

Prepared for

Dynegy Midwest Generation, LLC

Date

January 31, 2021

Project No.

1940074919

2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

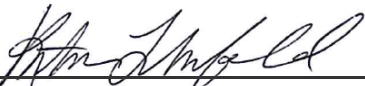
HENNEPIN ASH POND NO. 2, HENNEPIN POWER STATION

**2020 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
HENNEPIN ASH POND NO. 2, HENNEPIN POWER STATION**

Project name **Hennepin Power Station**
Project no. **1940074919**
Recipient **Dynegy Midwest Generation, LLC**
Document type **Annual Groundwater Monitoring and Corrective Action Report**
Version **FINAL**
Date **January 31, 2021**
Prepared by **Kristen L. Theesfeld**
Checked by **Eric J. Tlachac, PE**
Approved by **Lauren D. Cook**
Description **Annual Report in Support of the CCR Rule Groundwater Monitoring Program**

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
<https://ramboll.com>



Kristen L. Theesfeld
Hydrogeologist



Eric J. Tlachac, PE
Managing Engineer

CONTENTS

EXECUTIVE SUMMARY	3
1. Introduction	4
2. Monitoring and Corrective Action Program Status	6
3. Key Actions Completed in 2020	7
4. Problems Encountered and Actions to Resolved the Problems	9
5. Key Activities Planned for 2021	10
6. References	11

TABLES (IN TEXT)

Table A	2019-2020 Assessment Monitoring Program Summary
---------	---

TABLES (ATTACHED)

Table 1	Analytical Results - Groundwater Elevation and Appendix III Parameters
Table 2	Analytical Results - Appendix IV Parameters
Table 3	Statistical Background Values
Table 4	Groundwater Protection Standards

FIGURES

Figure 1	Monitoring Well Location Map
----------	------------------------------

ACRONYMS AND ABBREVIATIONS

40 C.F.R.	Title 40 of the Code of Federal Regulations
AP2	Ash Pond No. 2
CCR	Coal Combustion Residuals
CMA	Corrective Measures Assessment
GWPS	Groundwater Protection Standard
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
USEPA	United States Environmental Protection Agency

Hennepin

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.90(e) for the Hennepin Ash Pond No. 2 (AP2) located at Hennepin Power Station near Hennepin, Illinois.

Groundwater is being monitored at Hennepin AP2 in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment Monitoring was initiated at Hennepin AP2 on April 9, 2018.

No changes were made to the monitoring system in 2020.

The following Statistically Significant Levels (SSLs) of 40 C.F.R. Part 257 Appendix IV parameters were determined in 2020:

- Lithium at well 18S
- Molybdenum at wells 03R and 18S

As required by 40 C.F.R. § 257.95(g)(3)(i), a Corrective Measures Assessment (CMA) following the requirements of 40 C.F.R. § 257.96 was initiated on April 8, 2019 and completed on September 5, 2019 (OBG, 2019).

A public meeting was held on December 17, 2019 at St. Margaret's Hospital Presentation Room in Spring Valley, Illinois to discuss the results of the of the CMA in accordance with 40 C.F.R. § 257.96(e).

Remedy selection is in progress and the associated semiannual reports required by 40 C.F.R. § 257.97(a) are being completed.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions Inc. (Ramboll) on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for AP2 located at Hennepin Power Station near Hennepin, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a Coal Combustion Residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring Programs.
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring in addition to identifying the constituent(s) detected at a Statistically Significant Increase [SSI] relative to background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - i. At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.
 - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.
 - iii. If it was determined that there was a SSI over background for one or more constituents listed in Appendix III of §257 pursuant to §257.94(e):
 - A. Identify those constituents listed in Appendix III of §257 and the names of the monitoring wells associated with the SSI(s).

- B. Provide the date when the assessment monitoring program was initiated for the CCR unit.
- iv. If it was determined that there was a SSL above the Groundwater Protection Standard (GWPS) for one or more constituents listed in Appendix IV of §257 pursuant to §257.95(g) include all of the following:
 - A. Identify those constituents listed in Appendix IV of §257 and the names of the monitoring wells associated with the SSL(s).
 - B. Provide the date when the CMA was initiated for the CCR unit.
 - C. Provide the date when the public meeting was held for CMA for the CCR unit.
 - D. Provide the date when the CMA was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

This report provides the required information for Hennepin AP2 for calendar year 2020.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

Groundwater is being monitored at Hennepin AP2 in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment Monitoring was initiated at Hennepin AP2 on April 9, 2018. SSLs were determined for Hennepin AP2 and alternate source evaluations were inconclusive. In accordance with 40 C.F.R. § 257.95(g)(5), a CMA following the requirements of 40 C.F.R. § 257.96 was initiated on April 8, 2019 and completed on September 5, 2019. A public meeting was held on December 17, 2019 at St. Margaret's Hospital Presentation Room in Spring Valley, Illinois to discuss the results of the of the CMA in accordance with 40 C.F.R. § 257.96(e). Remedy selection is in progress and the associated semiannual reports required by 40 C.F.R. § 257.97(a) are being completed.

Hennepin AP2 remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.96(b).

Hennepin

3. KEY ACTIONS COMPLETED IN 2020

The Assessment Monitoring Program is summarized in Table A. The groundwater monitoring system, including the CCR unit and all background and downgradient monitoring wells, is presented in Figure 1. No changes were made to the monitoring system in 2020. In general, one groundwater sample was collected from each background and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan (NRT/OBG, 2017a). All monitoring data obtained under 40 C.F.R. §§ 257.90 through 257.98 (as applicable) in 2020, and analytical results for the September 2019 sampling event, are presented in Tables 1 and 2. Analytical data were evaluated in accordance with the Statistical Analysis Plan (NRT/OBG, 2017b) to determine any SSLs of Appendix IV parameters over GWPSs. Notifications were completed in accordance with 40 C.F.R. § 257.95(g).

Statistical background values are provided in Table 3 and GWPSs in Table 4.

Alternate source evaluations were inconclusive for one or more of the SSLs. Consequently, and in accordance with 40 C.F.R. § 257.95(g)(5), a CMA following the requirements of 40 C.F.R. § 257.96 was initiated on April 8, 2019 and the required notification completed. The CMA was completed on September 5, 2019 and posted to the publicly accessible website, as required by 40 C.F.R. § 257.107(h)(8).

Remedy selection is in progress and the associated semiannual reports required by 40 C.F.R. § 257.97(a) were completed in March and September of 2020.

Table A – 2019-2020 Assessment Monitoring Program Summary

Sampling Dates	Analytical Data Receipt Date	Parameters Collected	SSL(s)	SSL(s) Determination Date	CMA Initiated
September 17, 2019	October 22, 2019	Appendix III Appendix IV Detected ¹	Lithium (18S); Molybdenum (03R, 18S)	January 20, 2020	NA
March 11 - 12, 2020	April 21, 2020	Appendix III Appendix IV	Lithium (18S); Molybdenum (03R, 18S)	July 14, 2020	NA
September 3, 2020	October 16, 2020	Appendix III Appendix IV Detected ¹	TBD	TBD	NA

Notes:

NA: Not Applicable

TBD: To Be Determined

1. Groundwater sample analysis was limited to Appendix IV parameters detected in previous events in accordance with 40 C.F.R. § 257.95(d)(1).

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVED THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2020. Groundwater samples were collected and analyzed in accordance with the Sampling and Analysis Plan (NRT/OBG, 2017a), and all data were accepted.

Hennepin

5. KEY ACTIVITIES PLANNED FOR 2021

The following key activities are planned for 2021:

- Continuation of the Assessment Monitoring Program with semi-annual sampling scheduled for the first and third quarters of 2021.
- Complete evaluation of analytical data from the downgradient wells, using GWPSs to determine whether an SSL of Appendix IV parameters has occurred.
- Remedy selection will continue; semiannual progress reports required by 40 C.F.R. § 257.97(a) will be completed and posted to the publicly accessible website as required by 40 C.F.R. § 257.107(h)(9).

Hennepin

6. REFERENCES

Natural Resource Technology, an OBG Company (NRT/OBG), 2017a. Sampling and Analysis Plan, Hennepin Ash Pond No. 2, Hennepin Power Station, Hennepin, Illinois, Project No. 2285, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017b. Statistical Analysis Plan, Baldwin Energy Complex, Havana Power Station, Hennepin Power Station, Wood River Power Station, Dynegy Midwest Generation, LLC, October 17, 2017.

OBG, Part of Ramboll, 2019. Corrective Measures Assessment, Hennepin Ash Pond No. 2, Hennepin Power Station, Hennepin, Illinois, Dynegy Midwest Generation, LLC, September 5, 2019.

Hennepin

TABLES

Hennepin

TABLE 1.
ANALYTICAL RESULTS - GROUNDWATER ELEVATION AND APPENDIX III PARAMETERS
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER STATION
802 - ASH POND NO. 2
HENNEPIN, IL

Well ID	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Depth to Groundwater (ft) 6020A	Groundwater Elevation (ft NAVD88) 6020A	Boron, total (mg/L) 6020A	Calcium, total (mg/L) 6020A	Chloride, total (mg/L) 9251	Fluoride, total (mg/L) 9214	pH (field) (STD) SM4500 H+B	Sulfate, total (mg/L) 9036	Total Dissolved Solids (mg/L) SM 2540C
03R Downgradient	41.304578	-89.308691	9/17/2019	32.2	449.72	1.5	92	59	0.34	7.1	77	540
			3/11/2020	33.35	448.57							
			3/12/2020			1.96	87.9	57	0.36	7.2	106	534
			9/2/2020	33.02	448.9							
			9/3/2020			1.69	87.9	71	0.31	7.3	97	506
05R Downgradient	41.305163	-89.305449	9/17/2019	38.53	449.9	0.895	85.6	75	0.15	7.4	73	528
			3/11/2020	39.93	448.5							
			3/12/2020			3.35	95.4	67	0.14	7.6	136	592
			6/3/2020	34.15	454.28	4.31				7.7		
			9/2/2020	39.3	449.13							
05DR Downgradient	41.30516	-89.305471	9/3/2020			0.783	84.8	75	0.13	7.7	79	478
			9/17/2019	38.52	449.85	1.13	89.8	71	0.17	7.3	85	552
			3/11/2020	39.92	448.45							
			3/12/2020			1.17	88.1	71	0.17	7.4	77	540
			9/2/2020	39.31	449.06							
07 Background	41.297986	-89.305712	9/3/2020			1.02	88.3	65	0.16	7.5	81	498
			9/18/2019	64.6	453.67	0.0797	147	33	0.11	6.3	55	666
			3/11/2020	66.15	452.12							
			3/12/2020			0.0788	148	60	0.11	6.7	53	638
			9/2/2020	64.9	453.37							
08 Background	41.300698	-89.3044	9/3/2020			0.0811	146	38	0.1	6.8	67	606
			9/18/2019	50.82	450.56	0.151	242	220	<0.1	6.6	195	1360
			3/11/2020	52.36	449.02							
			3/12/2020			0.106	203	209	0.11	6.7	197	1210
			9/2/2020	51.69	449.69							
08D Background	41.300799	-89.304522	9/3/2020			0.119	202	168	<0.1	6.7	154	1010
			9/18/2019	50.9	450.44	0.117	187	226	0.12	6.7	121	1230
			3/11/2020	52.79	448.55							
			3/12/2020			0.115	182	217	0.12	6.7	142	1110
			9/2/2020	51.62	449.72							
18S Downgradient	41.304939	-89.3071	9/3/2020			0.0942	226	222	0.11	6.7	213	1200
			9/17/2019	37.95	449.75	7.12	127	55	0.16	7.3	204	688
			3/11/2020	39.22	448.48							
			3/12/2020			5.3	118	58	0.19	7.4	200	668
			9/2/2020	39.84	447.86							
18D Downgradient	41.30492	-89.307093	9/3/2020			4.43	106	66	0.16	7.5	160	578
			9/17/2019	38.15	449.45	1.87	99.6	70	0.19	7.1	97	576
			3/11/2020	39.18	448.42							
			3/12/2020			1.77	98.7	73	0.19	7.2	100	562
			9/2/2020	39.09	448.51							
19S Downgradient	41.30546	-89.303203	9/3/2020			1.54	96	80	0.18	7.3	106	492
			3/11/2020	38.95		6.21	116	50	0.15	7.5	204	574
			9/2/2020	38.18								
			9/3/2020			5.21	83.5	64	0.17	7.6	157	464

TABLE 1.
ANALYTICAL RESULTS - GROUNDWATER ELEVATION AND APPENDIX III PARAMETERS
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 HENNEPIN POWER STATION
 802 - ASH POND NO. 2
 HENNEPIN, IL

Well ID	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Depth to Groundwater (ft) 6020A	Groundwater Elevation (ft NAVD88) 6020A	Boron, total (mg/L) 6020A	Calcium, total (mg/L) 6020A	Chloride, total (mg/L) 9251	Fluoride, total (mg/L) 9214	pH (field) (STD) SM4500 H+B	Sulfate, total (mg/L) 9036	Total Dissolved Solids (mg/L) SM 2540C
19D Downgradient	41.30546	-89.303196	3/11/2020	38.87		4.65	57	71	0.17	8.4	95	394
			9/2/2020	38.15								
			9/3/2020			4.12	51.2	72	0.16	8.4	92	336
45S Downgradient	41.303751	-89.310195	9/17/2019	17.7	449.78	0.453	96.3	61	0.34	7.0	52	526
			3/11/2020	18.95	448.53							
			3/12/2020			0.412	98.6	77	0.35	7.1	72	550
			9/2/2020	18.45	449.03							
			9/3/2020			0.344	88.9	73	0.31	7.2	68	462

Notes:
 40 C.F.R. = Title 40 of the Code of Federal Regulations
 ft = foot/feet
 mg/L = milligrams per liter
 NAVD88 = North American Vertical Datum of 1988
 S.U. = Standard Units
 < = concentration is less than the concentration shown, which corresponds to the reporting limit for the method; estimated concentrations below the reporting limit and associated qualifiers are not provided since not utilized in statistics to determine Statistically Significant Increases (SSIs) over background.
 4-digit numbers below parameter represent SW-846 analytical methods and alpha-numeric values that begin with SM represent Standard Methods for the Examination of Water and Wastewater.

TABLE 2.
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER STATION
802 - ASH POND NO. 2
HENNEPIN, IL

Well ID	Date	Antimony, total 6020A	Arsenic, total 6020A	Barium, total 6020A	Beryllium, total 6020A	Cadmium, total 6020A	Chromium, total 6020A	Cobalt, total 6020A	Fluoride, total 6020A	Lead, total 6020A	Lithium, total 6020A	Mercury, total 7470A	Molybdenum, total 6020A	Radium-226 + Radium 228, 6020A	Selenium, total 6020A	Thallium, total 6020A
03R Downgradient	9/17/2019		<0.001	0.0601		<0.001		<0.001	0.34	<0.001	0.023		0.14	0.23	0.0035	
	3/12/2020	<0.001	<0.001	0.0615	<0.001	<0.001	<0.0015	<0.001	0.36	<0.001	0.0309	<0.0002	0.17	3.21	0.0094	<0.002
	9/3/2020			0.0616					0.31		0.022		0.147	0.81	0.0044	
05R Downgradient	9/17/2019								0.15							
	3/12/2020	<0.001	0.0011	0.0627	<0.001	<0.001	0.0036	<0.001	0.14	<0.001	0.0651	<0.0002	0.036	0.91	0.0373	<0.002
	9/3/2020	<0.001	0.0013	0.0537	<0.001	<0.001	<0.0015	<0.001	0.13	<0.001	0.0461	<0.0002	0.0154	0.7	0.0056	<0.002
05DR Downgradient	9/17/2019								0.17							
	3/12/2020	<0.001	<0.001	0.053	<0.001	<0.001	<0.0015	<0.001	0.17	<0.001	0.0327	<0.0002	0.0105	1.74	0.0018	<0.002
	9/3/2020	<0.001	<0.001	0.0538	<0.001	<0.001	<0.0015	<0.001	0.16	<0.001	0.031	<0.0002	0.011	3.54	0.003	<0.002
07 Background	9/18/2019		<0.001	0.114		<0.001		<0.001	0.11	<0.001	0.0088		<0.0015	0.85	<0.001	
	3/12/2020	<0.001	<0.001	0.114	<0.001	<0.001	<0.0015	<0.001	0.11	<0.001	0.0081	<0.0002	<0.0015	1.36	<0.001	<0.002
	9/3/2020	<0.001	<0.001	0.117	<0.001	<0.001	<0.0015	<0.001	0.1	<0.001	0.0086	<0.0002	<0.0015	0.49	<0.001	<0.002
08 Background	9/18/2019		<0.001	0.0943		<0.001		0.0099	<0.1	<0.001	0.0123		<0.0015	1.39	<0.001	
	3/12/2020	<0.001	<0.001	0.0707	<0.001	<0.001	<0.0015	0.0131	0.11	<0.001	0.0098	<0.0002	0.0016	1.13	<0.001	<0.002
	9/3/2020	<0.001	<0.001	0.0918	<0.001	<0.001	<0.0015	0.0047	<0.1	<0.001	0.0116	<0.0002	<0.0015	0.88	<0.001	<0.002
08D Background	9/18/2019		<0.001	0.143		<0.001		0.0057	0.12	<0.001	0.0142		0.0016	0.42	<0.001	
	3/12/2020	<0.001	<0.001	0.127	<0.001	<0.001	<0.0015	0.0023	0.12	<0.001	0.0132	<0.0002	<0.0015	1.35	<0.001	<0.002
	9/3/2020	<0.001	<0.001	0.131	<0.001	<0.001	<0.0015	0.0042	0.11	<0.001	0.013	<0.0002	<0.0015	0.55	<0.001	<0.002
18S Downgradient	9/17/2019		<0.001	0.0453		<0.001		<0.001	0.16	<0.001	0.101		0.276	0.41	0.0528	
	3/12/2020	<0.001	<0.001	0.0686	<0.001	<0.001	0.0016	<0.001	0.19	<0.001	0.0806	<0.0002	0.201	0.8	0.0555	<0.002
	9/3/2020			0.0592			<0.0015		0.16		0.0731		0.203	1.41	0.0273	
18D Downgradient	9/17/2019		<0.001	0.0769		<0.001		0.0044	0.19	<0.001	0.0296		0.0345	0.17	<0.001	
	3/12/2020	<0.001	<0.001	0.0754	<0.001	<0.001	<0.0015	0.0033	0.19	<0.001	0.028	<0.0002	0.0324	0.14	<0.001	<0.002
	9/3/2020			0.077				0.0036	0.18		0.0266		0.0341	2.11		
19S Downgradient	3/11/2020	0.0012	0.0016	0.0954	<0.001	<0.001	0.0032	<0.001	0.15	<0.001	0.094	<0.0002	0.0401	0.96	0.043	<0.002
	9/3/2020	0.0013	0.0015	0.0849	<0.001	<0.001	0.0024	<0.001	0.17	<0.001	0.0926	<0.0002	0.0691	0.1	0.0244	<0.002
19D Downgradient	3/11/2020	<0.001	0.0012	0.0266	<0.001	<0.001	<0.0015	<0.001	0.17	<0.001	0.132	<0.0002	0.0484	0.31	0.0057	<0.002
	9/3/2020	<0.001	0.0012	0.0237	<0.001	<0.001	<0.0015	<0.001	0.16	<0.001	0.128	<0.0002	0.0463	1.45	0.0023	<0.002
45S Downgradient	9/17/2019		<0.001	0.0713		<0.001		<0.001	0.34	<0.001	0.0144		0.0651	0.36	<0.001	
	3/12/2020	<0.001	<0.001	0.0835	<0.001	<0.001	<0.0015	0.0035	0.35	<0.001	0.0169	<0.0002	0.0634	0.69	<0.001	<0.002
	9/3/2020			0.0717			<0.0015	<0.001	0.31		0.012		0.0587	0.53		

Notes:
40 C.F.R. = Title 40 of the Code of Federal Regulations
mg/L = milligrams per liter
NA = Not Analyzed
pCi/L = picoCuries per liter
< = concentration is less than concentration shown, which corresponds to the reporting limit for the method; estimated concentrations below the reporting limit and associated qualifiers are not provided since not utilized in statistics to determine Statistically Significant Levels (SSLs) over Groundwater Protection Standards.
4-digit numbers below parameter represent SW-846 analytical methods and 3-digit numbers represent Clean Water Act analytical methods.

TABLE 3.
STATISTICAL BACKGROUND VALUES
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER STATION
802 - ASH POND NO. 2
HENNEPIN, ILLINOIS
ASSESSMENT MONITORING PROGRAM

Parameter	Statistical Background Value (UPL)
40 C.F.R. Part 257 Appendix III	
Boron (mg/L)	0.15
Calcium (mg/L)	274
Chloride (mg/L)	384
Fluoride (mg/L)	0.12
pH (S.U.)	6.6 / 7.5
Sulfate (mg/L)	196
Total Dissolved Solids (mg/L)	1493

[O: RAB 12/23/19, C: KLT 12/24/19]

Notes:

40 C.F.R. = Title 40 of the Code of Federal Regulations

mg/L = milligrams per liter

S.U. = Standard Units

UPL = Upper Prediction Limit

Hennepin

TABLE 4.
GROUNDWATER PROTECTION STANDARDS
2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 HENNEPIN POWER STATION
 802 - ASH POND NO. 2
 HENNEPIN, ILLINOIS
 ASSESSMENT MONITORING PROGRAM

Parameter	Groundwater Protection Standard ¹
40 C.F.R. Part 257 Appendix IV	
Antimony (mg/L)	0.006
Arsenic (mg/L)	0.010
Barium (mg/L)	2
Beryllium (mg/L)	0.004
Cadmium (mg/L)	0.005
Chromium (mg/L)	0.10
Cobalt (mg/L)	0.039
Fluoride (mg/L)	4
Lead (mg/L)	0.015
Lithium (mg/L)	0.040
Mercury (mg/L)	0.002
Molybdenum (mg/L)	0.10
Radium 226+228 (pCi/L)	5
Selenium (mg/L)	0.05
Thallium (mg/L)	0.002

[O: RAB 12/23/19, C: KLT 12/24/19]

Notes:

40 C.F.R. = Title 40 of the Code of Federal Regulations

mg/L = milligrams per liter

pCi/L = picoCuries per liter

¹Groundwater Protection Standard is the higher of the Maximum Contaminant Level / Health-Based Level or background.

FIGURES

Hennepin



- CCR DELINEATION MONITORING WELL LOCATION
- BACKGROUND MONITORING WELL LOCATION
- DOWNGRAIDENT MONITORING WELL LOCATION
- CCR MONITORED UNIT

0 175 350
Feet

MONITORING WELL LOCATION MAP HENNEPIN ASH POND NO. 2 UNIT ID:802

2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
VISTRA CCR RULE GROUNDWATER MONITORING
HENNEPIN POWER STATION
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL