MS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>84.4</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>77.0</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>												Carrier	MS %Yield	MS Qualifier	Limits	Ba Carrier	84.4		30 - 110	Y Carrier	77.0		30 - 110
Carrier	MS %Yield	MS Qualifier	Limits																				
Ba Carrier	84.4		30 - 110																				
Y Carrier	77.0		30 - 110																				

Lab Sample ID: 500-238579-8 MSD
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: HEN_26_MSD
 Prep Type: Total/NA
 Prep Batch: 626177

Analyte	Sample Result	Sample Qual	Spike Added	MSD		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit												
				Result	Qual																				
Radium-228	-0.320	U	7.91	9.754		1.42	1.00	0.783	pCi/L	123	60 - 140	0.01	1												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MSD %Yield</th> <th>MSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>88.3</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>81.9</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>														Carrier	MSD %Yield	MSD Qualifier	Limits	Ba Carrier	88.3		30 - 110	Y Carrier	81.9		30 - 110
Carrier	MSD %Yield	MSD Qualifier	Limits																						
Ba Carrier	88.3		30 - 110																						
Y Carrier	81.9		30 - 110																						

Lab Sample ID: MB 160-626179/1-A
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626179

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac																					
											Radium-228	-0.09226	U	0.278	0.278	1.00	0.547	pCi/L	08/31/23 11:08	09/19/23 12:10	1										
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MB %Yield</th> <th>MB Qualifier</th> <th>Limits</th> <th>Prepared</th> <th>Analyzed</th> <th>Dil Fac</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>99.3</td> <td></td> <td>30 - 110</td> <td>08/31/23 11:08</td> <td>09/19/23 12:10</td> <td>1</td> </tr> <tr> <td>Y Carrier</td> <td>82.2</td> <td></td> <td>30 - 110</td> <td>08/31/23 11:08</td> <td>09/19/23 12:10</td> <td>1</td> </tr> </tbody> </table>											Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac	Ba Carrier	99.3		30 - 110	08/31/23 11:08	09/19/23 12:10	1	Y Carrier	82.2		30 - 110	08/31/23 11:08	09/19/23 12:10	1
Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac																									
Ba Carrier	99.3		30 - 110	08/31/23 11:08	09/19/23 12:10	1																									
Y Carrier	82.2		30 - 110	08/31/23 11:08	09/19/23 12:10	1																									

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: LCS 160-626179/2-A
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626179

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits													
									75	125												
Radium-228	7.86	8.022		1.13	1.00	0.476	pCi/L	102	75	125												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>100</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>87.5</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>											Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	100		30 - 110	Y Carrier	87.5		30 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																			
Ba Carrier	100		30 - 110																			
Y Carrier	87.5		30 - 110																			

Lab Sample ID: 500-238579-45 MS
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: HEN_49_MS
 Prep Type: Total/NA
 Prep Batch: 626179

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits													
											60	140												
Radium-228	0.558		7.88	8.928		1.30	1.00	0.617	pCi/L	106	60	140												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MS %Yield</th> <th>MS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>90.6</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>79.6</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>													Carrier	MS %Yield	MS Qualifier	Limits	Ba Carrier	90.6		30 - 110	Y Carrier	79.6		30 - 110
Carrier	MS %Yield	MS Qualifier	Limits																					
Ba Carrier	90.6		30 - 110																					
Y Carrier	79.6		30 - 110																					

Lab Sample ID: 500-238579-45 MSD
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: HEN_49_MSD
 Prep Type: Total/NA
 Prep Batch: 626179

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	Limit												
											60	140	0.01	1												
Radium-228	0.558		7.91	8.905		1.29	1.00	0.616	pCi/L	105	60	140	0.01	1												
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MSD %Yield</th> <th>MSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>87.1</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>84.1</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table>															Carrier	MSD %Yield	MSD Qualifier	Limits	Ba Carrier	87.1		30 - 110	Y Carrier	84.1		30 - 110
Carrier	MSD %Yield	MSD Qualifier	Limits																							
Ba Carrier	87.1		30 - 110																							
Y Carrier	84.1		30 - 110																							

Lab Sample ID: MB 160-626182/1-A
 Matrix: Water
 Analysis Batch: 628632

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626182

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac																					
								08/31/23 11:15	09/18/23 12:29	09/18/23 12:29	10/11/2023	1																					
Radium-228	0.08319	U	0.303	0.304	1.00	0.545	pCi/L	08/31/23 11:15	09/18/23 12:29	09/18/23 12:29	10/11/2023	1																					
<table border="1"> <thead> <tr> <th>Carrier</th> <th>MB %Yield</th> <th>MB Qualifier</th> <th>Limits</th> <th>Prepared</th> <th>Analyzed</th> <th>Dil Fac</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>94.8</td> <td></td> <td>30 - 110</td> <td>08/31/23 11:15</td> <td>09/18/23 12:29</td> <td>1</td> </tr> <tr> <td>Y Carrier</td> <td>90.8</td> <td></td> <td>30 - 110</td> <td>08/31/23 11:15</td> <td>09/18/23 12:29</td> <td>1</td> </tr> </tbody> </table>													Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac	Ba Carrier	94.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1	Y Carrier	90.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1
Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac																											
Ba Carrier	94.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1																											
Y Carrier	90.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1																											

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023

HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10

SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: LCS 160-626182/2-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626182

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	7.87	8.699		1.26	1.00	0.571	pCi/L	111	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	94.0		30 - 110							
Y Carrier	81.5		30 - 110							

Lab Sample ID: 500-238579-53 MS
Matrix: Water
Analysis Batch: 628632

Client Sample ID: HEN_03R_MS
Prep Type: Total/NA
Prep Batch: 626182

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
											60	140
Radium-228	-0.414	U	7.89	8.647		1.46	1.00	0.860	pCi/L	110	60	140
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	90.3		30 - 110									
Y Carrier	80.0		30 - 110									

Lab Sample ID: 500-238579-53 MSD
Matrix: Water
Analysis Batch: 628632

Client Sample ID: HEN_03R_MSD
Prep Type: Total/NA
Prep Batch: 626182

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
											60	140	0.15	1
Radium-228	-0.414	U	7.91	8.231		1.33	1.00	0.739	pCi/L	104	60	140	0.15	1
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	94.8		30 - 110											
Y Carrier	89.3		30 - 110											

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_21R
Date Collected: 08/22/23 13:45
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:27
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_22&D
Date Collected: 08/22/23 09:10
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:28
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_23
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:28
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_23_FD
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:34
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_32
Date Collected: 08/22/23 11:15
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:34
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_51
Date Collected: 08/22/23 15:56
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:34
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_25
Date Collected: 08/22/23 14:30
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:34
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_26
Date Collected: 08/22/23 15:35
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:34
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_18&D
Date Collected: 08/23/23 14:05
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:35
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_12
Date Collected: 08/23/23 10:10
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:35
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_13
Date Collected: 08/23/23 11:25
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:35
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_46
Date Collected: 08/23/23 08:55
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:35
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:23
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_47
Date Collected: 08/23/23 15:30
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_54
Date Collected: 08/23/23 13:50
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629491	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629493	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_27
Date Collected: 08/24/23 09:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629493	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_35
Date Collected: 08/24/23 10:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629493	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_07
Date Collected: 08/24/23 14:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629493	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626172	KAC	EET SL	08/31/23 10:39
Total/NA	Analysis	903.0		1	629493	FLC	EET SL	09/25/23 09:36
Total/NA	Prep	PrecSep_0			626177	KAC	EET SL	08/31/23 10:56
Total/NA	Analysis	904.0		1	628709	SCB	EET SL	09/19/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_08&D
Date Collected: 08/24/23 12:25
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:49
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_08_FD
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:50
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_XPW01_pore
Date Collected: 08/24/23 12:15
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:50
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_XPW01_pore_EB
Date Collected: 08/24/23 12:15
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:50
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_XPW02_pore
Date Collected: 08/24/23 13:45
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:50
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW02_pore_EB

Lab Sample ID: 500-238579-39

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 18:50
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_XPW03_pore

Lab Sample ID: 500-238579-40

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_XPW03_pore_EB

Lab Sample ID: 500-238579-41

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_257_FB

Lab Sample ID: 500-238579-42

Date Collected: 08/25/23 12:00

Matrix: Water

Date Received: 08/25/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_34
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-44
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_49
Date Collected: 08/25/23 10:05
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_22
Date Collected: 08/25/23 08:50
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-46
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629278	SCB	EET SL	09/22/23 21:06
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_50
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-47
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:25
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: 845_803_FB
Date Collected: 08/28/23 12:00
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:25
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_18#S
Date Collected: 08/28/23 08:35
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-51
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:25
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_03R
Date Collected: 08/28/23 09:45
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-53
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626180	KAC	EET SL	08/31/23 11:10
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:22
Total/NA	Prep	PrecSep_0			626182	KAC	EET SL	08/31/23 11:15
Total/NA	Analysis	904.0		1	628632	SCB	EET SL	09/18/23 15:35
Total/NA	Analysis	Ra226_Ra228 Pos		1	629684	SCB	EET SL	09/26/23 15:38

Client Sample ID: HEN_45#S
Date Collected: 08/28/23 11:15
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-56
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:28
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Lab Chronicle

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845002
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_16
Date Collected: 08/28/23 08:35
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-58
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:28
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628698	FLC	EET SL	09/19/23 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626178	KAC	EET SL	08/31/23 10:58
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:28
Total/NA	Prep	PrecSep_0			626179	KAC	EET SL	08/31/23 11:08
Total/NA	Analysis	904.0		1	628708	SCB	EET SL	09/19/23 12:18
Total/NA	Analysis	Ra226_Ra228 Pos		1	629874	EMH	EET SL	09/27/23 15:51

Client Sample ID: HEN_17-FD
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-60
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626180	KAC	EET SL	08/31/23 11:10
Total/NA	Analysis	903.0		1	629490	SCB	EET SL	09/25/23 09:22
Total/NA	Prep	PrecSep_0			626182	KAC	EET SL	08/31/23 11:15
Total/NA	Analysis	904.0		1	628632	SCB	EET SL	09/18/23 15:35
Total/NA	Analysis	Ra226_Ra228 Pos		1	629684	SCB	EET SL	09/26/23 15:38

Laboratory References:

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

Accreditation/Certification Summary

ATTACHMENT B.

15 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND

Job ID: 500-238579-10

SDG: HEN_SUP_000_0 RAD

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

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	COC No: 500-178415.1																																																																																																																																		
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 2																																																																																																																																		
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238579-21																																																																																																																																		
Address: 13715 Rider Trail North,		Analysis Requested																																																																																																																																				
City: Earth City	Due Date Requested: 9/25/2023	<table border="1"> <thead> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=water/oil, BT=tissue, AA=)</th> <th>Preservation Code:</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Z</th> <th>904.0/PreSep_0 Z</th> <th>R226_228FC_P1 Z</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr><td>HEN_12 (500-238579-15)</td><td>8/23/23</td><td>10:10 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_13 (500-238579-16)</td><td>8/23/23</td><td>11:25 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_46 (500-238579-18)</td><td>8/23/23</td><td>08:55 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_47 (500-238579-19)</td><td>8/23/23</td><td>15:30 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_54 (500-238579-20)</td><td>8/23/23</td><td>13:50 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_52 (500-238579-25)</td><td>8/24/23</td><td>09:40 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_07 (500-238579-28)</td><td>8/24/23</td><td>14:00 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_08 (500-238579-30)</td><td>8/24/23</td><td>15:10 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> <tr><td>HEN_08&D (500-238579-32)</td><td>8/24/23</td><td>12:25 Central</td><td>Water</td><td>Water</td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td>2</td><td></td></tr> </tbody> </table>			Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=tissue, AA=)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Z	904.0/PreSep_0 Z	R226_228FC_P1 Z	Total Number of Containers	Special Instructions/Note:	HEN_12 (500-238579-15)	8/23/23	10:10 Central	Water	Water		X	X	X	X		2		HEN_13 (500-238579-16)	8/23/23	11:25 Central	Water	Water		X	X	X	X		2		HEN_46 (500-238579-18)	8/23/23	08:55 Central	Water	Water		X	X	X	X		2		HEN_47 (500-238579-19)	8/23/23	15:30 Central	Water	Water		X	X	X	X		2		HEN_54 (500-238579-20)	8/23/23	13:50 Central	Water	Water		X	X	X	X		2		HEN_52 (500-238579-25)	8/24/23	09:40 Central	Water	Water		X	X	X	X		2		HEN_07 (500-238579-28)	8/24/23	14:00 Central	Water	Water		X	X	X	X		2		HEN_08 (500-238579-30)	8/24/23	15:10 Central	Water	Water		X	X	X	X		2		HEN_08&D (500-238579-32)	8/24/23	12:25 Central	Water	Water		X	X	X	X		2	
Sample ID (Lab ID)	Sample Date				Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=tissue, AA=)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Z	904.0/PreSep_0 Z	R226_228FC_P1 Z	Total Number of Containers	Special Instructions/Note:																																																																																																																							
HEN_12 (500-238579-15)	8/23/23				10:10 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_13 (500-238579-16)	8/23/23				11:25 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_46 (500-238579-18)	8/23/23				08:55 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_47 (500-238579-19)	8/23/23				15:30 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_54 (500-238579-20)	8/23/23				13:50 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_52 (500-238579-25)	8/24/23				09:40 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_07 (500-238579-28)	8/24/23				14:00 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_08 (500-238579-30)	8/24/23				15:10 Central	Water	Water		X	X	X	X		2																																																																																																																								
HEN_08&D (500-238579-32)	8/24/23	12:25 Central	Water	Water		X	X	X	X		2																																																																																																																											
City: Earth City	TAT Requested (days):	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:																																																																																																																																				
State, Zip: MO, 63045	PO #:	Analysis Requested																																																																																																																																				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:	Analysis Requested																																																																																																																																				
Email:	Project #:	Analysis Requested																																																																																																																																				
Project Name: HEN-23Q3	50021987	Analysis Requested																																																																																																																																				
Site:	SSOW#:	Analysis Requested																																																																																																																																				

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 HEN-845-803

ATTACHMENT B.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Romanow* Date/Time: *8/29/23 15:00*
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *EEEA* Date/Time: _____
 Received by: *Barbara Sharkey - Home Depo* Date/Time: *8/30/23 09:00*
 Received by: _____ Date/Time: _____

Company: *EEEA*
 Company: *Barbara Sharkey - Home Depo*
 Company: _____

Method of Shipment: _____
 Date: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:							
Client Contact:		Phone:	McCutcheon, Carlene	State of Origin:	500-178415-1							
Shipping/Receiving			E-Mail:	Illinois	Page 1 of 2							
Company:			Carlene.McCutcheon@et.eurofins.com	Accreditations Required (See note):	Job #: 500-238579-6							
Address:		Due Date Requested:	Preservation Codes:									
13715 Rider Trail North,		9/14/2023	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)									
City:		TAT Requested (days):	Analysis Requested									
Earth City			Total Number of containers									
State, Zip:			Perform M/MSD (Yes or No)									
MO, 63045			Field Filtered Sample (Yes or No)									
Phone:			903.0/PreSep_21 AF									
314-298-8566(Tel) 314-298-8757(Fax)			904.0/PreSep_0 AF									
Email:			R226_Z28GFC_P/AF									
Project Name:			Special Instructions/Note:									
HEN-23Q3			845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT, EAST TANK POND HEN-845-803									
Site:			Other:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water, B=soil, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	903.0/PreSep_21 AF	904.0/PreSep_0 AF	R226_Z28GFC_P/AF	Total Number of containers	Special Instructions/Note:
HEN_21R (500-238579-1)	8/22/23	13:45 Central		Water		X	X	X	X		2	
HEN_23 (500-238579-3)	8/22/23	11:20 Central		Water		X	X	X	X		2	
HEN_23_FD (500-238579-4)	8/22/23	11:20 Central		Water		X	X	X	X		2	
HEN_32 (500-238579-5)	8/22/23	11:15 Central		Water		X	X	X	X		2	
HEN_51 (500-238579-6)	8/22/23	15:56 Central		Water		X	X	X	X		2	
HEN_27 (500-238579-26)	8/24/23	09:00 Central		Water		X	X	X	X		2	
HEN_35 (500-238579-27)	8/24/23	10:10 Central		Water		X	X	X	X		2	
HEN_34 (500-238579-44)	8/25/23	11:25 Central		Water		X	X	X	X		2	
HEN_49 (500-238579-45)	8/25/23	10:05 Central		Water		X	X	X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Stephanie Hernandez* Date/Time: *8/29/23 1500* Company: *EELAP*
 Relinquished by: *FED EX* Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Method of Shipment: _____ Date/Time: _____
 Received by: *FED EX* Date/Time: _____ Company: _____
 Received by: *Shantay - Sharkey* Date/Time: *8/30/23 0100* Company: *EASTL*
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: McCutcheon, Carlene	Lab No: 500-178415.2							
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	Page: Page 2 of 2							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-238579-6							
Address: 13715 Rider Trail North, City: Earth City, State: MO, Zip: 63045		Analysis Requested								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes:								
Email:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)								
Project Name: HEN-23Q3		Special Instructions/Note:								
Site:		845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT, EAST ASH POND HEN-845-803								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other, 817=H2O, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep. 21 AF	904.0/PreSep. 0 AF	Ra226_228GFP_C_P1 AF	Total Number of Containers
HEN_49_MS (500-238579-45MS)	8/25/23	10:05 Central	MS	Water	X	X	X	X		3
HEN_49_MSD (500-238579-45MSD)	8/25/23	10:05 Central	MSD	Water	X	X	X	X		3
HEN_22 (500-238579-46)	8/25/23	08:50 Central		Water	X	X	X	X		2
HEN_50 (500-238579-47)	8/25/23	11:25 Central		Water	X	X	X	X		2
<p>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.</p>										
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>STEPHANIE HARRISON</i> Date/Time: 8/19/23 1500 Company: EEIA Company										
Relinquished by: <i>STEPHANIE HARRISON</i> Date/Time: 8/30/23 0900 Company: E-TAST Company										
Relinquished by: _____ Date/Time: _____ Company: _____										
Custody Seals Intact: _____ Custody Seal No.: _____										
Cooler Temperature(s) °C and Other Remarks: _____										

ATTACHMENT B



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: McCUTCHEON, Carlene	Camera Tracking No(s):	COC No: 500-178415.1								
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 2								
Company: TesAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois										
Address: 13715 Rider Trail North,		Due Date Requested: 9/14/2023										
City: Earth City		TAT Requested (days):										
State, Zip: MO, 63045		PO #:										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:										
Email:		Project #: 50021987										
Project Name: HEN-2303		SSOW#:										
Site:												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biomass, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AD	904.0/PreSep_0 AD	R226_228GFP_C_P AD	Total Number of Containers	Special Instructions/Note:
HEN_21R (500-238579-1)	8/22/23	13:45 Central	Water	Water		X	X	X	X		2	
HEN_22&D (500-238579-2)	8/22/23	09:10 Central	Water	Water		X	X	X	X		2	
HEN_23 (500-238579-3)	8/22/23	11:20 Central	Water	Water		X	X	X	X		2	
HEN_23_FD (500-238579-4)	8/22/23	11:20 Central	Water	Water		X	X	X	X		2	
HEN_32 (500-238579-5)	8/22/23	11:15 Central	Water	Water		X	X	X	X		2	
HEN_51 (500-238579-6)	8/22/23	15:56 Central	Water	Water		X	X	X	X		2	
HEN_27 (500-238579-26)	8/24/23	09:00 Central	Water	Water		X	X	X	X		2	
HEN_35 (500-238579-27)	8/24/23	10:10 Central	Water	Water		X	X	X	X		2	
HEN_34 (500-238579-44)	8/25/23	11:25 Central	Water	Water		X	X	X	X		2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>												
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (Specify)</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 8/21/23 15:00</p> <p>Relinquished by: <i>Carlene McCutcheon</i> Date/Time: 8/22/23 09:00</p> <p>Relinquished by: <i>Carlene McCutcheon</i> Date/Time: 8/22/23 09:00</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.:</p>												
<p>845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT, EAST TANK POND HEN-845-803</p>												



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: McCutcheon, Carlene	Carrier Tracking No(s):	IQC No: 500-178415.2								
Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	State of Origin: Illinois	Page: Page 2 of 2								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois										
Address: 13715 Rider Trail North,		Job #: 500-238579-4										
City: Earth City	Analysis Requested Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:											
State, Zip: MO, 63045												
Phone: 314-298-8566(Tel) 314-298-8757(Fax)												
Email:												
Project #: HEN-23Q3												
Site:	Due Date Requested: 9/14/2023 TAT Requested (days): PO #: WO #: Project #: SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, G=wateroil, B=biogas, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AD	904.0/PreSep_0 AD	R226_228GFPC_P/ AD	Total Number of Containers	Special Instructions/Note:
HEN_49 (500-238579-45)		8/25/23	10:05 Central	Water	Water		X	X	X		2	
HEN_49_MS (500-238579-45MS)		8/25/23	10:05 Central	MS	Water		X	X	X		3	
HEN_49_MSD (500-238579-45MSD)		8/25/23	10:05 Central	MSD	Water		X	X	X		3	
HEN_22 (500-238579-46)		8/25/23	08:50 Central	Water	Water		X	X	X		2	
HEN_50 (500-238579-47)		8/25/23	11:25 Central	Water	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 Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Primary Deliverable Rank: 2												
Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 8/29/23 10:00 Relinquished by: <i>FED EX</i> Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:												

ATTACHMENT B
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT - EAST ASH POND
HEN-845-803



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM: McCUTCHEON, Carlene	Sampler:	Lab No: 500-178415.1									
Shipping/Receiving		E-Mail: Carlene.McCUTCHEON@et.eurofins.com	Phone:	Page: Page 1 of 2									
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Job #: 500-238579-23									
Due Date Requested: 9/14/2023		TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:									
PO #:		Project #: 50021987		Analysis Requested									
WO #:		SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, B1=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AC	904.0/PreSep_0 AC	R226_228FPC_PI AC	903.0/PreSep_21 AC-23	Total Number of containers	Special Instructions/Note:
HEN_12 (500-238579-15)		8/23/23	10:10 Central	Water	Water	X	X	X	X	X	X	2	
HEN_13 (500-238579-16)		8/23/23	11:25 Central	Water	Water	X	X	X	X	X	X	2	
HEN_46 (500-238579-18)		8/23/23	08:55 Central	Water	Water	X	X	X	X	X	X	2	
HEN_47 (500-238579-19)		8/23/23	15:30 Central	Water	Water	X	X	X	X	X	X	2	
HEN_54 (500-238579-20)		8/23/23	13:50 Central	Water	Water	X	X	X	X	X	X	2	
HEN_52 (500-238579-25)		8/24/23	09:40 Central	Water	Water	X	X	X	X	X	X	2	
HEN_07 (500-238579-28)		8/24/23	14:00 Central	Water	Water	X	X	X	X	X	X	2	
HEN_08 (500-238579-30)		8/24/23	15:10 Central	Water	Water	X	X	X	X	X	X	2	
HEN_08&D (500-238579-32)		8/24/23	12:25 Central	Water	Water	X	X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Supromie Hemond Date/Time: 8/19/23 1500
 Relinquished by: FEDEX Date/Time: 8/30/29 900
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 A Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: FEDEX Date/Time: 8/30/29 900
 Received by: FEDEX Date/Time: 8/30/29 900
 Received by: _____ Date/Time: _____

Company: FEDEX
 Company: FEDEX
 Company: FEDEX

Method of Shipment: _____
 Date: _____
 Date/Time: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	McCutcheon, Carlene	State of Origin: Illinois	500-178415-1
Company: TestAmerica Laboratories, Inc.		E-Mail:	Carlene.McCutcheon@et.eurofins.com	Accreditations Required (See note): NELAP - Illinois	Page: Page 1 of 2
Address: 13715 Rider Trail North,		Due Date Requested: 9/14/2023	Job #: 500-238579-2		
City: Earth City	TAT Requested (days):	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify)			
State, Zip: MO, 63045	PO #:	Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:	Special Instructions/Note:			
Email:	Project #: HEN-23Q3	Total Number of Containers:			
Site: SSOW#:	Site:	Special Instructions/Note:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sewer, Onwastefoil, Biotissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AA	904.0/PreSep_0 AA	Ra226.228GFPC_P1 AA	Total Number of Containers	Special Instructions/Note:
HEN_21R (500-238579-1)	8/22/23	13:45 Central		Water		X	X	X	X		2	
HEN_22&D (500-238579-2)	8/22/23	09:10 Central		Water		X	X	X	X		2	
HEN_23 (500-238579-3)	8/22/23	11:20 Central		Water		X	X	X	X		2	
HEN_23_FD (500-238579-4)	8/22/23	11:20 Central		Water		X	X	X	X		2	
HEN_32 (500-238579-5)	8/22/23	11:15 Central		Water		X	X	X	X		2	
HEN_51 (500-238579-6)	8/22/23	15:56 Central		Water		X	X	X	X		2	
HEN_27 (500-238579-26)	8/24/23	09:00 Central		Water		X	X	X	X		2	
HEN_35 (500-238579-27)	8/24/23	10:10 Central		Water		X	X	X	X		2	
HEN_34 (500-238579-44)	8/25/23	11:25 Central		Water		X	X	X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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	Deliverable Requested: I, II, III, IV, Other (specify)	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Date/Time: 8/19/23 15:00		Method of Shipment:	
Relinquished by: <i>Sophomire Hamonday</i>		Received by: <i>FEDEX</i>	
Date/Time:		Received by: <i>Bhama Shankray - Hamonday</i>	
Relinquished by:		Date/Time: 8/30/23 09:00	
Date/Time:		Received by:	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
A Yes Δ No			



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Camera Tracking No(s):	COC No:																																																																														
Client Contact:		Phone:	McCulcheon, Carlene		500-178415.2																																																																														
Shipping/Receiving			E-Mail:	State of Origin:	Page: Page 2 of 2																																																																														
Company:			Carlene.McCulcheon@et.eurofins.com	Illinois	Job #: 500-238579-2																																																																														
Address:		Due Date Requested:	Accreditations Required (See note):																																																																																
13715 Rider Trail North,		9/14/2023	NELAP - Illinois																																																																																
City:		TAT Requested (days):	Analysis Requested																																																																																
Earth City			<table border="1"> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>MATRIX (Water, Solid, Oil, Tissue, A-As)</th> <th>Preservation Code:</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 AA</th> <th>904.0/PreSep_0 AA</th> <th>Raz26_228FPC_P/AA</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>HEN_49 (500-238579-45)</td> <td>8/25/23</td> <td>10:05 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>HEN_49_MS (500-238579-45MS)</td> <td>8/25/23</td> <td>10:05 Central</td> <td>MS</td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td></td> </tr> <tr> <td>HEN_49_MSD (500-238579-45MSD)</td> <td>8/25/23</td> <td>10:05 Central</td> <td>MSD</td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>3</td> <td></td> </tr> <tr> <td>HEN_22 (500-238579-46)</td> <td>8/25/23</td> <td>08:50 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>HEN_50 (500-238579-47)</td> <td>8/25/23</td> <td>11:25 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>2</td> <td></td> </tr> </table>			Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (Water, Solid, Oil, Tissue, A-As)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AA	904.0/PreSep_0 AA	Raz26_228FPC_P/AA	Total Number of Containers	Special Instructions/Note:	HEN_49 (500-238579-45)	8/25/23	10:05 Central		Water		X	X	X	X		2		HEN_49_MS (500-238579-45MS)	8/25/23	10:05 Central	MS	Water		X	X	X	X		3		HEN_49_MSD (500-238579-45MSD)	8/25/23	10:05 Central	MSD	Water		X	X	X	X		3		HEN_22 (500-238579-46)	8/25/23	08:50 Central		Water		X	X	X	X		2		HEN_50 (500-238579-47)	8/25/23	11:25 Central		Water		X	X	X	X		2	
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (Water, Solid, Oil, Tissue, A-As)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AA	904.0/PreSep_0 AA	Raz26_228FPC_P/AA	Total Number of Containers	Special Instructions/Note:																																																																							
HEN_49 (500-238579-45)	8/25/23	10:05 Central		Water		X	X	X	X		2																																																																								
HEN_49_MS (500-238579-45MS)	8/25/23	10:05 Central	MS	Water		X	X	X	X		3																																																																								
HEN_49_MSD (500-238579-45MSD)	8/25/23	10:05 Central	MSD	Water		X	X	X	X		3																																																																								
HEN_22 (500-238579-46)	8/25/23	08:50 Central		Water		X	X	X	X		2																																																																								
HEN_50 (500-238579-47)	8/25/23	11:25 Central		Water		X	X	X	X		2																																																																								
State, Zip:		PO #:	Preservation Codes:																																																																																
MO, 63045			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Y - Trizma Z - other (Specify)																																																																																
Project Name:		WO #:	Other:																																																																																
HEN-23Q3																																																																																			
Site:		Project #:																																																																																	
		50021987																																																																																	
		SSOW#:																																																																																	

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)

Empty Kit Relinquished by:

Relinquished by: *Stephanie Hernandez*

Relinquished by: **FED EX**

Relinquished by:

Custody Seals Intact: Yes No

Custody Seal No.:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Method of Shipment:

Received by: **FED EX**

Company: **EEIAP**

Date/Time: **8/19/23 1500**

Received by: *Brianne Sharkey - Hana*

Company: **EEIAP**

Date/Time: **8/30/23 0900**

Received by:

Company:

Date/Time:

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: McCutcheon, Carlene	Lab Tracking No(s): 500-178415.1
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	Page: Page 1 of 1
Company: TesAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-238579-18
Address: 13715 Rider Trail North,		Preservation Codes:	
City: Earth City	State: MO, 63045	A - HCL	M - Hexane
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	B - NaOH	N - None
Email:	WO #:	C - Zn Acetate	O - AsNaO2
Project Name: HEN-2303	Project #: 50021987	D - Nitric Acid	P - Na2O4S
Site:	SSOW#:	E - NaHSO4	Q - Na2SO3
		F - MeOH	R - Na2S2O3
		G - Amchlor	S - H2SO4
		H - Ascorbic Acid	T - TSP Dodecahydrate
		I - Ice	U - Acetone
		J - DI Water	V - MCAA
		K - EDTA	W - pH 4-5
		L - EDA	Y - Trizma
		Other:	Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewer, Oil, Soil, Sludge, Bifluoride, A=Air)	Preservation Code:	Analysis Requested			Total Number of Containers	Special Instructions/Note:
						Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	903.0/PreSep_21 AE		
HEN_18&D (500-238579-13)	8/23/23	14:05 Central	Water	Water		X	X	X	2	
HEN_07 (500-238579-28)	8/24/23	14:00 Central	Water	Water		X	X	X	2	
HEN_08 (500-238579-30)	8/24/23	15:10 Central	Water	Water		X	X	X	2	
HEN_08&D (500-238579-32)	8/24/23	12:25 Central	Water	Water		X	X	X	2	
HEN_08_FD (500-238579-34)	8/24/23	15:10 Central	Water	Water		X	X	X	2	
HEN_18#S (500-238579-51)	8/28/23	08:35 Central	Water	Water		X	X	X	2	
HEN_03R (500-238579-53)	8/28/23	09:45 Central	Water	Water		X	X	X	2	
HEN_03R (500-238579-53MS)	8/28/23	09:45 Central	MS	Water		X	X	X	3	
HEN_03R (500-238579-53MSD)	8/28/23	09:45 Central	MSD	Water		X	X	X	3	

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	Deliverable Requested: I, II, III, IV, Other (specify)	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Date/Time: 8/29/23 1500		Method of Shipment:	
Relinquished by: Stephanie Hemondy		Received by: FEDEX	
Date/Time: 8/30/23 0900		Received by: Barbara Sharkey - Dayaker	
Relinquished by: FEDEX		Received by:	
Date/Time:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Camera Tracking No(s):	COC No:									
Client Contact:		Phone:	McCUTCHEON, Carlene		500-178415.1									
Shipping/Receiving			E-Mail:	State of Origin:	Page: Page 1 of 1									
Company:			Carlene.McCutcheon@et.eurofins.com	Illinois	Job #: 500-238579-16									
Address:		Due Date Requested:	Accreditations Required (See note):											
13715 Rider Trail North,		9/14/2023	NELAP - Illinois											
City:	Earth City	TAT Requested (days):	Analysis Requested											
State, Zip:	MO, 63045		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)											
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Preservation Codes:											
Email:		WO #:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:											
Project Name:	HEN-2303	Project #:	Perform MS/MSD (Yes or No)											
Site:		SSOW#:	Field Filtered Sample (Yes or No)											
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)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AB	904.0/PreSep_0 AB	Ra226_228GFP_C_P/AB	903.0/PreSep_21 AB-16	Total Number of Containers	Special Instructions/Note:
HEN_18&D (500-238579-13)		8/23/23	14:05 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_07 (500-238579-28)		8/24/23	14:00 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_08 (500-238579-30)		8/24/23	15:10 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_08&D (500-238579-32)		8/24/23	12:25 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_08_FD (500-238579-34)		8/24/23	15:10 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_18&S (500-238579-51)		8/28/23	08:35 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_03R (500-238579-53)		8/28/23	09:45 Central	Water	Water	X	X	X	X	X	X	X	2	
HEN_03R (500-238579-53MS)		8/28/23	09:45 Central	MS	Water	X	X	X	X	X	X	X	2	
HEN_03R (500-238579-53MSD)		8/28/23	09:45 Central	MSD	Water	X	X	X	X	X	X	X	3	
<p>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.</p>														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Empty Kit Relinquished by:														
Date: 8/10/23 1500														
Relinquished by: <i>Stephanie Hemond</i>														
Relinquished by: <i>FEDEX</i>														
Relinquished by:														
Custody Seal No.:														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No														
Cooler Temperature(s) °C and Other Remarks:														

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
HEN-845-803

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *FEDEX*
 Received by: *Burana Sharabay - Sharabay*
 Received by: _____
 Date/Time: 8/30/23 09:00
 Date/Time: _____
 Date/Time: _____
 Company: _____
 Company: _____
 Company: _____



Client Information (Sub Contract Lab)		Lab PM: McCUTCHEON, Carlene	Camera Tracking No(s):	COC No: 500-178415.2																										
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCUTCHEON@et.eurofins.com	State of Origin: Illinois	Page: Page 2 of 2																										
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois																												
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Due Date Requested: 9/14/2023																												
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):																												
Email:		FO #:																												
Project Name: HEN-2303		WO #:																												
Site:		Project #: 50021987																												
		SSOW#:																												
Sample Identification - Client ID (Lab ID)		Analysis Requested																												
HEN_03R (500-238579-53MSD)		<table border="1"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=soil, B=biological, A=air)</th> <th>Preservation Code:</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0/PreSep_21 Y</th> <th>904.0/PreSep_0 Y</th> <th>Ra226_228GFP_C/P Y</th> <th>903.0/PreSep_21 Y-14</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>8/29/23</td> <td>09:45 Central</td> <td>MSD</td> <td>Water</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>3</td> <td></td> </tr> </table>			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biological, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Y	904.0/PreSep_0 Y	Ra226_228GFP_C/P Y	903.0/PreSep_21 Y-14	Total Number of Containers	Special Instructions/Note:	8/29/23	09:45 Central	MSD	Water		X	X	X	X	X	X	3	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biological, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Y	904.0/PreSep_0 Y	Ra226_228GFP_C/P Y	903.0/PreSep_21 Y-14	Total Number of Containers	Special Instructions/Note:																		
8/29/23	09:45 Central	MSD	Water		X	X	X	X	X	X	3																			
845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT, EAST ASH POND HEN-345-803		<p>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.</p>																												
Possible Hazard Identification		<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																												
Unconfirmed		Special Instructions/OC Requirements:																												
Deliverable Requested: I, II, III, IV, Other (Specify)		Primary Deliverable Rank: 2																												
Empty Kit Relinquished by:		Date: _____ Time: _____																												
Relinquished by: <i>Stephanie Hernandez</i>		Received by: <i>Barbara Shankley - Shankley</i>																												
Relinquished by: <i>FED EX</i>		Received by: <i>Barbara Shankley - Shankley</i>																												
Relinquished by:		Received by:																												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																												



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:							
Client Contact: Shipping/Receiving		Phone:	McCUTCHEON, Carlene	State of Origin: Illinois	500-178415.1							
Company: TestAmerica Laboratories, Inc.		E-Mail: Carlene.McCutcheon@eurofins.com		Accreditations Required (See note): NELAP - Illinois	Page: Page 1 of 2							
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 9/14/2023			Job #: 500-238579-10							
Project Name: HEN-2303 Site:		TAT Requested (days):										
PO #:												
WO #:												
Project #: 50021987 SSOW#:												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 AG	904.0/PreSep_0 AG	Ra226_228GFPC_P1 AG	Total Number of Containers	Special Instructions/Note:
HEN_25 (500-238579-7)	8/22/23	14:30 Central		Water		X	X	X	X		2	
HEN_26 (500-238579-8)	8/22/23	15:35 Central		Water		X	X	X	X		2	
HEN_26_MS (500-238579-8MS)	8/22/23	15:35 Central	MS	Water		X	X	X	X		2	
HEN_26_MSD (500-238579-8MSD)	8/22/23	15:35 Central	MSD	Water		X	X	X	X		2	
HEN_XPW01_pore (500-238579-36)	8/24/23	12:15 Central		Water		X	X	X	X		2	
HEN_XPW01_pore_EB (500-238579-37)	8/24/23	12:15 Central		Water		X	X	X	X		2	
HEN_XPW02_pore (500-238579-38)	8/24/23	13:45 Central		Water		X	X	X	X		2	
HEN_XPW02_pore_EB (500-238579-39)	8/24/23	13:45 Central		Water		X	X	X	X		4	
HEN_XPW03_pore (500-238579-40)	8/24/23	15:30 Central		Water		X	X	X	X		2	

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 HEN-845-803

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
 Date: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____

Received by: *Stephanie Hernandez*
 Received by: *Stephanie Hernandez*
 Received by: _____

Company: *EEEA*
 Company: *EEEA*
 Company: _____

Method of Shipment: _____
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, EAST ASH POND
HEN-845-003

Client Information (Sub Contract Lab)		Lab PM: McCUTCHEON, Carlene	Carrier Tracking No(s):	COC No: 500-178415.2
Client Contact: McCUTCHEON, Carlene		E-Mail: Carlene.McCUTCHEON@eurofins.com	State of Origin: Illinois	Page: Page 2 of 2
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 500-238579-10		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Project Name: HEN-2303		Analysis Requested		
Site: SSOW#:		Total Number of Containers: 2		
Due Date Requested: 9/14/2023		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
TAT Requested (days):		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
PO #:	Sample Date: 8/24/23	Sample Time: 15:30 Central	Sample Type (C=Comp, G=grab)	Preservation Code: Water
WO #:	Sample Date:	Sample Time:	Sample Type:	Preservation Code:
Project #:	Sample Date:	Sample Time:	Sample Type:	Preservation Code:
SSOW#:	Sample Date:	Sample Time:	Sample Type:	Preservation Code:
Matrix (W=water, S=solid, O=wastewater, B=biological, A=AA)		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID): HEN_XPW03_pore_EB (500-238579-41)		Special Instructions/Note: EB		

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **Stephanie Hemandy** Date/Time: **8/19/23 1500** Company: **EEIA**
 Relinquished by: **FED EX** Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Received by: **FED EX** Date/Time: _____ Company: _____
 Received by: **Wanna Sharkey - Slag** Date/Time: **8/30/23 0500** Company: **EEA**
 Received by: _____ Date/Time: _____ Company: _____
 Method of Shipment: _____
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:																		
Client Contact:		Phone:	McCutcheon, Carlene	State of Origin:	500-178415-1																		
Shipping/Receiving			E-Mail:	Illinois	Page: 1 of 2																		
Company:			Carlene.McCutcheon@et.eurofins.com	Job #:	500-238579-1																		
Address:		Due Date Requested:	Accreditations Required (See note):																				
13715 Rider Trail North,		9/25/2023	NELAP - Illinois																				
City:	Earth City	TAT Requested (days):	Analysis Requested																				
State:	MO.	PO #:	903.0/PreSep_21 Y-14	904.0/PreSep_0 Y	903.0/PreSep_21 AB-16																		
Zip:	63045	WO #:	903.0/PreSep_21 AE-18	904.0/PreSep_0 AE	903.0/PreSep_21 Z-21																		
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	Project #:	R226_228GFC_P/AB	R226_228GFC_P/AE	R226_228GFC_P/Z																		
Email:		SSOW#:	904.0/PreSep_0 AB	903.0/PreSep_21 AC-23	904.0/PreSep_0 Z																		
Project Name:	HEN-2303		903.0/PreSep_21 Y-14	903.0/PreSep_21 AC-23	904.0/PreSep_0 Z																		
Site:																							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, On-wast, Oil, Bifluo, A=AF)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Y-14	904.0/PreSep_0 Y	R226_228GFC_P/Y	903.0/PreSep_21 AB-16	904.0/PreSep_0 AB	R226_228GFC_P/AB	903.0/PreSep_21 AE-18	904.0/PreSep_0 AE	R226_228GFC_P/AE	903.0/PreSep_21 Z-21	904.0/PreSep_0 Z	R226_228GFC_P/Z	903.0/PreSep_21 AC-23	Total Number of Containers	Special Instructions/Note:
HEN_45#S (500-238579-56)	8/28/23	11-15 Central	Water	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2		
HEN_16 (500-238579-58)	8/28/23	08:35 Central	Water	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2		
HEN_17 (500-238579-59)	8/28/23	09:40 Central	Water	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2		
HEN_17-FD (500-238579-60)	8/28/23	09:40 Central	Water	Water		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2		

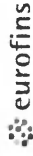
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/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: _____
Relinquished by: *Stephanie Hammond* Date/Time: 8/29/23 1500 Company: *EETA*
Relinquished by: *Briana Sharkey - Hazardous Waste* Date/Time: 8/23/23 0900 Company: *ETC*
Relinquished by: Date/Time: _____ Company: _____
Custody Seals Intact: Yes No Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements: _____
Method of Shipment: _____
Received by: _____ Date/Time: _____ Company: _____
Received by: _____ Date/Time: _____ Company: _____
Received by: _____ Date/Time: _____ Company: _____



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: McCUTCHEON, Carlene	Carrier Tracking No(s): 500-178415.2
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-238579-1
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____	
City: Earth City		Analysis Requested	
State, Zip: MO, 63045		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Perform MS/MSD (Yes or No)	
Email: _____		Field Filtered Sample (Yes or No)	
Project #: 50021987		Special Instructions/Note:	
Site: _____		904.0/PreSep_0 AC	
Sample Identification - Client ID (Lab ID)		R226_228FPC_PI AC	
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code
8/28/23	11:15 Central	Water	Water
8/28/23	08:35 Central	Water	Water
8/28/23	09:40 Central	Water	Water
8/28/23	09:40 Central	Water	Water
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: Stephanie Hemondy Date/Time: 8/29/23 1500 Company: EEIA</p> <p>Relinquished by: FED EX Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Δ Yes Δ No</p>			

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT EAST ASH POND
 HEN-845-803

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:
 Received by: **FED EX** Date/Time: _____ Company: _____
 Received by: **Briana Sharkey - Sharkey** Date/Time: **8/30/23 0900** Company: **EEIA**
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
 SDG Number: HEN_SUP_000_0 RAD

Login Number: 238579

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2,2.0,2.9,0.1,1.63,0,1.3,0.5,2
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.	False	
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 <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
 SDG Number: HEN_SUP_000_0 RAD

Login Number: 238579

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 08/30/23 01:27 PM

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

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)		
		Ba (30-110)	Ba (30-110)	Ba (30-110)
500-238579-1	HEN_21R	90.1	90.1	90.1
500-238579-3	HEN_23	96.5	96.5	96.5
500-238579-4	HEN_23_FD	94.0	94.0	94.0
500-238579-5	HEN_32	92.8	92.8	92.8
500-238579-6	HEN_51	91.3	91.3	91.3
500-238579-7	HEN_25	94.5	94.5	94.5
500-238579-8	HEN_26	89.6	89.6	89.6
500-238579-8 MS	HEN_26_MS	84.4	84.4	84.4
500-238579-8 MSD	HEN_26_MSD	88.3	88.3	88.3
500-238579-13	HEN_18&D	93.1	93.1	93.1
500-238579-26	HEN_27	95.3	95.3	95.3
500-238579-27	HEN_35	93.5	93.5	93.5
500-238579-36	HEN_XPW01_pore	30.3	30.3	30.3
500-238579-37	HEN_XPW01_pore_EB	96.3	96.3	96.3
500-238579-38	HEN_XPW02_pore	99.3	99.3	99.3
500-238579-39	HEN_XPW02_pore_EB	93.1	93.1	93.1
500-238579-40	HEN_XPW03_pore	94.5	94.5	94.5
500-238579-41	HEN_XPW03_pore_EB	99.5	99.5	99.5
500-238579-42	HEN_257_FB	99.0	99.0	99.0
500-238579-44	HEN_34	99.0	99.0	99.0
500-238579-45	HEN_49	91.3	91.3	91.3
500-238579-45 MS	HEN_49_MS	90.6	90.6	90.6
500-238579-45 MSD	HEN_49_MSD	87.1	87.1	87.1
500-238579-46	HEN_22	96.0	96.0	96.0
500-238579-47	HEN_50	95.0	95.0	95.0
500-238579-50	845_803_FB	97.3	97.3	97.3
500-238579-51	HEN_18#S	93.3	93.3	93.3
500-238579-53	HEN_03R	89.3	89.3	89.3
500-238579-53 MS	HEN_03R_MS	90.3	90.3	90.3
500-238579-53 MSD	HEN_03R_MSD	94.8	94.8	94.8
500-238579-56	HEN_45#S	93.5	93.5	93.5
LCS 160-626172/2-A	Lab Control Sample	93.1	93.1	93.1
LCS 160-626178/2-A	Lab Control Sample	100	100	100
LCS 160-626180/2-A	Lab Control Sample	94.0	94.0	94.0
MB 160-626172/1-A	Method Blank	89.8	89.8	89.8
MB 160-626178/1-A	Method Blank	99.3	99.3	99.3
MB 160-626180/1-A	Method Blank	94.8	94.8	94.8

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)				
		Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)
500-238579-28	HEN_07	88.8	88.8	88.8	88.8	88.8
500-238579-30	HEN_08	91.6	91.6	91.6	91.6	91.6
500-238579-32	HEN_08&D	93.1	93.1	93.1	93.1	93.1

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN_23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)				
		Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)
500-238579-34	HEN_08_FD	91.6	91.6	91.6	91.6	91.6

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Ba (30-110)
500-238579-2	HEN_22&D	91.3	91.3
500-238579-15	HEN_12	95.8	95.8
500-238579-16	HEN_13	85.4	85.4
500-238579-18	HEN_46	90.1	90.1
500-238579-19	HEN_47	93.1	93.1
500-238579-20	HEN_54	91.8	91.8
500-238579-25	HEN_52	89.6	89.6
500-238579-58	HEN_16	99.3	99.3
500-238579-59	HEN_17	93.5	93.5
500-238579-60	HEN_17-FD	91.1	91.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)					
		Ba (30-110)	Y (30-110)	Ba (30-110)	Y (30-110)	Y (30-110)	Y (30-110)
500-238579-1	HEN_21R	90.1	82.6	90.1	82.6	82.6	82.6
500-238579-3	HEN_23	96.5	78.9	96.5	78.9	78.9	78.9
500-238579-4	HEN_23_FD	94.0	80.0	94.0	80.0	80.0	80.0
500-238579-5	HEN_32	92.8	78.1	92.8	78.1	78.1	78.1
500-238579-6	HEN_51	91.3	82.2	91.3	82.2	82.2	82.2
500-238579-7	HEN_25	94.5	79.6	94.5	79.6	79.6	79.6
500-238579-8	HEN_26	89.6	82.6	89.6	82.6	82.6	82.6
500-238579-8 MS	HEN_26_MS	84.4	77.0	84.4	77.0	77.0	77.0
500-238579-8 MSD	HEN_26_MSD	88.3	81.9	88.3	81.9	81.9	81.9
500-238579-13	HEN_18&D	93.1	80.4	93.1	80.4	80.4	80.4
500-238579-26	HEN_27	95.3	79.3	95.3	79.3	79.3	79.3
500-238579-27	HEN_35	93.5	82.2	93.5	82.2	82.2	82.2
500-238579-36	HEN_XPW01_pore	30.3	85.6	30.3	85.6	85.6	85.6
500-238579-37	HEN_XPW01_pore_EB	96.3	87.5	96.3	87.5	87.5	87.5
500-238579-38	HEN_XPW02_pore	99.3	83.7	99.3	83.7	83.7	83.7
500-238579-39	HEN_XPW02_pore_EB	93.1	83.4	93.1	83.4	83.4	83.4
500-238579-40	HEN_XPW03_pore	94.5	81.5	94.5	81.5	81.5	81.5
500-238579-41	HEN_XPW03_pore_EB	99.5	81.5	99.5	81.5	81.5	81.5
500-238579-42	HEN_257_FB	99.0	83.4	99.0	83.4	83.4	83.4
500-238579-44	HEN_34	99.0	82.6	99.0	82.6	82.6	82.6
500-238579-45	HEN_49	91.3	84.9	91.3	84.9	84.9	84.9

Eurofins Chicago

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 HEN_845_002
 SDG: HEN_SUP_000_0 RAD

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)					
		Ba (30-110)	Y (30-110)	Ba (30-110)	Y (30-110)	Y (30-110)	Y (30-110)
500-238579-45 MS	HEN_49_MS	90.6	79.6	90.6	79.6	79.6	79.6
500-238579-45 MSD	HEN_49_MSD	87.1	84.1	87.1	84.1	84.1	84.1
500-238579-46	HEN_22	96.0	86.7	96.0	86.7	86.7	86.7
500-238579-47	HEN_50	95.0	84.1	95.0	84.1	84.1	84.1
500-238579-50	845_803_FB	97.3	83.7	97.3	83.7	83.7	83.7
500-238579-51	HEN_18#S	93.3	81.9	93.3	81.9	81.9	81.9
500-238579-53	HEN_03R	89.3	84.5	89.3	84.5	84.5	84.5
500-238579-53 MS	HEN_03R_MS	90.3	80.0	90.3	80.0	80.0	80.0
500-238579-53 MSD	HEN_03R_MSD	94.8	89.3	94.8	89.3	89.3	89.3
500-238579-56	HEN_45#S	93.5	81.9	93.5	81.9	81.9	81.9
LCS 160-626177/2-A	Lab Control Sample	93.1	84.1	93.1	84.1	84.1	84.1
LCS 160-626179/2-A	Lab Control Sample	100	87.5	100	87.5	87.5	87.5
LCS 160-626182/2-A	Lab Control Sample	94.0	81.5	94.0	81.5	81.5	81.5
MB 160-626177/1-A	Method Blank	89.8	85.2	89.8	85.2	85.2	85.2
MB 160-626179/1-A	Method Blank	99.3	82.2	99.3	82.2	82.2	82.2
MB 160-626182/1-A	Method Blank	94.8	90.8	94.8	90.8	90.8	90.8

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)							
		Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)	Ba (30-110)	Y (30-110)	Y (30-110)	Y (30-110)
500-238579-28	HEN_07	88.8	88.8	88.8	88.8	88.8	77.4	77.4	77.4
500-238579-30	HEN_08	91.6	91.6	91.6	91.6	91.6	81.9	81.9	81.9
500-238579-32	HEN_08&D	93.1	93.1	93.1	93.1	93.1	82.6	82.6	82.6
500-238579-34	HEN_08_FD	91.6	91.6	91.6	91.6	91.6	85.6	85.6	85.6

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Y (30-110)	Y (30-110)
		500-238579-28	HEN_07
500-238579-30	HEN_08	81.9	81.9
500-238579-32	HEN_08&D	82.6	82.6
500-238579-34	HEN_08_FD	85.6	85.6

Tracer/Carrier Legend

Ba = Ba Carrier
 Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)			
		Ba (30-110)	Ba (30-110)	Y (30-110)	Y (30-110)
500-238579-2	HEN_22&D	91.3	91.3	81.9	81.9
500-238579-15	HEN_12	95.8	95.8	80.0	80.0
500-238579-16	HEN_13	85.4	85.4	77.4	77.4

Eurofins Chicago

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, EAST ASH POND
 Job ID: 500-238579-10
 Job ID: 845-002
 SDG: HEN_SUP_000_0 RAD

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)			
		Ba (30-110)	Ba (30-110)	Y (30-110)	Y (30-110)
500-238579-18	HEN_46	90.1	90.1	80.4	80.4
500-238579-19	HEN_47	93.1	93.1	79.3	79.3
500-238579-20	HEN_54	91.8	91.8	79.3	79.3
500-238579-25	HEN_52	89.6	89.6	74.8	74.8
500-238579-58	HEN_16	99.3	99.3	83.4	83.4
500-238579-59	HEN_17	93.5	93.5	83.4	83.4
500-238579-60	HEN_17-FD	91.1	91.1	77.8	77.8

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



SAR-3: Episodic Depth to Groundwater Measurements

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

Plant: HEN
 Event: HEN-23Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	8/21/23	1200	41.84		CF
04R	HEN_04R	8/21/23	1035	37.08		CF
05R	HEN_05!R	8/21/23	1105	38.69		CF
05DR	HEN_05&DR	8/21/23	1115	38.73		CF
06	HEN_06	8/21/23	1140	20.8		CF
10	HEN_10	8/21/23	0955	48.28		CF
11	HEN_11	8/21/23	0950	48.33		CF
15	HEN_15	8/21/23	1030	47.19		CF
19S	HEN_19#S	8/21/23	1045	37.2		CF
19D	HEN_19&D	8/21/23	1040	37.34		CF
25	HEN_25	8/22/23	0945	14.02 13.5	* could not	CF
26	HEN_26	8/22/23	0940	13.26		CF
30	HEN_30	8/22/23	1000	4.85		CF
31	HEN_31	8/22/23	0955	4.85		CF
33	HEN_33	8/22/23	1018	2.8'		CF
36	HEN_36	8/22/23	0930	13.58		CF
40S	HEN_40#S	8/21/23	1050	37.92		CF
45S	HEN_45#S	8/21/23	1125	18.98		CF
48	HEN_48	8/21/23	1055	N/A	* could not measure due to block	CF
XPW01	HEN_XPW01_pore	8/21/23	1005	9.45		CF
XPW02	HEN_XPW02_pore	8/21/23	1010	14.19		CF
XPW03	HEN_XPW03_pore	8/21/23	1020	4.86		CF
XSG01	HEN_XSG01					
SG02	HEN_YSG_ILRIVER					

Monitoring Well Evaluation Checklist

Site Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/21/23 @ 1140			X	
Well Number HEN-00				
Stick-up Monitoring Wells		Comments		
1. Outer protective Casing		Yes	No	NA
Not corroded			X	
Not dented			↓	
Not cracked			↓	
Not loose			↓	
2. Inner casing		Yes	No	NA
Not corroded			X	
Not dented			↓	
Not cracked			↓	
Not loose			↓	
3. Are there weep holes in outer casing?		Yes	No	NA
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?				X
6. Is there a lock present?		X		
7. Bumper posts in good condition?		↓		
Flushmount Monitoring Wells		Yes	No	NA
8. Can the lid be secured tightly?				X
9. Does the lid have a gasket that seals?				↓
10. No water in the flushmount?				↓
11. Is the well cap lockable?				↓
12. Is there a lock present?				↓
All Monitoring Wells		Yes	No	NA
Downhole Condition		_____		
12. Water level measuring point clearly marked?			X	X
13. No obstructions in well?			X	
14. No plant roots or vegetation in well?			↓	
15. No sediment in bottom of well?			↓	
If present, how much sediment?		ft		
16. Installed as total depth.		ft		
17. Measured total depth of well.		31.09ft		
General Condition		Yes	No	NA
18. Concrete pad installed?			X	
19. Concrete pad		_____		
Slope away from casing?				X
Not deteriorated?				↓
Not heaved or below surrounding grade?				↓
20. No surface seal settling?				↓
21. Well clearly visible and labeled?		X		
Comments:				
DTW: 20.80 ft pump installed				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23 @ 1040</u>			X	
Well Number <u>HEN-19D</u>				

					<u>Comments</u>
<u>Stick-up Monitoring Wells</u>					
1. Outer protective Casing	Yes	No	NA		
Not corroded		X			
Not dented		↓			
Not cracked					
Not loose		↓			
2. Inner casing	Yes	No	NA		
Not corroded		X			
Not dented		↓			
Not cracked					
Not loose		↓			
3. Are there weep holes in outer casing?	Yes	No	NA		
4. Weep holes able to drain?		X			
5. Is there a lockable cap present?	X				
6. Is there a lock present?	↓				
7. Bumper posts in good condition?	↓				
<u>Flushmount Monitoring Wells</u>					
8. Can the lid be secured tightly?	Yes	No	NA		
9. Does the lid have a gasket that seals?			X		
10. No water in the flushmount?			↓		
11. Is the well cap lockable?			↓		
12. Is there a lock present?			↓		
<u>All Monitoring Wells</u>					
Downhole Condition					
12. Water level measuring point clearly marked?			X		
13. No obstructions in well?		X			
14. No plant roots or vegetation in well?		↓			
15. No sediment in bottom of well?					
If present, how much sediment?	—	ft			
16. Installed as total depth?		ft			
17. Measured total depth of well.		<u>62.55</u>	ft		
General Condition					
18. Concrete pad installed?	X				
19. Concrete pad					
Slope away from casing?		X			
Not deteriorated?		↓			
Not heaved or below surrounding grade?		↓			
20. No surface seal settling?		↓			
21. Well clearly visible and labeled?	X				
Comments:					
<u>DTW: 37.34 p/m/p in well</u>					

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site Hennipen, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/21/23 @ 1035			<input checked="" type="checkbox"/>	
Well Number HEN-04R				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing		<input checked="" type="checkbox"/>		
Not corroded		↓		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing		<input checked="" type="checkbox"/>		
Not corroded		↓		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?	<input checked="" type="checkbox"/>			
4. Weep holes able to drain?		↓		
5. Is there a lockable cap present?		↓		
6. Is there a lock present?		↓		
7. Bumper posts in good condition?		↓		

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?			<input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	

All Monitoring Wells

	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				42.78ft

General Condition

	Yes	No	NA	
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?	<input checked="" type="checkbox"/>			
Not deteriorated?	<input checked="" type="checkbox"/>			
Not heaved or below surrounding grade?	<input checked="" type="checkbox"/>			
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments: PAD IS CRACKED + MAY NEED REPAIRS 37.08 DTW

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23</u>			<input checked="" type="checkbox"/>	
Well Number <u>HEN-15</u>				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing				
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?	X		X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	

All Monitoring Wells

	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				50.3 ft

General Condition

	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		↓		
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	X			

Comments:

*contains pump! DTW: 47.19ft
 top of pump: 50.3ft*

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23 @ 0950</u>			<input checked="" type="checkbox"/>	
Well Number <u>11</u>				

<u>Stick-up Monitoring Wells</u>				<u>Comments</u>
1. Outer protective Casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		
2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		<input checked="" type="checkbox"/>		
Not cracked		<input checked="" type="checkbox"/>		
Not loose		<input checked="" type="checkbox"/>		
3. Are there weep holes in outer casing?	Yes	No	NA	
		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?			<input checked="" type="checkbox"/>	
5. Is there a lockable cap present?	<input checked="" type="checkbox"/>			
6. Is there a lock present?	<input checked="" type="checkbox"/>			
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>			
<u>Flushmount Monitoring Wells</u>	Yes	No	NA	
8. Can the lid be secured tightly?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
10. No water in the flushmount?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is the well cap lockable?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
12. Is there a lock present?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<u>All Monitoring Wells</u>	Yes	No	NA	
<u>Downhole Condition</u>	<input checked="" type="checkbox"/>			
12. Water level measuring point clearly marked?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>		
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>		
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				<u>106.3ft</u>
<u>General Condition</u>	Yes	No	NA	
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>		
Not deteriorated?		<input checked="" type="checkbox"/>		
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>		
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			
Comments:				
	<u>DTN: 48.83ft</u>			

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site <u>Hennerin JL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/22/23 @ 0830</u>			X	
Well Number <u>HEN-22 & D</u>				

Stick-up Monitoring Wells

	Yes	No	NA	
1. Outer protective Casing		X		
Not corroded		↓		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing		X		
Not corroded		↓		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			

Comments

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	

All Monitoring Wells

	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				
				app ft

	Yes	No	NA	
General Condition				
18. Concrete pad installed?		X		
19. Concrete pad				
Slope away from casing?			X	
Not deteriorated?			↓	
Not heaved or below surrounding grade?			↓	
20. No surface seal settling?			↓	
21. Well clearly visible and labeled?	X			

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 0800
 Field Personnel: Allison Beckwith Finish Date: _____ Time: 1015

WELL INFORMATION

Well ID: HEN-220
 Casing ID: 2 inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	±10% Temp. (°C)	±0.1 pH (SU)	SEC or ±0.01 Cond. (µs/cm)	Dissolved ±0.5 Oxygen (mg/L)	±5% or ±1 Turbidity (NTU)	±1.0 ORP (mV)	Visual Clarity
	0819				19.1	7.56	0.712	3.04	3.87	-12.6	clear
	0824				17.9	7.35	0.722	1.06	6.12	-68.0	
	0829				17.8	7.29	0.728	1.07	10.02	-66.0	
	0834				17.7	7.29	0.729	0.85	11.3	-72.0	
	0839	2.0			18.2	7.29	0.730	0.84	42.11	-75.7	
	0844				18.6	7.30	0.730	0.87	12.9	-79.6	
30	0849				19.0	7.30	0.731	0.85	21.43	-81.7	
40	0854				18.0	7.30	0.729	0.05	27.0	-84.1	
45	0859				17.7	7.30	0.731	0.83	26.2	-83.0	
	0904	3.5			18.0	7.30	0.731	0.91	24.8	-82.1	

NOTES (continued)

Samples taken @ 0910
 Ferrrous iron: Under range @ 0920

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

P 1 of 1

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u> Inspection Date <u>8/22/23 @ 1200</u> Well Number <u>HEN-23</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA																					
			X																						
Stick-up Monitoring Wells		Comments																							
1. Outer protective Casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table>	Yes	No	NA		X			↓																
Yes	No	NA																							
	X																								
	↓																								
2. Inner casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table>	Yes	No	NA		X			↓																
Yes	No	NA																							
	X																								
	↓																								
3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> </table>	Yes	No	NA		X				X	X			↓											
Yes	No	NA																							
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		X																							
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Flushmount Monitoring Wells																									
8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> </table>	Yes	No	NA			X			↓															
Yes	No	NA																							
		X																							
		↓																							
All Monitoring Wells																									
Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> </table>	Yes	No	NA			X		X			↓		—	ft		—	ft		—	ft				
Yes	No	NA																							
		X																							
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General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> </table>	Yes	No	NA		X				X			↓	X											
Yes	No	NA																							
	X																								
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X																									
Comments:																									
<u>DTW: in app</u>																									
* Major well repair are those that require a subcontractor or separate mobilization to complete																									

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____			Task #: _____			Start Date: <u>8/22/23</u>			Time: <u>1040</u>						
Field Personnel: <u>Allison Beckwith</u>				Finish Date: _____				Time: <u>1210</u>							
WELL INFORMATION					EVENT TYPE										
Well ID: <u>HEC-23</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: <u>2</u> inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>1041</u>				<u>15.8</u>	<u>7.39</u>	<u>0.836</u>	<u>2.91</u>	<u>3.61</u>	<u>-94.6</u>	<u>clear</u>				
	<u>1040</u>				<u>15.7</u>	<u>7.40</u>	<u>0.836</u>	<u>1.32</u>	<u>3.75</u>	<u>-113.9</u>					
	<u>1051</u>				<u>15.4</u>	<u>7.42</u>	<u>0.838</u>	<u>0.49</u>	<u>3.79</u>	<u>-129.0</u>					
	<u>1050</u>	<u>1.5</u>			<u>15.5</u>	<u>7.37</u>	<u>0.837</u>	<u>0.35</u>	<u>3.80</u>	<u>-128.2</u>					
	<u>1101</u>				<u>15.4</u>	<u>7.37</u>	<u>0.835</u>	<u>0.26</u>	<u>5.81</u>	<u>-128.7</u>					
	<u>1106</u>				<u>15.2</u>	<u>7.39</u>	<u>0.835</u>	<u>0.21</u>	<u>6.69</u>	<u>-126.8</u>					
	<u>1111</u>				<u>15.4</u>	<u>7.39</u>	<u>0.833</u>	<u>0.26</u>	<u>7.9</u>	<u>-125.8</u>					
	<u>1116</u>	<u>3.0</u>			<u>15.0</u>	<u>7.40</u>	<u>0.832</u>	<u>0.18</u>	<u>9.1</u>	<u>-124.3</u>					
NOTES (continued)								ABBREVIATIONS							
<p><u>Samples taken @ 1120</u></p> <p><u>Ferrous iron: Under range @ 1145</u></p>								Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

P 1 of 1

Monitoring Well Evaluation Checklist

Site <u>Hennepin, FL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/22/23 @ 1308</u>			X	
Well Number <u>HEON-21R</u>				
Stick-up Monitoring Wells				
1. Outer protective Casing	Yes	No	NA	Comments
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			
			X	
			X	
Flushmount Monitoring Wells				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	
All Monitoring Wells				
Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?	_____			
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		↓		
If present, how much sediment?	—	ft		
16. Installed as total depth.	—	ft		
17. Measured total depth of well.	—	ft		
General Condition				
18. Concrete pad installed?	X			
19. Concrete pad	_____			
Slope away from casing?		X		
Not deteriorated?		↓		
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	X			
Comments:				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 1300
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1430

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-21R</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (Military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1311 1311				17.8	7.56	0.768	1.17	59.8	-129.4	Clear
	1316 1316				17.3	7.54	0.704	1.22	58.5	-139.8	✓
	1321 1321				17.2	7.54	0.705	1.06	41.69	-139.9	Brownish
	1326 1326				17.1	7.53	0.769	1.18	33.94	-130.1	
	1331	2.5			17.9	7.52	0.765	0.95	34.3	-137.2	
	1336 1336				17.1	7.53	0.763	0.93	32.3	-134.9	
30	1341	3.0			16.6	7.51	0.742	0.21	34.8	-136.3	

NOTES (continued)	ABBREVIATIONS
Samples taken @ 1345 ferrous iron: 0.916 ppm	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

P 1 of 1

Monitoring Well Evaluation Checklist

Site <u>Hennepin IL</u> Inspection Date <u>8/22/23 @ 1:15</u> Well Number <u>HEN-51 5</u>	Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> </table>	Yes	No	NA		X																
Yes	No	NA																				
	X																					
Stick-up Monitoring Wells																						
1. Outer protective Casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X			↓		Comments											
Yes	No	NA																				
	X																					
	↓																					
2. Inner casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X			↓													
Yes	No	NA																				
	X																					
	↓																					
3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition?	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">↓</td> <td></td> <td></td> </tr> </table>	Yes	No	NA		X				X	X			↓								
Yes	No	NA																				
	X																					
		X																				
X																						
↓																						
Flushmount Monitoring Wells																						
8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present?	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">↓</td> </tr> </table>	Yes	No	NA			X			↓												
Yes	No	NA																				
		X																				
		↓																				
All Monitoring Wells																						
Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well.	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> <tr> <td>— ft</td> <td></td> <td></td> </tr> <tr> <td>— ft</td> <td></td> <td></td> </tr> <tr> <td>— ft</td> <td style="text-align: center;">← app</td> <td></td> </tr> </table>	Yes	No	NA			X		X			↓		— ft			— ft			— ft	← app	
Yes	No	NA																				
		X																				
	X																					
	↓																					
— ft																						
— ft																						
— ft	← app																					
General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled?	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X				X			↓		X								
Yes	No	NA																				
X																						
	X																					
	↓																					
X																						
Comments:																						
DTW on app																						
* Major well repair are those that require a subcontractor or separate mobilization to complete																						

PROJECT INFORMATION			
Site: <u>Hennepin, IL</u>	Client: <u>Ramboll</u>		
Project Number: _____	Task #: _____	Start Date: <u>8/22/23</u>	Time: <u>1500</u>
Field Personnel: <u>Allison Beckler</u>	Finish Date: _____		Time: _____

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-51</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1506				18.9	7.45	0.725	5.56	10.51	21.3	Clear
	1511				17.3	7.30	0.734	2.38	12.19	-88.3	
	1516				16.8	7.32	0.736	1.26	11.17	-105.3	
	1521	1.0			17.1	7.34	0.737	0.92	31.84	-115.5	
	1526				17.1	7.35	0.735	0.73	38.21	-122.1	
	1531				16.6	7.35	0.737	0.63	200.2	-124.5	
	1536	2.0			17.3	7.36	0.738	0.38	22.5	-126.7	
	1541				17.2	7.37	0.734	0.33	24.2	-127.4	
	1546				17.1	7.37	0.733	0.30	25.7	-127.7	
	1551	3.0			17.3	7.37	0.730	0.27	26.2	-128.6	

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1556</p> <p>Ferrous iron: 1.744 ppm @ 1618</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential</p> <p>FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance</p> <p>na - Not Applicable SU - Standard Units</p> <p>nm - Not Measured Temp - Temperature</p> <p> °C - Degrees Celsius</p>

P 1 of 1

Site Hennepin, IL Major wells repairs* required to maintain well integrity? Yes No NA
 Inspection Date 8/21/23 @ 1530
 Well Number HEC-22

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Not dented		↓		
Not cracked				
Not loose				
2. Inner casing				
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		<input checked="" type="checkbox"/>		
4. Weep holes able to drain?			<input checked="" type="checkbox"/>	
5. Is there a lockable cap present?	<input checked="" type="checkbox"/>			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?			<input checked="" type="checkbox"/>	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?			↓	

All Monitoring Wells

Downhole Condition

	Yes	No	NA	
12. Water level measuring point clearly marked?			<input checked="" type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				← on app

General Condition

	Yes	No	NA	
18. Concrete pad installed?		<input checked="" type="checkbox"/>		
19. Concrete pad				
Slope away from casing?			<input checked="" type="checkbox"/>	
Not deteriorated?			↓	
Not heaved or below surrounding grade?				
20. No surface seal settling?			↓	
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:
 DTW = on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>				Client: <u>Ramboll</u>											
Project Number: _____			Task #: _____			Start Date: <u>8/25/23</u>			Time: <u>08:15</u>						
Field Personnel: <u>ALISON BECKETT</u>				Finish Date: <u>8/25/23</u>				Time: <u>09:20</u>							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-22</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>0821</u>				<u>14.2</u>	<u>7.08</u>	<u>0.656</u>	<u>1.47</u>	<u>4.00</u>	<u>113.9</u>	<u>Clear</u>				
	<u>0824</u>				<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.27</u>	<u>4.10</u>	<u>92.6</u>					
	<u>0837</u>	<u>2.5</u>			<u>16.1</u>	<u>7.69</u>	<u>0.653</u>	<u>0.18</u>	<u>4.14</u>	<u>87.2</u>					
	<u>0836</u>				<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.14</u>	<u>4.20</u>	<u>78.8</u>					
	<u>0847</u>	<u>5</u>			<u>16.1</u>	<u>7.68</u>	<u>0.653</u>	<u>0.13</u>	<u>4.24</u>	<u>77.6</u>					
	<u>0846</u>	<u>5.5</u>			<u>16.1</u>	<u>7.67</u>	<u>0.653</u>	<u>0.12</u>	<u>4.31</u>	<u>77.8</u>					
NOTES (continued)								ABBREVIATIONS							
<p><u>Samples taken @ 0850</u></p> <p><u>Ferrous iron sample @ 0920: undr range</u></p>								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			

Monitoring Well Evaluation Checklist

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>2/22/23</u>			<input checked="" type="checkbox"/>	
Well Number <u>HW-32</u>				
<u>Stick-up Monitoring Wells</u>	<u>Comments</u>			
1. Outer protective Casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?	<input checked="" type="checkbox"/>			
6. Is there a lock present?	<input checked="" type="checkbox"/>			
7. Bumper posts in good condition?	<input checked="" type="checkbox"/>			
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?	/			
10. No water in the flushmount?	/			
11. Is the well cap lockable?	/			
12. Is there a lock present?	/			
<u>All Monitoring Wells</u>				
<u>Downhole Condition</u>				
12. Water level measuring point clearly marked?	Yes	No	NA	
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?		↓		
16. Installed as total depth.		ft		
17. Measured total depth of well.		ft		
<u>General Condition</u>				
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad		No		
Slope away from casing?		↓		
Not deteriorated?		↓		
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			
Comments:				

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>HENNEPIN</u>				Client: _____				Time: <u>1035</u>							
Project Number: <u>2023 0711</u>				Task #: _____				Start Date: <u>8/22/23</u>				Time: <u>1035</u>			
Field Personnel: <u>C. TREMBLAY</u>				Finish Date: _____				Time: <u>1135</u>							
WELL INFORMATION						EVENT TYPE									
Well ID: <u>Hen-32</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____									
Casing ID: _____ inches															
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	10. L10 Turbidity (NTU)	ORP (mV)	Visual Clarity				
PRE	1040	1			3.1	7.1	31	10%	41.69	+10	CLEAR				
SAMPLE	1048				14.0	7.10	0.718	0.45	41.69	123.6					
	1053				13.9	7.11	0.716	0.21	20.60	165.2					
	1058				13.8	7.10	0.715	0.12	13.02	160.1					
	1103	3			13.8	7.10	0.715	0.09	8.77	156.9					
	1108				13.8	7.10	0.716	0.09	7.30	153.9					
	1113	3.25			13.8	7.07	0.715	0.08	5.33	151.7					
	1118														
NOTES (continued)								ABBREVIATIONS							
SAMPLE @ 1115 FI UNDERWAY								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured				ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site <u>HENNEPIN</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/22/23</u>				
Well Number <u>33 @ 1018</u>				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?		X		
7. Bumper posts in good condition?	X	X	X	
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?	/			
10. No water in the flushmount?	/			
11. Is the well cap lockable?	/			
12. Is there a lock present?	/			
<u>All Monitoring Wells</u>				
<u>Downhole Condition</u>		Yes	No	NA
12. Water level measuring point clearly marked?				X
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	<u>36-12 ft</u>			
<u>General Condition</u>		Yes	No	NA
18. Concrete pad installed?				X
19. Concrete pad				
Slope away from casing?				
Not deteriorated?				
Not heaved or below surrounding grade?				↓
20. No surface seal settling?		X		
21. Well clearly visible and labeled?		X		overgrown weeds
Comments:				
<u>DTW</u>				
<u>same as well</u>				

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA	
Inspection Date <u>2/22/23 @ 0955</u>					
Well Number <u>30</u>					
<u>Stick-up Monitoring Wells</u>					
1. Outer protective Casing	Yes	No	NA	<u>Comments</u>	
Not corroded		X			
Not dented		↓			
Not cracked		↓			
Not loose		↓			
2. Inner casing	Yes	No	NA		
Not corroded		X			
Not dented		↓			
Not cracked		↓			
Not loose		↓			
3. Are there weep holes in outer casing?	Yes	No	NA		
			X		
4. Weep holes able to drain?			X		
5. Is there a lockable cap present?	X				
6. Is there a lock present?	X				
7. Bumper posts in good condition?	X				
<u>Flushmount Monitoring Wells</u>					
8. Can the lid be secured tightly?	Yes	No	NA		
9. Does the lid have a gasket that seals?					
10. No water in the flushmount?					
11. Is the well cap lockable?					
12. Is there a lock present?					
<u>All Monitoring Wells</u>					
Downhole Condition	Yes	No	NA		
12. Water level measuring point clearly marked?			X		
13. No obstructions in well?		X			
14. No plant roots or vegetation in well?		X			
15. No sediment in bottom of well?		X			
If present, how much sediment?					
16. Installed as total depth.					
17. Measured total depth of well.					
				8 ft	
				ft	
				ft	
General Condition	Yes	No	NA		
18. Concrete pad installed?	X				
19. Concrete pad					
Slope away from casing?		X			
Not deteriorated?		X			
Not heaved or below surrounding grade?		X			
20. No surface seal settling?		X			
21. Well clearly visible and labeled?	X				
Comments:					
<u>DTW 4.85</u>					
* Major well repair are those that require a subcontractor or separate mobilization to complete					

Site	HENNEPIN			Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	8/22 0945						
Well Number	HEN 25						
Stick-up Monitoring Wells				Comments			
1. Outer protective Casing	Yes	No	NA				
Not corroded		X					
Not dented		↓					
Not cracked							
Not loose							
2. Inner casing	Yes	No	NA				
Not corroded		X					
Not dented		↓					
Not cracked							
Not loose							
3. Are there weep holes in outer casing?	Yes	No	NA				
4. Weep holes able to drain?	X		X				
5. Is there a lockable cap present?	X	X					
6. Is there a lock present?		X					
7. Bumper posts in good condition?	X						
Flushmount Monitoring Wells				Yes	No	NA	
8. Can the lid be secured tightly?	/						
9. Does the lid have a gasket that seals?							
10. No water in the flushmount?							
11. Is the well cap lockable?							
12. Is there a lock present?							
All Monitoring Wells				Yes	No	NA	
Downhole Condition						X	
12. Water level measuring point clearly marked?		X					
13. No obstructions in well?		X					
14. No plant roots or vegetation in well?		X					
15. No sediment in bottom of well?		X					
If present, how much sediment?	ft						
16. Installed as total depth.	ft						
17. Measured total depth of well.	15.71 ft	w/o pump 25.71					
General Condition				Yes	No	NA	
18. Concrete pad installed?	X						
19. Concrete pad							
Slope away from casing?		X					
Not deteriorated?		X					
Not heaved or below surrounding grade?		X					
20. No surface seal settling?		X					
21. Well clearly visible and labeled?	X						
Comments:							
WELL HAS PUMP * WHEN SFT UP TO SAMPLE NOTICED BRASS							
DTW 14.02 FITTING HAD CRACK							

* Major well repair are those that require a subcontractor or separate mobilization to complete

DTW w/o pump 135

PROJECT INFORMATION																
Site: _____				Client: _____												
Project Number: _____				Task #: _____				Start Date: <u>8/22/23</u>		Time: <u>1335</u>						
Field Personnel: <u>L. Tromblay</u>				Finish Date: _____				Time: <u>1455</u>								
WELL INFORMATION					EVENT TYPE											
Well ID: <u>25</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
PRA	1342		13.8'								Cloudy					
PURGE	1348	0.25	13.51						65.57		CLEAR					
SAMPLE	1350		13.51	Ø	17.0	7.25	0.519	1.52	65.57	171.1						
	1355				16.6	7.25	0.519	1.46	42.11	171.7						
	1400				16.6	7.24	0.517	1.46	26.88	172.4						
	1405		13.51	Ø	16.6	7.24	0.516	1.48	17.97	173.8						
	1410				16.8	7.23	0.516	1.51	13.11	174.6						
	1415	3			16.6	7.23	0.516	1.52	9.47	175.2						
	1420				16.5	7.22	0.514	1.56	8.29	175.9						
	1425	4	13.51	Ø	16.6	7.22	0.514	1.59	6.43	176.5						
	1430															
NOTES (continued)							ABBREVIATIONS									
* Ø GEOTECH PUMP FL - UNDERWAY SAMPLE @ 1430							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				

Monitoring Well Evaluation Checklist

Site <u>HENNEPIN</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8-22-23 0940</u>				
Well Number <u>HEN 26</u>				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing				
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X	⊗		
6. Is there a lock present?			X	
7. Bumper posts in good condition?	X			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?	/			
9. Does the lid have a gasket that seals?	/			
10. No water in the flushmount?	/			
11. Is the well cap lockable?	/			
12. Is there a lock present?	/			

All Monitoring Wells

Downhole Condition

	Yes	No	NA	
12. Water level measuring point clearly marked?		X		
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		X		
If present, how much sediment?	⊗			
ft				
16. Installed as total depth.				
ft				
17. Measured total depth of well.				29.1 ft

General Condition

	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		↓		
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			

Comments:

WELL HAS pump
DTW 13.26'

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: _____			Client: _____			Project Number: _____			Task #: _____		
Field Personnel: <u>TREMBLAY</u>			Start Date: <u>8/22/23</u>			Time: <u>1455</u>			Finish Date: _____		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>26</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	1500	0.1	13.8								CLEAR
SAMPLE	1505		13.8		17.3	7.09	0.784	0.51	2.31	186.1	
	1511				17.2	7.09	0.784	0.18	2.37	183.6	
	1516	1.5			17.1	7.09	0.784	0.10	2.40	181.8	
	1521				17.0	7.09	0.785	0.04	2.41	179.9	
	1526				17.0	7.09	0.784	0.02	2.44	178.6	
	1531	3.0	13.9	-0.1	16.9	7.09	0.784	0.02	2.50	177.0	
NOTES (continued)						ABBREVIATIONS					
<p><u>FR UNDERWAY</u> <u>SAMPLE @ 1535</u></p>						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					

Monitoring Well Evaluation Checklist

Site <u>Hennepin IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA	Comments
Inspection Date <u>8/23/23 @ 1350</u>			X		
Well Number <u>HEN-47</u>					

Stick-up Monitoring Wells	Yes	No	NA	
1. Outer protective Casing		X		
Not corroded				
Not dented				
Not cracked				
Not loose				
2. Inner casing		X		
Not corroded				
Not dented				
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells	Yes	No	NA	
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				

General Condition	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments: DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION			
Site: <u>Hennepin, IL</u>	Client: _____		
Project Number: _____	Task #: _____	Start Date: <u>8/23/23</u>	Time: <u>1055</u>
Field Personnel: <u>Allison Beckwith</u>	Finish Date: _____		Time: <u>1407</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-47</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1507				22.9	7.96	0.404	6.05	3.85	113.7	clear
	1506				21.6	7.03	0.640	2.36	3.18	148.2	↓
	1511	1.0			21.6	7.03	0.640	2.05	3.12	152.0	
	1514				21.6	7.03	0.639	1.79	3.02	154.6	
	1521				21.5	7.03	0.641	1.68	3.01	156.2	
	1526	2.5			21.5	7.04	0.639	1.52	3.20	155.3	

NOTES (continued)

Samples taken @ 1530

Ferrrous iron @ 1600 : Under range

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

Monitoring Well Evaluation Checklist

<p>Site Hennepin #1</p> <p>Inspection Date 8/23/23 @ 1105</p> <p>Well Number HEN-12</p>	<p>Major wells repairs* required to maintain well integrity?</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td></td> </tr> </table>	Yes	No	NA		X													
Yes	No	NA																	
	X																		
Stick-up Monitoring Wells	Comments																		
1. Outer protective Casing	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td></td> </tr> <tr> <td>Not corroded</td> <td></td> <td></td> </tr> <tr> <td>Not dented</td> <td style="text-align:center;">↓</td> <td></td> </tr> <tr> <td>Not cracked</td> <td></td> <td></td> </tr> <tr> <td>Not loose</td> <td style="text-align:center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X		Not corroded			Not dented	↓		Not cracked			Not loose	↓	
Yes	No	NA																	
	X																		
Not corroded																			
Not dented	↓																		
Not cracked																			
Not loose	↓																		
2. Inner casing	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td></td> </tr> <tr> <td>Not corroded</td> <td></td> <td></td> </tr> <tr> <td>Not dented</td> <td style="text-align:center;">↓</td> <td></td> </tr> <tr> <td>Not cracked</td> <td></td> <td></td> </tr> <tr> <td>Not loose</td> <td style="text-align:center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X		Not corroded			Not dented	↓		Not cracked			Not loose	↓	
Yes	No	NA																	
	X																		
Not corroded																			
Not dented	↓																		
Not cracked																			
Not loose	↓																		
3. Are there weep holes in outer casing?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td></td> </tr> </table>	Yes	No	NA		X													
Yes	No	NA																	
	X																		
4. Weep holes able to drain?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">X</td> </tr> </table>	Yes	No	NA			X												
Yes	No	NA																	
		X																	
5. Is there a lockable cap present?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X														
Yes	No	NA																	
X																			
6. Is there a lock present?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td style="text-align:center;">↓</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	↓														
Yes	No	NA																	
↓																			
7. Bumper posts in good condition?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td style="text-align:center;">↓</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	↓														
Yes	No	NA																	
↓																			
Flushmount Monitoring Wells																			
8. Can the lid be secured tightly?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">X</td> </tr> </table>	Yes	No	NA			X												
Yes	No	NA																	
		X																	
9. Does the lid have a gasket that seals?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">↓</td> </tr> </table>	Yes	No	NA			↓												
Yes	No	NA																	
		↓																	
10. No water in the flushmount?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">↓</td> </tr> </table>	Yes	No	NA			↓												
Yes	No	NA																	
		↓																	
11. Is the well cap lockable?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">↓</td> </tr> </table>	Yes	No	NA			↓												
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Yes	No	NA																	
		↓																	
All Monitoring Wells																			
Downhole Condition																			
12. Water level measuring point clearly marked?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td style="text-align:center;">X</td> </tr> </table>	Yes	No	NA		X	X												
Yes	No	NA																	
	X	X																	
13. No obstructions in well?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		↓													
Yes	No	NA																	
	↓																		
14. No plant roots or vegetation in well?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		↓													
Yes	No	NA																	
	↓																		
15. No sediment in bottom of well?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">↓</td> <td></td> </tr> </table>	Yes	No	NA		↓													
Yes	No	NA																	
	↓																		
If present, how much sediment?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">—</td> <td style="width:33%;">ft</td> <td style="width:33%;"> </td> </tr> <tr> <td style="width:33%;">—</td> <td style="width:33%;">ft</td> <td style="width:33%;"> </td> </tr> <tr> <td style="width:33%;">—</td> <td style="width:33%;">ft</td> <td style="width:33%;"> </td> </tr> </table>	—	ft		—	ft		—	ft										
—	ft																		
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16. Installed as total depth.																			
17. Measured total depth of well.																			
General Condition																			
18. Concrete pad installed?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td style="text-align:center;">X</td> <td></td> </tr> </table>	Yes	No	NA		X													
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	X																		
19. Concrete pad	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td>Slope away from casing?</td> <td></td> <td style="text-align:center;">↓</td> </tr> <tr> <td>Not deteriorated?</td> <td></td> <td style="text-align:center;">↓</td> </tr> <tr> <td>Not heaved or below surrounding grade?</td> <td></td> <td style="text-align:center;">↓</td> </tr> </table>	Yes	No	NA	Slope away from casing?		↓	Not deteriorated?		↓	Not heaved or below surrounding grade?		↓						
Yes	No	NA																	
Slope away from casing?		↓																	
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Not heaved or below surrounding grade?		↓																	
20. No surface seal settling?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td></td> <td></td> <td style="text-align:center;">↓</td> </tr> </table>	Yes	No	NA			↓												
Yes	No	NA																	
		↓																	
21. Well clearly visible and labeled?	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">Yes</td> <td style="width:33%;">No</td> <td style="width:33%;">NA</td> </tr> <tr> <td style="text-align:center;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X														
Yes	No	NA																	
X																			
Comments:																			
DTW: on app																			
* Major well repair are those that require a subcontractor or separate mobilization to complete																			

Monitoring Well Evaluation Checklist

Site <u>Hennepin 12</u> Inspection Date <u>8/23/23 @ 8:25</u> Well Number <u>HEN-46</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA																		
			X																			
Stick-up Monitoring Wells																						
1. Outer protective Casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table>	Yes	No	NA		X			↓			↓		Comments								
Yes	No	NA																				
	X																					
	↓																					
	↓																					
2. Inner casing Not corroded Not dented Not cracked Not loose	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table>	Yes	No	NA		X			↓			↓										
Yes	No	NA																				
	X																					
	↓																					
	↓																					
3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> </table>	Yes	No	NA		X				X	↓			↓								
Yes	No	NA																				
	X																					
		X																				
↓																						
↓																						
Flushmount Monitoring Wells																						
8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> </table>	Yes	No	NA			X			↓			↓									
Yes	No	NA																				
		X																				
		↓																				
		↓																				
All Monitoring Wells																						
Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table>	Yes	No	NA		X	X		↓			↓										
Yes	No	NA																				
	X	X																				
	↓																					
	↓																					
General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled?	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> </table>	Yes	No	NA	X				X			↓			↓		X					
Yes	No	NA																				
X																						
	X																					
	↓																					
	↓																					
X																						
Comments:																						
DTW: on app																						
* Major well repair are those that require a subcontractor or separate mobilization to complete																						

PROJECT INFORMATION			
Site: <u>Hennepin, IL</u>	Client: <u>3 Ramboll</u>		
Project Number: _____	Task #: _____	Start Date: <u>9/20/23</u>	Time: <u>0810</u>
Field Personnel: <u>Allison Becker</u>		Finish Date: _____	Time: <u>0930</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-46</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	<u>0819</u>				<u>20.9</u>	<u>7.40</u>	<u>0.559</u>	<u>3.37</u>	<u>6.58</u>	<u>127.4</u>	<u>clear</u>
	<u>0824</u>				<u>20.8</u>	<u>7.35</u>	<u>0.500</u>	<u>2.44</u>	<u>4.01</u>	<u>142.5</u>	
	<u>0829</u>				<u>20.8</u>	<u>7.35</u>	<u>0.500</u>	<u>2.34</u>	<u>5.82</u>	<u>144.1</u>	
	<u>0834</u>	<u>1.5</u>			<u>20.8</u>	<u>7.34</u>	<u>0.500</u>	<u>2.19</u>	<u>9.84</u>	<u>144.5</u>	
	<u>0839</u>				<u>20.8</u>	<u>7.34</u>	<u>0.558</u>	<u>2.06</u>	<u>14.58</u>	<u>144.3</u>	
	<u>0844</u>				<u>20.8</u>	<u>7.33</u>	<u>0.558</u>	<u>1.99</u>	<u>17.95</u>	<u>143.7</u>	
30	<u>0849</u>	<u>3.0</u>			<u>20.8</u>	<u>7.33</u>	<u>0.559</u>	<u>1.91</u>	<u>18.25</u>	<u>143.2</u>	
					<u>20.9</u>	<u>7.33</u>	<u>0.559</u>	<u>1.85</u>	<u>18.98</u>	<u>142.2</u>	↓

NOTES (continued)	ABBREVIATIONS
<p><u>Samples taken @ 0855</u></p> <p><u>Ferrous iron: Under range @ 0910</u></p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential</p> <p>FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance</p> <p>na - Not Applicable SU - Standard Units</p> <p>nm - Not Measured Temp - Temperature</p> <p> °C - Degrees Celsius</p>

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/23/23 @ 1334</u>			X	
Well Number <u>HEN-54</u>				

Stick-up Monitoring Wells

1. Outer protective Casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
2. Inner casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
3. Are there weep holes in outer casing?
4. Weep holes able to drain?
5. Is there a lockable cap present?
6. Is there a lock present?
7. Bumper posts in good condition?

Yes	No	NA
	X	
	↓	
	↓	
	↓	
	↓	
	X	
		X
X		
↓		

Comments

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
9. Does the lid have a gasket that seals?
10. No water in the flushmount?
11. Is the well cap lockable?
12. Is there a lock present?

Yes	No	NA
		X
		↓
		↓

All Monitoring Wells

- Downhole Condition**
12. Water level measuring point clearly marked?
 13. No obstructions in well?
 14. No plant roots or vegetation in well?
 15. No sediment in bottom of well?
If present, how much sediment?
 16. Installed as total depth.
 17. Measured total depth of well.

Yes	No	NA
		X
	X	
	↓	

General Condition

18. Concrete pad installed?
19. Concrete pad
 - Slope away from casing?
 - Not deteriorated?
 - Not heaved or below surrounding grade?
20. No surface seal settling?
21. Well clearly visible and labeled?

Yes	No	NA
X		
	X	
	↓	
	↓	
X		

Comments:
DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION 1

Site: Hennepin, IL Client: ROmball
 Project Number: _____ Task #: _____ Start Date: 8/23/23 Time: 1300
 Field Personnel: Allison Beckwith Finish Date: _____ Time: 1455

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-54</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	13 14 14				22.7 22.7	7.36	0.565	6.10	5.99	113.9	clear
	13 19 19				23.0	7.32	0.574	3.58	24.10	128.2	
	13 24 24	1.0			22.7	7.31	0.577	3.00	23.14	133.1	
	13 29 29				22.4	7.31	0.576	2.71	19.6	131.2	
	13 34 34				22.3	7.31	0.577	2.49	18.41	137.0	
	13 3.9 3.9				22.4	7.30	0.577	2.40	14.50	140.2	
	1344				22.3	7.31	0.577	2.39	14.88	140.1	
35	1349	2.5			22.6	7.30	0.576	2.31	13.82	141.0	

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1350</p> <p>Ferrous iron sample @ 1450: 5.371</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius</p>

Monitoring Well Evaluation Checklist

Site <u>Hennepin Jb</u> Inspection Date <u>9/23/23 @ 11:10</u> Well Number <u>HEN-13</u>	Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> </table>	Yes	No	NA		X		
Yes	No	NA						
	X							
Stick-up Monitoring Wells	Comments							
1. Outer protective Casing								
Not corroded	X							
Not dented	↓							
Not cracked	↓							
Not loose	↓							
2. Inner casing								
Not corroded	X							
Not dented	↓							
Not cracked	↓							
Not loose	↓							
3. Are there weep holes in outer casing?	X							
4. Weep holes able to drain?	X							
5. Is there a lockable cap present?	X							
6. Is there a lock present?	↓							
7. Bumper posts in good condition?	↓							
Flushmount Monitoring Wells								
8. Can the lid be secured tightly?	X							
9. Does the lid have a gasket that seals?	↓							
10. No water in the flushmount?	↓							
11. Is the well cap lockable?	↓							
12. Is there a lock present?	↓							
All Monitoring Wells								
Downhole Condition								
12. Water level measuring point clearly marked?	X							
13. No obstructions in well?	↓							
14. No plant roots or vegetation in well?	↓							
15. No sediment in bottom of well?	↓							
If present, how much sediment?	—	ft						
16. Installed as total depth.	—	ft						
17. Measured total depth of well.	—	ft						
General Condition								
18. Concrete pad installed?	X							
19. Concrete pad	~~~~~							
Slope away from casing?	↓							
Not deteriorated?	↓							
Not heaved or below surrounding grade?	↓							
20. No surface seal settling?	↓							
21. Well clearly visible and labeled?	X							
Comments:								
<u>DTW - on app</u>								
* Major well repair are those that require a subcontractor or separate mobilization to complete								

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/23/23 Time: 1055
 Field Personnel: Allison Belkett Finish Date: _____ Time: 1255

WELL INFORMATION		EVENT TYPE	
Well ID: <u>HEN-13</u>	<input type="checkbox"/> Well Development	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling	
Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Volume Approach Sampling	<input type="checkbox"/> Other (Specify):	

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1057				21.5	7.33	0.552	11.30	3.19	152.0	Clear
	1102				21.0	7.37	0.502	3.07	3.18	152.7	
	1107	1.00			21.0	7.38	0.503	3.47	3.19	151.1	
	1112				21.0	7.38	0.503	2.33	2.20	149.9	
	1117				21.0	7.39	0.503	2.23	3.21	149.9	
	1122	2.0			21.4	7.39	0.503	2.10	3.05	150.2	

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1125</p> <p>Ferrous iron @ 1145: Under range</p> <p>dupe @ 1125</p>	<p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p>

PROJECT INFORMATION															
Site: _____			Client: _____												
Project Number: <u>2023-074</u>			Task #: _____			Start Date: <u>8/23/23</u>			Time: <u>1318</u>						
Field Personnel: <u>TRENBERG</u>			Finish Date: _____			Time: <u>1435</u>									
WELL INFORMATION					EVENT TYPE										
Well ID: <u>14D</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>PRE</u>															
<u>PURGE</u>	<u>1330</u>	<u>0.1</u>									<u>CLEAR</u>				
	<u>1333</u>				<u>21.3</u>	<u>7.22</u>	<u>0.692</u>	<u>2.84</u>	<u>15.81</u>	<u>169.2</u>					
	<u>1338</u>				<u>21.3</u>	<u>7.17</u>	<u>0.688</u>	<u>0.78</u>	<u>6.81</u>	<u>79.1</u>					
	<u>1343</u>	<u>1.5</u>			<u>21.2</u>	<u>7.17</u>	<u>0.684</u>	<u>0.33</u>	<u>10.25</u>	<u>72.2</u>					
	<u>1348</u>				<u>21.2</u>	<u>7.17</u>	<u>0.684</u>	<u>0.18</u>	<u>11.18</u>	<u>71.7</u>					
	<u>1353</u>				<u>21.1</u>	<u>7.18</u>	<u>0.684</u>	<u>0.17</u>	<u>10.44</u>	<u>68.3</u>					
	<u>1358</u>	<u>2</u>			<u>21.2</u>	<u>7.18</u>	<u>0.685</u>	<u>0.17</u>	<u>10.26</u>	<u>68.2</u>					
NOTES (continued)								ABBREVIATIONS							
<u>SAMPLE @ 1405</u> <u>FI - UNDER</u>								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			

Monitoring Well Evaluation Checklist

Site	<u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	<u>8/21/23 @ 1115</u>			X	
Well Number	<u>HEN-05DR</u>				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented				
Not cracked				
Not loose				
2. Inner casing				
Not corroded		X		
Not dented				
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?				
7. Bumper posts in good condition?				

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition

	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				<u>108.10 ft</u>

General Condition

	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?				
Not heaved or below surrounding grade?				
20. No surface seal settling?				
21. Well clearly visible and labeled?	X			

Comments:

DTW: 38.79 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION													
Site: <u>HENNEPIN</u>				Client: _____									
Project Number: <u>2023 0711</u>				Task #: _____				Start Date: <u>8/23/23</u>		Time: <u>1155</u>			
Field Personnel: <u>C. CREMBLY</u>				Finish Date: _____				Time: <u>1305</u>					
WELL INFORMATION					EVENT TYPE								
Well ID: <u>OSD1C</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling						
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____						
WATER QUALITY INDICATOR PARAMETERS (continued)													
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity		
<u>PRE</u>	<u>1155</u>	<u>38.73</u>	<u>38.73</u>	<u>0</u>									
<u>PURGE</u>	<u>1205</u>	<u>2.15</u>	<u>38.73</u>	<u>0</u>							<u>CLEAR</u>		
	<u>1210</u>	<u>0.75</u>	<u>38.73</u>	<u>0</u>	<u>21.2</u>	<u>7.41</u>	<u>0.632</u>	<u>0.77</u>	<u>2.81</u>	<u>169.5</u>			
	<u>1215</u>		<u>38.73</u>	<u>0</u>	<u>20.6</u>	<u>7.41</u>	<u>0.631</u>	<u>0.28</u>	<u>2.54</u>	<u>162.7</u>			
	<u>1220</u>		<u>38.73</u>	<u>0</u>	<u>20.6</u>	<u>7.42</u>	<u>0.631</u>	<u>0.20</u>	<u>2.67</u>	<u>165.1</u>			
	<u>1225</u>	<u>1.25</u>	<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.18</u>	<u>2.23</u>	<u>163.5</u>			
	<u>1230</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.16</u>	<u>2.35</u>	<u>161.7</u>			
	<u>1235</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.15</u>	<u>2.51</u>	<u>160.2</u>			
	<u>1240</u>		<u>38.73</u>		<u>20.8</u>	<u>7.41</u>	<u>0.631</u>	<u>0.15</u>	<u>2.12</u>	<u>158.8</u>			
NOTES (continued)										ABBREVIATIONS			
<p><u>SAMPLE @ - 1145</u> <u>FI - UNDERWAY</u></p>										Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured		ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius	

Monitoring Well Evaluation Checklist

Site <u>Hennepin, I2</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23 @ 1105</u>			X	
Well Number <u>HEN-05R</u>				

Stick-up Monitoring Wells			
1. Outer protective Casing	Yes	No	NA
Not corroded		X	
Not dented		↓	
Not cracked			
Not loose		↓	
2. Inner casing	Yes	No	NA
Not corroded		X	
Not dented		↓	
Not cracked			
Not loose		↓	
3. Are there weep holes in outer casing?	Yes	No	NA
		X	
4. Weep holes able to drain?			X
5. Is there a lockable cap present?	X		
6. Is there a lock present?	↓		
7. Bumper posts in good condition?	↓		
Flushmount Monitoring Wells			
8. Can the lid be secured tightly?	Yes	No	NA
			X
9. Does the lid have a gasket that seals?			↓
10. No water in the flushmount?			↓
11. Is the well cap lockable?			↓
12. Is there a lock present?			↓
All Monitoring Wells			
Downhole Condition	Yes	No	NA
12. Water level measuring point clearly marked?			X
13. No obstructions in well?		X	
14. No plant roots or vegetation in well?		↓	
15. No sediment in bottom of well?			
If present, how much sediment?	—	ft	
16. Installed as total depth.		ft	
17. Measured total depth of well.		40.05	ft
General Condition	Yes	No	NA
18. Concrete pad installed?	X		
19. Concrete pad			
Slope away from casing?		X	
Not deteriorated?		↓	
Not heaved or below surrounding grade?			
20. No surface seal settling?		↓	
21. Well clearly visible and labeled?	X		
Comments:	<u>DTW: 38.00 pump installed</u>		

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION																
Site: <u>HENNEP2U</u>			Client: _____													
Project Number: <u>2023-07U</u>			Task #: _____			Start Date: <u>8/23/23</u>			Time: <u>1036</u>							
Field Personnel: <u>C. TREMBLY</u>			Finish Date: _____			Time: <u>150</u>			_____							
WELL INFORMATION					EVENT TYPE											
Well ID: <u>OSR</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)																
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity					
PRE	1036		38.69													
PURGE	1042	0.1	38.69	Q			0.646	1.60	27.51	118.9	CLEAR ↓					
SAMPLE	1048	0.5	38.69	Q	20.6	7.61	0.646	1.60	27.51	118.9						
	1053		38.69	Q	20.6	7.61	0.644	0.36	18.70	136.8						
	1058		38.69	Q	20.5	7.61	0.643	0.23	12.41	141.0						
	1103	1.25	38.69	Q	20.8	7.61	0.643	0.19	8.77	142.8						
	1108		38.69	Q	20.6	7.61	0.644	0.17	7.00	143.7						
	1113		38.69	Q	20.8	7.61	0.643	0.15	5.15	144.0						
	1118	2.5	38.69	Q	20.6	7.61	0.645	0.14	4.41	144.2						
	1123				20.3	7.62	0.644	0.14	3.55	144.2						
NOTES (continued)							ABBREVIATIONS									
SAMPLE@ - 1130 FI - 0.806 ppm							Cond. - Actual Conductivity					ORP - Oxidation-Reduction Potential				
							FT BTOC - Feet Below Top of Casing					SEC - Specific Electrical Conductance				
							na - Not Applicable					SU - Standard Units				
							nm - Not Measured					Temp - Temperature				
												°C - Degrees Celsius				

Monitoring Well Evaluation

Site Hennepin II	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/24/23 @ 1055		<input checked="" type="checkbox"/>		
Well Number HEN-48				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented	X	X		SMALL DEVT
Not cracked		X		
Not loose	X			WELL IS LOOSE

	Yes	No	NA	
2. Inner casing				
Not corroded		X		
Not dented		X		
Not cracked	X			INNER CASE CRACKED
Not loose	X			

	Yes	No	NA	
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?	X			
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?			X	
11. Is the well cap lockable?				
12. Is there a lock present?				

All Monitoring Wells

Downhole Condition

	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?	X			CRACKED well
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?			X	
If present, how much sediment?				ft
16. Installed as total depth.				ft
17. Measured total depth of well.				ft

General Condition

	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?	X			
Not deteriorated?		X		
Not heaved or below surrounding grade?	X			
20. No surface seal settling?	X			
21. Well clearly visible and labeled?	X			

Comments:

COULD NOT TAKE WATER LEVEL READING DUE TO BLOCKAGE

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: <u>HENNEP2U</u>						Client: _____					
Project Number: <u>2023 024</u>				Task #: _____		Start Date: <u>8/23/23</u>				Time: <u>0931</u>	
Field Personnel: <u>[Signature]</u>				Finish Date: _____		Time: <u>1030</u>				Time: _____	
WELL INFORMATION						EVENT TYPE					
Well ID: <u>48</u>						<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____					
Casing ID: _____ inches											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0937											
PURGE	0937	0.11			20.9	7.63	0.601	1.93	5.23	163.4	CLEAR
SAMPLE	0943	0.75			20.9	7.63	0.601	1.93	5.23	163.4	↓
	0948				20.8	7.62	0.590	0.50	4.37	160.2	
	0953				20.7	7.62	0.589	0.24	3.28	157.8	
	0958				20.5	7.62	0.589	0.18	2.71	154.3	
	1003	2.25			20.7	7.62	0.589	0.15	2.22	152.0	
	1008				20.7	7.62	0.589	0.13	2.30	150.3	
	1013				20.7	7.62	0.589	0.12	2.09	148.7	
	1018	3			20.8	7.62	0.589	0.11	2.01	147.4	
NOTES (continued)						ABBREVIATIONS					
* WELL HAS OBSTRUCTION INSIDE CASING. COULD NOT MEASURE WATER SAMPLE @ - 1020 FI - UNDERWAY						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					

Monitoring Well Evaluation Checklist

Site Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/21/23 @ 1050			X	
Well Number HEN-405				

	Yes	No	NA	Comments
<u>Stick-up Monitoring Wells</u>				
1. Outer protective Casing				
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
2. Inner casing				
Not corroded		Y		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?				
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?				
<u>All Monitoring Wells</u>				
Downhole Condition				
12. Water level measuring point clearly marked?		X		
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				37.92ft
General Condition				
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		↓		
Not heaved or below surrounding grade?				
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	X			
Comments:				37.92'
DTW: 30.00 30.00 ft pump installed				

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: <u>HENNEP3</u>			Client: _____								
Project Number: <u>2023 0711</u>			Task #: _____			Start Date: <u>8/23/23</u>			Time: <u>0820</u>		
Field Personnel: <u>C TRUMBULL</u>			Finish Date: _____			Time: <u>0919</u>			Time: _____		
WELL INFORMATION					EVENT TYPE						
Well ID: <u>405</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PRE	0832		37.92	0							
Purge	0836	0.1	37.92	0							CLEAR
SAMPLE	0841		37.92	0	19.0	7.89	0.581	2.20	4.25	149.6	↓
	0846	1.5	37.92	0	18.8	7.89	0.579	0.41	3.29	143.4	
	0851		37.92	0	19.7	7.98	0.579	0.44	2.58	139.1	
	0856		37.92	0	18.7	7.88	0.579	0.37	2.16	135.7	
	0901	2.75	37.92	0	18.8	7.88	0.579	0.37	2.13	133.5	
NOTES (continued)							ABBREVIATIONS				
<p>SAMPLE @ 0905</p> <p>FT - HAND PUMP</p>							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				

Monitoring Well Evaluation Checklist

Site <u>HENNEPIN</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>9/24/23</u>			/	
Well Number <u>PCN-35</u>				

	Yes	No	NA	
Stick-up Monitoring Wells				Comments
1. Outer protective Casing				
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
2. Inner casing				
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			
Flushmount Monitoring Wells				
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?				
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	
All Monitoring Wells				
Downhole Condition				
12. Water level measuring point clearly marked?		X		
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		X		
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
General Condition				
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site <u>HENNEPIN, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/24/23</u>			x	
Well Number <u>HEN-52</u>				

				Comments
Stick-up Monitoring Wells				
1. Outer protective Casing	Yes	No	NA	
Not corroded		x		
Not dented		↓		
Not cracked				
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		x		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		x		
5. Is there a lockable cap present?			x	
6. Is there a lock present?	↓			
7. Bumper posts in good condition?				
Flushmount Monitoring Wells				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			x	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	
All Monitoring Wells				
Downhole Condition				
12. Water level measuring point clearly marked?			x	
13. No obstructions in well?		x		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?	—	ft		
16. Installed as total depth.	—	ft		
17. Measured total depth of well.	—	ft		
General Condition				
18. Concrete pad installed?	x			
19. Concrete pad	—————			
Slope away from casing?		x		
Not deteriorated?		↓		
Not heaved or below surrounding grade?				
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	x			
Comments:				
<u>DTW: on app</u>				

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site HENNEPIN, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/24/23 @ 1400				
Well Number HEN-80				
Stick-up Monitoring Wells		Comments		
1. Outer protective Casing	Yes	No	NA	
Not corroded		x		
Not dented		x		
Not cracked		x		
Not loose		x		
2. Inner casing	Yes	No	NA	
Not corroded		x		
Not dented		x		
Not cracked		x		
Not loose		x		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		x		
5. Is there a lockable cap present?	x		x	
6. Is there a lock present?	x			
7. Bumper posts in good condition?	x			
Flushmount Monitoring Wells				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			x	
10. No water in the flushmount?			x	
11. Is the well cap lockable?			x	
12. Is there a lock present?			x	
All Monitoring Wells				
Downhole Condition		Yes	No	NA
12. Water level measuring point clearly marked?				x
13. No obstructions in well?		x		
14. No plant roots or vegetation in well?		x		
15. No sediment in bottom of well?		x		
If present, how much sediment?	—	ft		
16. Installed as total depth.	—	ft		
17. Measured total depth of well.	—	ft		
General Condition		Yes	No	NA
18. Concrete pad installed?	x			
19. Concrete pad				
Slope away from casing?		x		
Not deteriorated?		x		
Not heaved or below surrounding grade?		x		
20. No surface seal settling?		x		
21. Well clearly visible and labeled?	x			
Comments:				
Division app				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

Site	Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	8/24/23 1:35			X	
Well Number	HEN-07				

Stick-up Monitoring Wells

Comments

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
2. Inner casing				
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	

All Monitoring Wells

	Yes	No	NA	
Downhole Condition				
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				

General Condition

	Yes	No	NA	
18. Concrete pad installed?		X		
19. Concrete pad				
Slope away from casing?			X	
Not deteriorated?			↓	
Not heaved or below surrounding grade?			↓	
20. No surface seal settling?			↓	
21. Well clearly visible and labeled?	X			

Comments:

DTW on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin J2 Client: _____
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 1320
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1430

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-07</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1332				14.4	6.98	0.727	5.73	5.16	166.3	clear
	1337				14.0	6.97	0.698	4.25	4.45	174.5	
	1342	2.0			13.9	6.94	0.701	4.20 4.20	4.09	170.4	
	1347				13.9	6.94	0.700	4.16	3.85	178.7	
	1352	3.0			13.8	6.93	0.699	4.16	3.57	179.6	
	1357				13.8	6.91	0.699	4.15	3.55	179.9	↓

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @1400</p> <p>Ferrous iron sample @1400: under range</p>	<p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p>

Monitoring Well Evaluation Checklist

Site	Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	8/24/23 @ 1452			X	
Well Number	HEN-03				

Stick-up Monitoring Wells

1. Outer protective Casing
- Not corroded
 - Not dented
 - Not cracked
 - Not loose

Yes	No	NA
	X	

Comments

2. Inner casing
- Not corroded
 - Not dented
 - Not cracked
 - Not loose

Yes	No	NA
	X	

3. Are there weep holes in outer casing?
4. Weep holes able to drain?
5. Is there a lockable cap present?
6. Is there a lock present?
7. Bumper posts in good condition?

Yes	No	NA
	X	
		X
X		

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
9. Does the lid have a gasket that seals?
10. No water in the flushmount?
11. Is the well cap lockable?
12. Is there a lock present?

Yes	No	NA
		X

All Monitoring Wells

- Downhole Condition**
12. Water level measuring point clearly marked?
13. No obstructions in well?
14. No plant roots or vegetation in well?
15. No sediment in bottom of well?
- If present, how much sediment?
16. Installed as total depth.
17. Measured total depth of well.

Yes	No	NA
		X
	X	

- General Condition**
18. Concrete pad installed?
19. Concrete pad
- Slope away from casing?
 - Not deteriorated?
 - Not heaved or below surrounding grade?
20. No surface seal settling?
21. Well clearly visible and labeled?

Yes	No	NA
	X	
		X
X		

Comments:

DTU: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: <u>Hennepin, IL</u>						Client: <u>Ramboll</u>					
Project Number: _____				Task #: _____		Start Date: <u>8/21/24</u>				Time: <u>1435</u>	
Field Personnel: <u>Allison Bell</u>				Finish Date: _____		Time: <u>1620</u>				_____	
WELL INFORMATION					EVENT TYPE						
Well ID: <u>08</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>1443</u>				<u>14.7</u>	<u>6.62</u>	<u>1.228</u>	<u>1.54</u>	<u>3.85</u>	<u>192.1</u>	<u>Clear</u>
	<u>1449</u>				<u>14.6</u>	<u>6.58</u>	<u>1.239</u>	<u>1.30</u>	<u>3.61</u>	<u>194.1</u>	↓
	<u>1453</u>	<u>2.5</u>			<u>14.7</u>	<u>6.69</u>	<u>1.22</u>	<u>3.53</u>	<u>188.9</u>		
	<u>1458</u>				<u>14.6</u>	<u>6.69</u>	<u>1.243</u>	<u>1.19</u>	<u>3.50</u>	<u>188.1</u>	
	<u>1503</u>				<u>14.6</u>	<u>6.72</u>	<u>1.244</u>	<u>1.17</u>	<u>3.49</u>	<u>188.6</u>	
	<u>1508</u>				<u>14.7</u>	<u>6.72</u>	<u>1.241</u>	<u>1.16</u>	<u>3.49</u>	<u>188.6</u>	
NOTES (continued)								ABBREVIATIONS			
<p><u>Samples taken @ 1510</u></p> <p><u>Ferrous iron sampled @ 1530: under range</u></p> <p><u>dupe @ 1510</u></p>								Cond - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius			

Monitoring Well Evaluation Checklist

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/24/23</u>			<input checked="" type="checkbox"/>	
Well Number <u>27</u>				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?	/			
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				
<u>All Monitoring Wells</u>				
Downhole Condition		Yes	No	NA
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?			↓	
14. No plant roots or vegetation in well?				
15. No sediment in bottom of well?			↓	
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
General Condition		Yes	No	NA
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: _____ Client: _____
 Project Number: _____ Task #: _____ Start Date: 8/24 Time: 0820
 Field Personnel: TRUMBAY Finish Date: _____ Time: 0921

WELL INFORMATION	EVENT TYPE
Well ID: <u>WEN 27</u> Casing ID: _____ inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0824 PURGE SAMPLE	0824 0824	0.1									CLEAR
	0828				12.9	7.21	0.819	0.50	13.75	0.1	
	0833	1			13.0	7.22	0.817	0.09	25.15	-20.3	
	0939				13.5	7.24	0.813	0.04	45.33	-29.8	
	0843				12.8	7.32	0.816	0.04	46.72	-31.5	
	0848	2.75			12.4	7.33	0.816	0.06	47.09	-32.9	
	0853	3.0			12.5	7.33	0.816	0.07	48.81	-33.7	
	0854										

NOTES (continued)	ABBREVIATIONS
<p><u>FLUNDER</u> <u>SAMPLE @ 0900</u></p>	Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23 @ 1200</u>			<input checked="" type="checkbox"/>	
Well Number <u>HEN-02</u>				

<u>Stick-up Monitoring Wells</u>				<u>Comments</u>
1. Outer protective Casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked				
Not loose				

2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked				
Not loose				
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
6. Is there a lock present?	↓			
7. Bumper posts in good condition?				

<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?				
12. Is there a lock present?			↓	

<u>All Monitoring Wells</u>				
Downhole Condition	Yes	No	NA	
12. Water level measuring point clearly marked?			<input checked="" type="checkbox"/>	
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?				
If present, how much sediment?				
16. Installed as total depth.				
17. Measured total depth of well.				47.10ft

<u>General Condition</u>				
18. Concrete pad installed?	<input checked="" type="checkbox"/>			
19. Concrete pad				
Slope away from casing?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Not deteriorated?		↓		
Not heaved or below surrounding grade?				
20. No surface seal settling?		<input checked="" type="checkbox"/>		
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			

Comments:
DTIN: 41.84ft pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION											
Site: <u>Hennepin, IL</u>						Client: <u>Ramboll</u>					
Project Number: _____				Task #: _____		Start Date: <u>8/24/2023</u>		Time: <u>1025</u>		Time: <u>1120</u>	
Field Personnel: <u>Allison Beckett</u>						Finish Date: _____					
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-02</u>				<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling					
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____					
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>103L</u>		<u>41.17</u>		<u>15.4</u>	<u>7.12</u>	<u>0.1079</u>	<u>5.70</u>	<u>5.80</u>	<u>156.5</u>	↓ Clean
	<u>1037</u>		<u>41.57</u>		<u>14.2</u>	<u>6.81</u>	<u>0.1087</u>	<u>0.63</u>	<u>5.08</u>	<u>172.7</u>	
	<u>104L</u>	<u>2.0</u>	<u>41.17</u>		<u>14.0</u>	<u>6.78</u>	<u>0.1085</u>	<u>0.38</u>	<u>5.12</u>	<u>174.3</u>	
	<u>1047</u>		<u>41.16</u>		<u>14.1</u>	<u>6.81</u>	<u>0.1084</u>	<u>0.31</u>	<u>4.31</u>	<u>172.3</u>	
	<u>1052</u>	<u>3.0</u>	<u>41.15</u>		<u>14.0</u>	<u>6.83</u>	<u>0.1084</u>	<u>0.27</u>	<u>3.99</u>	<u>170.8</u>	
	<u>1057</u>				<u>14.0</u>	<u>6.83</u>	<u>0.1086</u>	<u>0.27</u>	<u>4.17</u>	<u>170.1</u>	
	<u>1102</u>	<u>4.0</u>			<u>14.0</u>	<u>6.83</u>	<u>0.1085</u>	<u>0.24</u>	<u>3.85</u>	<u>1109.1</u>	
NOTES (continued)								ABBREVIATIONS			
<p style="font-size: 1.2em;">Samples taken @ 1105</p> <p style="font-size: 1.2em;">*NO FERROUS IRON SAMPLE*</p>								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius			

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u> Inspection Date <u>9/21/23 @ 1010</u> Well Number <u>HEN-XPW02-P04E</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
			<input checked="" type="checkbox"/>	
Stick-up Monitoring Wells				
1. Outer protective Casing Not corroded Not dented Not cracked Not loose	Yes	No	NA	Comments
		<input checked="" type="checkbox"/>		
		↓		
2. Inner casing Not corroded Not dented Not cracked Not loose	Yes	No	NA	
		<input checked="" type="checkbox"/>		
		↓		
3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition?	Yes	No	NA	
		<input checked="" type="checkbox"/>		
			<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>			
	↓			
Flushmount Monitoring Wells				
8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present?	Yes	No	NA	
			<input checked="" type="checkbox"/>	
			↓	
			↓	
			↓	
All Monitoring Wells				
Downhole Condition				
12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well.	Yes	No	NA	
			<input checked="" type="checkbox"/>	
		<input checked="" type="checkbox"/>		
		↓		
	→ ft			
	ft			
	19 ft			
General Condition				
18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled?	Yes	No	NA	
	<input checked="" type="checkbox"/>			
		<input checked="" type="checkbox"/>		
		↓		
	<input checked="" type="checkbox"/>			
Comments:				
<u>DTW: 14.39 ft</u>				

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: _____			Client: _____												
Project Number: _____				Task #: _____				Start Date: <u>8/24/23</u>		Time: <u>1252</u>					
Field Personnel: <u>TALBUN</u>				Finish Date: _____				Time: <u>1450</u>							
WELL INFORMATION					EVENT TYPE										
Well ID: <u>XPU02</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>PCE</u>	<u>1256</u>	<u>4</u>	<u>14.03</u>												
<u>PURGE</u>	<u>1304</u>	<u>0.1</u>	<u>14.19</u>	<u>-0.16</u>							<u>CLEAR</u>				
<u>SAMPLE</u>	<u>1308</u>	<u>1.0</u>	<u>14.58</u>	<u>-0.39</u>	<u>19.4</u>	<u>12.03</u>	<u>3.071</u>	<u>0.91</u>	<u>89.87</u>	<u>-116.0</u>					
	<u>1313</u>		<u>14.92</u>	<u>-0.36</u>	<u>19.2</u>	<u>12.13</u>	<u>3.111</u>	<u>0.21</u>	<u>59.77</u>	<u>-155.7</u>					
	<u>1318</u>		<u>15.0</u>	<u>-0.18</u>	<u>19.4</u>	<u>12.14</u>	<u>3.109</u>	<u>0.14</u>	<u>40.43</u>	<u>-165.2</u>					
	<u>1323</u>	<u>2.5</u>	<u>15.1</u>	<u>-0.1</u>	<u>19.3</u>	<u>12.16</u>	<u>3.129</u>	<u>0.10</u>	<u>28.61</u>	<u>-168.5</u>					
	<u>1328</u>		<u>15.13</u>	<u>-0.03</u>	<u>19.8</u>	<u>12.16</u>	<u>3.146</u>	<u>0.12</u>	<u>29.94</u>	<u>-157.5</u>					
	<u>1333</u>		<u>15.15</u>	<u>-0.02</u>	<u>19.7</u>	<u>12.17</u>	<u>3.163</u>	<u>0.12</u>	<u>22.84</u>	<u>-152.3</u>					
	<u>1338</u>	<u>3.25</u>	<u>15.15</u>	<u>0</u>	<u>19.7</u>	<u>12.17</u>	<u>3.191</u>	<u>0.12</u>	<u>23.05</u>	<u>-148.4</u>					
NOTES (continued)								ABBREVIATIONS							
<u>FI - 0.109</u> <u>Sample - 1345</u> <u>EB - 1345</u>								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			

Monitoring Well Evaluation Checklist

Site <u>Hennepin, IL</u> Inspection Date <u>8/21/23 @ 1005</u> Well Number <u>HenXPW01 - pore</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
			X	
Stick-up Monitoring Wells				
1. Outer protective Casing Not corroded Not dented Not cracked Not loose	Yes	No	NA	Comments
		X		
		↓		
		↓		
2. Inner casing Not corroded Not dented Not cracked Not loose	Yes	No	NA	
		X		
		↓		
		↓		
3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition?	Yes	No	NA	
		X		
			X	
	X			
	X			
	X			
Flushmount Monitoring Wells				
8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present?	Yes	No	NA	
			X	
			↓	
			↓	
			↓	
All Monitoring Wells				
Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well.	Yes	No	NA	
			X	
	X			
	X			
	X			
			17.13 ft	
General Condition				
18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled?	Yes	No	NA	
			X	
		↓		
		↓		
	X			
	X			
Comments:				
DTW: 9.45 ft Bottom of casing: 17.13 ft				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

PROJECT INFORMATION															
Site: _____						Client: _____									
Project Number: _____				Task #: _____				Start Date: <u>8/24/23</u>				Time: <u>1125</u>			
Field Personnel: <u>JKRangley</u>				Finish Date: _____				Time: <u>1230</u>							
WELL INFORMATION						EVENT TYPE									
Well ID: <u>XPW01</u>						<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches						<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>PPE</u>	<u>1125</u>		<u>9.45</u>												
<u>PURGE</u>	<u>1130</u>	<u>0.1</u>	<u>9.45</u>	<u>Ø</u>							<u>CLEAR</u>				
<u>SAMPLE</u>	<u>1135</u>	<u>0.25</u>	<u>9.45</u>	<u>Ø</u>	<u>19.5</u>	<u>11.30</u>	<u>0.783</u>	<u>0.37</u>	<u>9.22</u>	<u>-241.6</u>					
	<u>1140</u>		<u>9.45</u>	<u>Ø</u>	<u>19.5</u>	<u>11.31</u>	<u>0.795</u>	<u>0.22</u>	<u>10.51</u>	<u>-242.4</u>					
	<u>1145</u>	<u>1.0</u>	<u>9.45</u>	<u>Ø</u>	<u>16.8</u>	<u>11.33</u>	<u>0.801</u>	<u>0.17</u>	<u>13.54</u>	<u>-244.1</u>					
	<u>1150</u>		<u>9.45</u>	<u>Ø</u>	<u>19.0</u>	<u>11.33</u>	<u>0.804</u>	<u>0.11</u>	<u>12.05</u>	<u>-248.5</u>					
	<u>1155</u>		<u>9.45</u>	<u>Ø</u>	<u>19.2</u>	<u>11.34</u>	<u>0.808</u>	<u>0.11</u>	<u>21.53</u>	<u>-259.5</u>					
	<u>1200</u>	<u>2.25</u>	<u>9.45</u>	<u>Ø</u>	<u>17.6</u>	<u>11.39</u>	<u>0.815</u>	<u>0.11</u>	<u>54.09</u>	<u>-271.7</u>					
	<u>1205</u>		<u>9.45</u>	<u>Ø</u>	<u>17.7</u>	<u>11.39</u>	<u>0.817</u>	<u>0.10</u>	<u>57.11</u>	<u>-273.6</u>					
	<u>1210</u>	<u>3.5</u>	<u>9.45</u>	<u>Ø</u>	<u>17.7</u>	<u>11.39</u>	<u>0.818</u>	<u>0.10</u>	<u>55.97</u>	<u>-279.1</u>					
NOTES (continued)								ABBREVIATIONS							
<p><u>Sample @ 1215</u> <u>FT - UNDER</u> <u>EQUIPMENT BANK @ 1215</u></p>								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			

Monitoring Well Evaluation Checklist

Site Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/21/23 @ 1020			X	
Well Number HEN-XPW03-P09E				

	Yes	No	NA	
Stick-up Monitoring Wells				
1. Outer protective Casing				Comments
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing				
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?	↓			
Flushmount Monitoring Wells				
8. Can the lid be secured tightly?			X	
9. Does the lid have a gasket that seals?			↓	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	
All Monitoring Wells				
Downhole Condition				
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?	—	ft		
16. Installed as total depth.		ft		
17. Measured total depth of well.		19.11	ft	
General Condition				
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		↓		
Not heaved or below surrounding grade?		↓		
20. No surface seal settling?		↓		
21. Well clearly visible and labeled?	X			
Comments:	DTW: 9.86 ft			

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: _____				Client: _____											
Project Number: _____				Task #: _____				Start Date: <u>8/24/23</u>		Time: <u>1455</u>					
Field Personnel: <u>_____</u>				Finish Date: _____				Time: _____							
WELL INFORMATION				EVENT TYPE											
Well ID: <u>XPW03</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
<u>PRE</u>	<u>1457</u>		<u>4.86</u>												
	<u>1500</u>	<u>1.0</u>	<u>5.16</u>	<u>-0.3</u>	<u>16.7</u>	<u>11.71</u>	<u>1.41</u>	<u>0.82</u>	<u>5</u>						
	<u>1506</u>		<u>5.16</u>	<u>Ø</u>	<u>16.7</u>	<u>11.71</u>	<u>1.141</u>	<u>0.82</u>	<u>5.92</u>	<u>-3.2</u>					
	<u>1511</u>		<u>5.16</u>	<u>Ø</u>	<u>16.6</u>	<u>11.79</u>	<u>1.144</u>	<u>0.11</u>	<u>13.62</u>	<u>-22.1</u>					
	<u>1516</u>	<u>2</u>	<u>5.16</u>	<u>Ø</u>	<u>16.7</u>	<u>11.79</u>	<u>1.146</u>	<u>0.11</u>	<u>9.31</u>	<u>-30.8</u>					
	<u>1521</u>		<u>5.16</u>	<u>Ø</u>	<u>16.8</u>	<u>11.78</u>	<u>1.149</u>	<u>0.10</u>	<u>9.28</u>	<u>-37.3</u>					
	<u>1526</u>	<u>2.5</u>	<u>5.16</u>	<u>Ø</u>	<u>16.7</u>	<u>11.79</u>	<u>1.149</u>	<u>0.11</u>	<u>9.97</u>	<u>-41.9</u>					
	<u>1531</u>														
	<u>1536</u>														
NOTES (continued)								ABBREVIATIONS							
<u>FE UNDER</u> <u>SAMPLE - 1530</u> <u>EB -</u>								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			

Site Hennepin Major wells repairs* required to maintain well integrity? Yes No NA
 Inspection Date 8/21/23 @ 0955
 Well Number 10

Stick-up Monitoring Wells **Comments**

	Yes	No	NA	
1. Outer protective Casing				
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		

	Yes	No	NA	
2. Inner casing				
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		
3. Are there weep holes in outer casing?		X		
4. Weep holes able to drain?			X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			

Flushmount Monitoring Wells

	Yes	No	NA	
8. Can the lid be secured tightly?	X		X	
9. Does the lid have a gasket that seals?			X	
10. No water in the flushmount?			X	
11. Is the well cap lockable?			X	
12. Is there a lock present?			X	

All Monitoring Wells

Downhole Condition

	Yes	No	NA	
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		X		
If present, how much sediment?	— ft			
16. Installed as total depth.	— ft			
17. Measured total depth of well.	48.65 ft			

General Condition

	Yes	No	NA	
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			

Comments: DTW: 48.28 ft Bottom of casing/top of pump 48.65

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 0810
 Field Personnel: Allison Beckwith Finish Date: _____ Time: 0900

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-10</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	0810		48.15		22.8	7.15	0.1019	1.52	4.08	138.0	Clear
	0821		48.12		23.1	7.06	0.022	0.73	4.50	144.0	
	0826	2.0	48.12		23.1	7.05	0.024	0.57	7.00	144.2	
	0831		48.12		23.1	7.04	0.025	0.55	10.15	142.8	
	0836	3.0	48.11		23.2	7.04	0.025	0.53	4.50	141.8	
2.5	0841	3.5	48.11		23.2	7.04	0.025	0.52	3.90	140.9	↓

NOTES (continued)	ABBREVIATIONS
Samples taken @ 0845 *NO FERROUS IRON SAMPLE*	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

Site <u>Hennepin, IL</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/21/23 @ 0930</u>			<input checked="" type="checkbox"/>	
Well Number <u>50</u>				

	Yes	No	NA		
Stick-up Monitoring Wells					
1. Outer protective Casing				Comments	
Not corroded		<input checked="" type="checkbox"/>			
Not dented		<input checked="" type="checkbox"/>			
Not cracked		<input checked="" type="checkbox"/>			
Not loose		<input checked="" type="checkbox"/>			
2. Inner casing					
Not corroded		<input checked="" type="checkbox"/>			
Not dented		<input checked="" type="checkbox"/>			
Not cracked		<input checked="" type="checkbox"/>			
Not loose		<input checked="" type="checkbox"/>			
3. Are there weep holes in outer casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. Weep holes able to drain?		<input checked="" type="checkbox"/>			
5. Is there a lockable cap present?		<input checked="" type="checkbox"/>			
6. Is there a lock present?		<input checked="" type="checkbox"/>			
7. Bumper posts in good condition?		<input checked="" type="checkbox"/>			
Flushmount Monitoring Wells					
8. Can the lid be secured tightly?			<input checked="" type="checkbox"/>		
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>		
10. No water in the flushmount?			<input checked="" type="checkbox"/>		
11. Is the well cap lockable?			<input checked="" type="checkbox"/>		
12. Is there a lock present?			<input checked="" type="checkbox"/>		
All Monitoring Wells					
Downhole Condition					
12. Water level measuring point clearly marked?			<input checked="" type="checkbox"/>		
13. No obstructions in well?		<input checked="" type="checkbox"/>			
14. No plant roots or vegetation in well?		<input checked="" type="checkbox"/>			
15. No sediment in bottom of well?		<input checked="" type="checkbox"/>			
If present, how much sediment?	ft				
16. Installed as total depth.	ft				
17. Measured total depth of well.	ft				
General Condition					
18. Concrete pad installed?	<input checked="" type="checkbox"/>				
19. Concrete pad	<input checked="" type="checkbox"/>				
Slope away from casing?		<input checked="" type="checkbox"/>			
Not deteriorated?		<input checked="" type="checkbox"/>			
Not heaved or below surrounding grade?		<input checked="" type="checkbox"/>			
20. No surface seal settling?	<input checked="" type="checkbox"/>				
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>				
Comments:					

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION			
Site: <u>Hennepin, IL</u>	Client: <u>Ramboll</u>		
Project Number: _____	Task #: _____	Start Date: <u>8/25/23</u>	Time: <u>10:55</u>
Field Personnel: <u>Alison Beckwith</u>		Finish Date: _____	Time: <u>12:00</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-50</u>	<input type="checkbox"/> Well Development
Casing ID: <u>2</u> inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
10	1058				10.8	7.53	0.004	0.01	304.79	81.2	clear
11	1103				10.7	7.50	0.003	0.59	384.4	112.5	↓
11	1108	2.0			10.8	7.49	0.004	0.17	4.33	109.3	↓
11	1113				10.9	7.49	0.005	0.14	4.31	98.5	↓
11	1118	4.0			10.7	7.43	0.005	0.12	4.00	87.2	↓
11	1123				10.7	7.47	0.005	0.12	3.98	88.0	↓

NOTES (continued)	ABBREVIATIONS
<p>Samples taken @ 1125</p> <p>Ferrous iron sample @ 1140: under range</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential</p> <p>FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance</p> <p>na - Not Applicable SU - Standard Units</p> <p>nm - Not Measured Temp - Temperature</p> <p> °C - Degrees Celsius</p>

Monitoring Well Evaluation Checklist

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 2/25/23			X	
Well Number HEN 34				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose				
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			
<u>Flushmount Monitoring Wells</u>		Yes No NA		
8. Can the lid be secured tightly?	Yes No NA			
9. Does the lid have a gasket that seals?	Yes No NA			
10. No water in the flushmount?	Yes No NA			
11. Is the well cap lockable?	Yes No NA			
12. Is there a lock present?	Yes No NA			
<u>All Monitoring Wells</u>		Yes No NA		
<u>Downhole Condition</u>		Yes	No	NA
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?			X	
14. No plant roots or vegetation in well?			X	
15. No sediment in bottom of well?			X	
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
<u>General Condition</u>		Yes	No	NA
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

PROJECT INFORMATION											
Site: _____				Client: _____							
Project Number: _____				Task #: _____				Start Date: <u>8/25/23</u>		Time: <u>1053</u>	
Field Personnel: <u>TREMBLAY</u>				Finish Date: _____				Time: <u>1145</u>			
WELL INFORMATION					EVENT TYPE						
Well ID: <u>HCN 34</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>Purge</u>	<u>1055</u>	<u>0.1</u>			<u>13.2</u>	<u>7.21</u>	<u>0.948</u>	<u>2.06</u>	<u>14.02</u>	<u>-116.2</u>	<u>CLEAR</u>
	<u>1100</u>				<u>13.7</u>	<u>7.21</u>	<u>0.948</u>	<u>2.06</u>	<u>14.02</u>	<u>-116.2</u>	<u>CLEAR</u>
	<u>1105</u>				<u>12.8</u>	<u>7.09</u>	<u>0.966</u>	<u>0.25</u>	<u>7.80</u>	<u>-108.6</u>	↓
	<u>1110</u>	<u>2.5</u>			<u>12.8</u>	<u>7.08</u>	<u>0.969</u>	<u>0.21</u>	<u>6.54</u>	<u>-110.4</u>	
	<u>1115</u>				<u>12.7</u>	<u>7.08</u>	<u>0.971</u>	<u>0.22</u>	<u>5.51</u>	<u>-111.2</u>	
	<u>1120</u>				<u>12.8</u>	<u>7.08</u>	<u>0.972</u>	<u>0.20</u>	<u>4.81</u>	<u>-110.7</u>	
	<u>1125</u>										
	<u>1130</u>										
NOTES (continued)								ABBREVIATIONS			
<u>F1 - UNDER</u> <u>SAMPLE @ 1125</u>								Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured			
								ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>2/25/23</u>			<input checked="" type="checkbox"/>	
Well Number <u>HEN 49</u>				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X	X	
5. Is there a lockable cap present?	X			
6. Is there a lock present?	X			
7. Bumper posts in good condition?	X			
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				
<u>All Monitoring Wells</u>				
<u>Downhole Condition</u>		Yes	No	NA
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?			X	
14. No plant roots or vegetation in well?			X	
15. No sediment in bottom of well?			X	
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
<u>General Condition</u>		Yes	No	NA
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				
<u>BATTERY WAS REPLACED + WOULD NOT CONNECT. WELL WAS GAUGED MANUALLY</u>				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/25/23 Time: 0925
 Field Personnel: Allison Bilwell Finish Date: _____ Time: 1055

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-49</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
09	1032		19.65		15.5	7.2	0.700	1.40	72.1	-1.5	Clear
09	1037		19.65		15.3	7.13	0.698	0.22	92.38	38.0	Brown & Murky
09	1042	2.0	19.65		15.4	7.12	0.1298	0.17	110.79	48.6	↓
09	1047		19.64		15.4	7.12	0.1098	0.15	122.4	57.7	
09	1052		19.65		15.4	7.12	0.607	0.13	121.9	58.8	
09	1057	5.0	19.64		16.4	7.12	0.6098	0.12	122.9	59.1	
10	1102		19.65		15.3	7.12	0.6098	0.11	123.6	58.2	↓

NOTES (continued)	ABBREVIATIONS
Sample taken @ 1005 Ferrous iron sample @ 1030: underrange	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

Monitoring Well Evaluation Checklist

Site <u>HENNEPIN 2</u>	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/28/23 0815</u>			<input checked="" type="checkbox"/>	
Well Number <u>HEN-10</u>				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		<input checked="" type="checkbox"/>		
Not dented		↓		
Not cracked		↓		
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		<input checked="" type="checkbox"/>		
5. Is there a lockable cap present?			<input checked="" type="checkbox"/>	
6. Is there a lock present?	<input checked="" type="checkbox"/>			
7. Bumper posts in good condition?	↓			
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?			<input checked="" type="checkbox"/>	
10. No water in the flushmount?			↓	
11. Is the well cap lockable?			↓	
12. Is there a lock present?			↓	
<u>All Monitoring Wells</u>				
<u>Downhole Condition</u>		Yes	No	NA
12. Water level measuring point clearly marked?	_____			
13. No obstructions in well?		<input checked="" type="checkbox"/>		
14. No plant roots or vegetation in well?		↓		
15. No sediment in bottom of well?		↓		
If present, how much sediment?	_____ ft			
16. Installed as total depth.	_____ ft			
17. Measured total depth of well.	_____ ft			
<u>General Condition</u>		Yes	No	NA
18. Concrete pad installed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
19. Concrete pad	_____			
Slope away from casing?			<input checked="" type="checkbox"/>	
Not deteriorated?			↓	
Not heaved or below surrounding grade?			↓	
20. No surface seal settling?			↓	
21. Well clearly visible and labeled?	<input checked="" type="checkbox"/>			
Comments:				
<u>DTW: 53.90, dead batteries/transducer is fried</u>				

* Major well repair are those that require a subcontractor or separate mobilization to complete

fried

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/28/23 Time: 0800
 Field Personnel: Allison Beckert Finish Date: _____ Time: 0905

WELL INFORMATION	EVENT TYPE
Well ID: <u>HEN-10</u> Casing ID: <u>2</u> inches	<input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	<u>0808</u>		<u>53.90</u>		<u>19.7</u>	<u>7.47</u>	<u>0.550</u>	<u>8.13</u>	<u>4.40</u>	<u>114.5</u>	↓ clear
	<u>0813</u>		<u>53.90</u>		<u>22.5</u>	<u>7.23</u>	<u>0.553</u>	<u>1.41</u>	<u>3.88</u>	<u>131.4</u>	
	<u>0818</u>		<u>53.90</u>		<u>22.7</u>	<u>7.23</u>	<u>0.554</u>	<u>1.21</u>	<u>3.92</u>	<u>131.1</u>	
	<u>0823</u>	<u>1.0</u>	<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.53</u>	<u>3.85</u>	<u>126.8</u>	
	<u>0828</u>		<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.41</u>	<u>3.89</u>	<u>123.5</u>	
	<u>0833</u>	<u>2.0</u>	<u>53.90</u>		<u>22.8</u>	<u>7.23</u>	<u>0.556</u>	<u>0.37</u>	<u>3.99</u>	<u>122.7</u>	

NOTES (continued)	ABBREVIATIONS
<p><u>Samples taken @ 0835</u></p> <p><u>Ferrrous iron sample @ 0850: Under range</u></p>	<p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius</p>

Monitoring Well Evaluation Checklist

<p>Site <u>Hennepin, IL</u></p> <p>Inspection Date <u>8/28/23 @ 0915</u></p> <p>Well Number <u>HEN-17</u></p>	<p>Major wells repairs* required to maintain well integrity?</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>Stick-up Monitoring Wells</p>														
<p>1. Outer protective Casing</p> <p>Not corroded</p> <p>Not dented</p> <p>Not cracked</p> <p>Not loose</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X			↓			↓		<p style="text-align: center;">Comments</p>
Yes	No	NA												
	X													
	↓													
	↓													
<p>2. Inner casing</p> <p>Not corroded</p> <p>Not dented</p> <p>Not cracked</p> <p>Not loose</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> </table>	Yes	No	NA		X			↓			↓		
Yes	No	NA												
	X													
	↓													
	↓													
<p>3. Are there weep holes in outer casing?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>4. Weep holes able to drain?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> </table>	Yes	No	NA			X							
Yes	No	NA												
		X												
<p>5. Is there a lockable cap present?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>6. Is there a lock present?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>7. Bumper posts in good condition?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>Flushmount Monitoring Wells</p>														
<p>8. Can the lid be secured tightly?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table>	Yes	No	NA			X			↓			↓	
Yes	No	NA												
		X												
		↓												
		↓												
<p>9. Does the lid have a gasket that seals?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table>	Yes	No	NA			X			↓			↓	
Yes	No	NA												
		X												
		↓												
		↓												
<p>10. No water in the flushmount?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table>	Yes	No	NA			X			↓			↓	
Yes	No	NA												
		X												
		↓												
		↓												
<p>11. Is the well cap lockable?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table>	Yes	No	NA			X			↓			↓	
Yes	No	NA												
		X												
		↓												
		↓												
<p>12. Is there a lock present?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table>	Yes	No	NA			X			↓			↓	
Yes	No	NA												
		X												
		↓												
		↓												
<p>All Monitoring Wells</p>														
<p>Downhole Condition</p> <p>12. Water level measuring point clearly marked?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> </table>	Yes	No	NA			X	<p style="text-align: center;">Comments</p>						
Yes	No	NA												
		X												
<p>13. No obstructions in well?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>14. No plant roots or vegetation in well?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>15. No sediment in bottom of well? If present, how much sediment?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>16. Installed as total depth.</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> </table>	Yes	No	NA			X							
Yes	No	NA												
		X												
<p>17. Measured total depth of well.</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> </table>	Yes	No	NA			X							
Yes	No	NA												
		X												
<p>General Condition</p>														
<p>18. Concrete pad installed?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X			<p style="text-align: center;">Comments</p>						
Yes	No	NA												
X														
<p>19. Concrete pad</p> <p>Slope away from casing?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>Not deteriorated?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>Not heaved or below surrounding grade?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>20. No surface seal settling?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table>	Yes	No	NA		X								
Yes	No	NA												
	X													
<p>21. Well clearly visible and labeled?</p>	<table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table>	Yes	No	NA	X									
Yes	No	NA												
X														
<p>Comments:</p> <p style="text-align: center; font-size: 1.5em; margin-top: 20px;">DTW: on app</p>														
<p>* Major well repair are those that require a subcontractor or separate mobilization to complete</p>														

Monitoring Well Evaluation Checklist

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date <u>8/28</u>			X	
Well Number <u>032</u>				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		X		
Not cracked		X		
Not loose		X		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?	X		NA	
5. Is there a lockable cap present?	X		NA	
6. Is there a lock present?	X		NA	
7. Bumper posts in good condition?	X		NA	
<u>Flushmount Monitoring Wells</u>		Yes	No	NA
8. Can the lid be secured tightly?		/		
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				
<u>All Monitoring Wells</u>		Yes	No	NA
Downhole Condition				
12. Water level measuring point clearly marked?		X		
13. No obstructions in well?		X		
14. No plant roots or vegetation in well?		X		
15. No sediment in bottom of well?		X		
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
General Condition		Yes	No	NA
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				
* Major well repair are those that require a subcontractor or separate mobilization to complete				

PROJECT INFORMATION											
Site: _____			Client: _____			Project Number: _____			Task #: _____		
Field Personnel: <u>TREMBLAY</u>			Start Date: <u>8/28</u>			Time: <u>0906</u>			Finish Date: _____		
Field Personnel: _____			Time: <u>121</u>			Finish Date: _____			Time: _____		
WELL INFORMATION					EVENT TYPE						
Well ID: <u>03R</u>					<input type="checkbox"/> Well Development		<input type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>Purge</u>	<u>0915</u>	<u>0.1</u>							10.85	137.8	<u>Clear</u>
<u>Sample</u>	<u>0920</u>				<u>16.2</u>	<u>7.22</u>	<u>0.655</u>	<u>0.81</u>	<u>10.85</u>	<u>137.8</u>	<u>1</u>
	<u>0925</u>	<u>1.0</u>			<u>18.2</u>	<u>7.21</u>	<u>0.653</u>	<u>0.32</u>	<u>5.46</u>	<u>137.8</u>	
	<u>0930</u>				<u>14.2</u>	<u>7.21</u>	<u>0.653</u>	<u>0.22</u>	<u>3.81</u>	<u>132.9</u>	
	<u>0935</u>				<u>18.3</u>	<u>7.21</u>	<u>0.653</u>	<u>0.22</u>	<u>2.99</u>	<u>129.4</u>	
	<u>0940</u>	<u>2.25</u>			<u>14.3</u>	<u>7.20</u>	<u>0.652</u>	<u>0.21</u>	<u>2.54</u>	<u>126.9</u>	
	<u>0945</u>										
	<u>0950</u>										
	<u>0955</u>										
NOTES (continued)								ABBREVIATIONS			
<u>FI - UNDER</u> <u>SMA @ 0945</u>								Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured			
								ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius			

Site	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date 8/28/23			X	
Well Number 185				
<u>Stick-up Monitoring Wells</u>		<u>Comments</u>		
1. Outer protective Casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
2. Inner casing	Yes	No	NA	
Not corroded		X		
Not dented		↓		
Not cracked				
Not loose		↓		
3. Are there weep holes in outer casing?	Yes	No	NA	
4. Weep holes able to drain?		X		
5. Is there a lockable cap present?	X			
6. Is there a lock present?	↓			
7. Bumper posts in good condition?				
<u>Flushmount Monitoring Wells</u>				
8. Can the lid be secured tightly?	Yes	No	NA	
9. Does the lid have a gasket that seals?				
10. No water in the flushmount?				
11. Is the well cap lockable?				
12. Is there a lock present?				
<u>All Monitoring Wells</u>				
<u>Downhole Condition</u>		Yes	No	NA
12. Water level measuring point clearly marked?			X	
13. No obstructions in well?			X	
14. No plant roots or vegetation in well?			X	
15. No sediment in bottom of well?			X	
If present, how much sediment?	ft			
16. Installed as total depth.	ft			
17. Measured total depth of well.	ft			
<u>General Condition</u>		Yes	No	NA
18. Concrete pad installed?	X			
19. Concrete pad				
Slope away from casing?		X		
Not deteriorated?		X		
Not heaved or below surrounding grade?		X		
20. No surface seal settling?		X		
21. Well clearly visible and labeled?	X			
Comments:				

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

Site	Hennepin, IL	Major wells repairs* required to maintain well integrity?	Yes	No	NA
Inspection Date	8/21/23 @ 1125			X	
Well Number	HEN-455				

Stick-up Monitoring Wells

- Outer protective Casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
- Inner casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
- Are there weep holes in outer casing?
- Weep holes able to drain?
- Is there a lockable cap present?
- Is there a lock present?
- Bumper posts in good condition?

Yes	No	NA
	X	NA
	↓	NA
	↓	NA
	↓	NA
Yes	No	NA
	X	
	↓	
	↓	
Yes	No	NA
	X	
		X
X		
↓		

Comments

Flushmount Monitoring Wells

- Can the lid be secured tightly?
- Does the lid have a gasket that seals?
- No water in the flushmount?
- Is the well cap lockable?
- Is there a lock present?

Yes	No	NA
		X
		↓
		↓

All Monitoring Wells

- Downhole Condition**
- Water level measuring point clearly marked?
 - No obstructions in well?
 - No plant roots or vegetation in well?
 - No sediment in bottom of well?
If present, how much sediment?
 - Installed as total depth.
 - Measured total depth of well.

Yes	No	NA
		X
	X	
	↓	
	↓	
-	ft	
	ft	
30.19	ft	

General Condition

- Concrete pad installed?
- Concrete pad
 - Slope away from casing?
 - Not deteriorated?
 - Not heaved or below surrounding grade?
- No surface seal settling?
- Well clearly visible and labeled?

Yes	No	NA
X		
	X	
	↓	
	↓	
X		

Comments:

DTW: 18.78 p/m installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION															
Site: <u>Hennepin, IL</u>						Client: <u>Ramboll</u>									
Project Number: _____				Task #: _____		Start Date: <u>8/28/23</u>				Time: <u>1040</u>					
Field Personnel: <u>Allison Beckwith</u>				Finish Date: _____		Time: <u>1140</u>				Time: _____					
WELL INFORMATION				EVENT TYPE											
Well ID: <u>HEN-455</u>				<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling									
Casing ID: <u>2</u> inches				<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____									
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
	<u>1044</u>		<u>18.98</u>		<u>19.3</u>	<u>7.32</u>	<u>0.700</u>	<u>3.27</u>	<u>9.13</u>	<u>57.9</u>	<u>clear</u>				
	<u>1049</u>		<u>18.97</u>		<u>19.1</u>	<u>7.17</u>	<u>0.041</u>	<u>0.25</u>	<u>148.24</u>	<u>108.9</u>	<u>Brown/mucky</u>				
	<u>1054</u>	<u>2.5</u>	<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.72</u>	<u>130.10</u>	<u>111.7</u>	↓				
	<u>1059</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.19</u>	<u>89.9</u>	<u>110.1</u>					
	<u>1104</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.18</u>	<u>107.30</u>	<u>118.0</u>					
	<u>1109</u>	<u>5.0</u>	<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.17</u>	<u>54.30</u>	<u>119.2</u>					
	<u>1114</u>		<u>18.98</u>		<u>19.1</u>	<u>7.10</u>	<u>0.040</u>	<u>0.17</u>	<u>55.00</u>	<u>120.2</u>					
NOTES (continued)								ABBREVIATIONS							
<p>Samples taken @ 1115 1115</p> <p>Ferrous iron sample @ 1130: under range</p>								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			

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	18	100	All ND - Last	0.003	0.001
12	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.001	0.001
12	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0514	0.212
12	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.001
12	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	26	0	CB around T-S line	0.0751	0.163
12	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	90	CI around median	0.001	0.00230
12	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	70.2	435
12	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	23	97	CB around T-S line	0.00148	0.00100
12	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	82	Most recent sample	0.001	0.0380
12	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.24	0.120
12	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.0005	0.00150
12	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	22	4	CB around linear reg	0.00613	0.0190
12	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.0002
12	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	0	CB around linear reg	0.012	0.00170
12	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	33	0	CB around linear reg	7.1/7.3	6.6/7.5
12	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.331	2.00
12	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	25	56	CI around median	0.001	0.00140
12	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	63.8	215
12	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.001
12	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	460	1,620
13	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	18	96	CI around median	0.001	0.001
13	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	97	CI around median	0.001	0.001
13	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0427	0.212
13	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.001
13	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	0.589	0.163
13	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	97	CI around median	0.001	0.00230
13	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	73.5	435

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	23	85	CB around T-S line	0.0015	0.00100
13	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	82	Most recent sample	0.001	0.0380
13	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.2	0.120
13	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	23	97	CI around median	0.001	0.00150
13	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	0.0171	0.0190
13	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.0002
13	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	28	CI around mean	0.015	0.00170
13	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	33	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.476	2.00
13	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	25	42	CI around mean	0.00135	0.00140
13	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	26	0	CI around mean	77.2	215
13	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.001
13	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	478	1,620
46	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.001
46	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.001	0.001
46	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0642	0.212
46	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.001
46	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	0.197	0.163
46	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.00230
46	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	69.8	435
46	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	19	90	CB around T-S line	0.00149	0.00100
46	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.001	0.0380
46	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CI around median	0.24	0.120
46	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.00150
46	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	21	5	CI around median	0.009	0.0190
46	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.0002
46	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around T-S line	0.00879	0.00170

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	22	0	CB around linear reg	7.0/7.3	6.6/7.5
46	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.295	2.00
46	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	21	57	CI around median	0.001	0.00140
46	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	22	0	CI around geomean	62	215
46	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.001
46	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	440	1,620
47	UA	E002	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.001
47	UA	E002	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	95	CI around median	0.001	0.001
47	UA	E002	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.0777	0.212
47	UA	E002	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.001
47	UA	E002	Boron, total	mg/L	12/09/15 - 08/23/23	22	0	CI around geomean	0.206	0.163
47	UA	E002	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.00230
47	UA	E002	Chloride, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	73.5	435
47	UA	E002	Chromium, total	mg/L	12/09/15 - 08/23/23	19	95	CB around T-S line	0.001	0.00100
47	UA	E002	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	80	CI around median	0.001	0.0380
47	UA	E002	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CB around T-S line	0.21	0.120
47	UA	E002	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.00150
47	UA	E002	Lithium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.0087	0.0190
47	UA	E002	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.0002
47	UA	E002	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0132	0.00170
47	UA	E002	pH (field)	SU	12/09/15 - 08/23/23	22	0	CI around mean	7.0/7.2	6.6/7.5
47	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.358	2.00
47	UA	E002	Selenium, total	mg/L	12/09/15 - 08/23/23	20	90	CI around median	0.001	0.00140
47	UA	E002	Sulfate, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	63.5	215
47	UA	E002	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.001
47	UA	E002	Total Dissolved Solids	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	472	1,620
52	UA	E002	Antimony, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.003	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E002	Arsenic, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.001
52	UA	E002	Barium, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0704	0.212
52	UA	E002	Beryllium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.001
52	UA	E002	Boron, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.126	0.163
52	UA	E002	Cadmium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.00230
52	UA	E002	Chloride, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	71.3	435
52	UA	E002	Chromium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.005	0.00100
52	UA	E002	Cobalt, total	mg/L	02/24/21 - 08/24/23	11	91	Most recent sample	0.001	0.0380
52	UA	E002	Fluoride, total	mg/L	02/24/21 - 08/24/23	11	9	CI around geomean	0.27	0.120
52	UA	E002	Lead, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.00150
52	UA	E002	Lithium, total	mg/L	02/24/21 - 08/24/23	11	9	CI around mean	0.00532	0.0190
52	UA	E002	Mercury, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0002	0.0002
52	UA	E002	Molybdenum, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0102	0.00170
52	UA	E002	pH (field)	SU	02/24/21 - 08/24/23	11	0	CI around mean	7.0/7.4	6.6/7.5
52	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/24/23	11	0	CI around mean	0.36	2.00
52	UA	E002	Selenium, total	mg/L	02/24/21 - 08/24/23	11	91	CI around median	0.001	0.00140
52	UA	E002	Sulfate, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	58.3	215
52	UA	E002	Thallium, total	mg/L	02/24/21 - 08/24/23	11	91	CI around median	0.002	0.001
52	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 08/24/23	10	0	CI around mean	427	1,620
54	UA	E002	Antimony, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.003	0.001
54	UA	E002	Arsenic, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.001
54	UA	E002	Barium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.0388	0.212
54	UA	E002	Beryllium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.001
54	UA	E002	Boron, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	0.501	0.163
54	UA	E002	Cadmium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.00230
54	UA	E002	Chloride, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	80.3	435
54	UA	E002	Chromium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.005	0.00100

**ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023**

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E002	Cobalt, total	mg/L	02/24/21 - 08/23/23	11	82	CI around median	0.001	0.0380
54	UA	E002	Fluoride, total	mg/L	02/24/21 - 08/23/23	11	9	CI around mean	0.284	0.120
54	UA	E002	Lead, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.00150
54	UA	E002	Lithium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.00769	0.0190
54	UA	E002	Mercury, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0002	0.0002
54	UA	E002	Molybdenum, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	0.0199	0.00170
54	UA	E002	pH (field)	SU	02/24/21 - 08/23/23	11	0	CI around mean	6.9/7.4	6.6/7.5
54	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/23/23	11	0	CI around mean	0.094	2.00
54	UA	E002	Selenium, total	mg/L	02/24/21 - 08/23/23	11	46	CI around mean	0.00104	0.00140
54	UA	E002	Sulfate, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	75.7	215
54	UA	E002	Thallium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.002	0.001
54	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 08/23/23	9	0	CI around mean	488	1,620

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

For pH, the values presented are the lower / upper limits of the background determination