Prepared for Dynegy Midwest Generation, LLC Document type 2019 Annual Groundwater Monitoring and Corrective Action Report Date January 31, 2020

2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT BALDWIN FLY ASH POND SYSTEM, BALDWIN ENERGY COMPLEX



2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT BALDWIN FLY ASH POND SYSTEM, BALDWIN ENERGY COMPLEX

Project name	Baldwin Energy Complex
Project no.	72751
Recipient	Dynegy Midwest Generation, LLC
Document type	Annual Groundwater Monitoring and Corrective Action Report
Version	FINAL
Date	January 31, 2020
Prepared by	Kristen L. Theesfeld
Checked by	Jacob J. Walczak
Approved by	Eric J. Tlachac
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

Jacob J. Walczak, PG Senior Hydrogeologist

CONTENTS

EXECU	TIVE SUMMARY	3
1.	Introduction	4
2.	Monitoring and Corrective Action Program Status	5
3.	Key Actions Completed in 2019	6
4.	Problems Encountered and Actions to Resolve the Problems	8
5.	Key Activities Planned for 2020	9
6.	References	10

TABLES

Table A	2018-2019 Assessment Monitoring Program Summary (in text)

- Table 1
 2019 Analytical Results Groundwater Elevation and Appendix III Parameters
- Table 2
 2019 Analytical Results Appendix IV Parameters
- Table 3Statistical Background Values
- Table 4Groundwater Protection Standards

FIGURES

Figure 1 Monitoring Well Location Map

APPENDICES

Appendix A Corrective Measures Assessment Extension Demonstration

2019 Annual Groundwater Monitoring and Corrective Action Report Baldwin Fly Ash Pond System, Baldwin Energy Complex

ACRONYMS AND ABBREVIATIONS

CCR	Coal Combustion Residuals
CMA	Corrective Measures Assessment
FAPS	Fly Ash Pond System
GWPS	Groundwater Protection Standard
SAP	Sampling and Analysis Plan
SSL	Statistically Significant Level

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 Baldwin Fly Ash Pond System (FAPS) located at Baldwin Energy Complex near Baldwin, Illinois.

Groundwater is being monitored at Baldwin FAPS in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95.

No changes were made to the monitoring system in 2019 (no wells were installed or decommissioned). Existing monitoring well MW-350 was used to delineate the extent of impact for the Corrective Measures Assessment (CMA).

The following Statistically Significant Levels (SSLs) of 40 C.F.R. Part 257 Appendix IV parameters were determined during one or more sampling events in 2019:

• Lithium at wells MW-375 and MW-391

As required by 40 C.F.R. § 257.95(g)(3)(i), a CMA (OBG, 2019) in accordance with 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019, and remedy selection is in progress.

A public meeting to discuss the results of the of the CMA was held in December 2019.

1. INTRODUCTION

This report has been prepared by Ramboll on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for the Baldwin FAPS located at Baldwin Energy Complex near Baldwin, 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 relative to background levels).
- 5. Other information required to be included in the Annual Report as specified in §§ 257.90 through 257.98.

This report provides the required information for the Baldwin FAPS for calendar year 2019.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

SSLs were determined for Baldwin FAPS and alternate source evaluations were inconclusive. In accordance with 40 C.F.R. § 257.95(g)(5), a CMA meeting the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019. Remedy selection is in progress. Baldwin FAPS remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.96(b).

3. KEY ACTIONS COMPLETED IN 2019

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. In general, one groundwater sample was collected from each background and downgradient monitoring system well during each monitoring event. Existing monitoring well MW-350 located downgradient of Baldwin FAPS was sampled on June 25, 2019 to delineate the extent of impact. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan (SAP) (NRT/OBG, 2017a). All monitoring data obtained under 40 C.F.R. §§ 257.90 through 257.98 (as applicable) in 2019 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 Groundwater Protection Standards (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.

Analytical results for the June and September 2018 sampling events were provided in the 2018 Annual Groundwater Monitoring and Corrective Action Report.

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 meeting the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and the required notification completed. The CMA (OBG, 2019) was completed on September 5, 2019 and posted to the publicly accessible website, as required by 40 C.F.R. § 257.107(h)(8). The demonstration justifying the need for a 60-day extension to the 90-day completion deadline for the CMA required by 40 C.F.R. § 257.96(a) is provided in Appendix A.

A public meeting was held on December 2, 2019 at the Red Bud High School Gymnasium in Red Bud, Illinois to discuss the results of the of the CMA in accordance with 40 C.F.R. § 257.96(e).

Sampling Dates	Analytical Data Receipt Date	Parameters Collected	SSL(s)	SSL(s) Determination Date	CMA Initiated
June 26-27, 2018	August 22, 2018	Appendix III Appendix IV	NA	NA	NA
September 25-26, 2018	November 6, 2018	Appendix III Appendix IV Detected ¹	Lithium (MW-375, MW-391)	January 7, 2019	May 8, 2019
March 19-20, 2019	April 30, 2019	Appendix III Appendix IV	Lithium (MW-375, MW-391)	July 29, 2019	NA
September 24-25, 2019	October 24, 2019	Appendix III Appendix IV Detected ¹	TBD	TBD	NA

Table A – 2018-2019 Assessment Monitoring Program Summary

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 RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2019. Groundwater samples were collected and analyzed in accordance with the SAP (NRT/OBG, 2017a), and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2020

The following key activities are planned for 2020:

- Continuation of the Assessment Monitoring Program with semi-annual sampling scheduled for first and third quarters of 2020.
- 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).

6. **REFERENCES**

Natural Resource Technology, an OBG Company (NRT/OBG), 2017a, Sampling and Analysis Plan, Baldwin Fly Ash Pond System, Baldwin Energy Complex, Baldwin, 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, Baldwin Fly Ash Pond System (FAPS), Baldwin Energy Complex, 10901 Baldwin Road, Baldwin, Illinois, Dynegy Midwest Generation, LLC, September 5, 2019, .

TABLES

TABLE 1.

2019 ANALYTICAL RESULTS - GROUNDWATER ELEVATION AND APPENDIX III PARAMETERS 2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BALDWIN ENERGY COMPLEX

UNIT ID 605 - BALDWIN FLY ASH POND SYSTEM

BALDWIN, ILLINOIS

ASSESSMENT MONITORING PROGRAM

				Depth to Groundwater (ft) ¹	Groundwater Elevation (ft NAVD88)	40 C.F.R. Part 257 Appendix III								
Well Identification Number	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date & Time Sampled			Boron, total (mg/L)	Calcium, total (mg/L)	Chloride, total (mg/L)	Fluoride, total (mg/L)	pH (field) (S.U.)	Sulfate, total (mg/L)	Total Dissolved Solids (mg/L)		
						6020A ²	6020A ²	9251 ²	9214 ²	SM 4500 H+B ²	9036 ²	SM 2540C ²		
Background /	Upgradient Mo	nitoring Wells												
MW-304	38.188332	-89.853441	3/20/2019 15:03	9.33	446.16	1.82	13.7	148	1.88	7.7	177	1390		
1110-304	50.100552	-09.055441	9/25/2019 13:11	9.30	446.19	1.84	18.4	152	1.74	7.9	169	1350		
MW-306	38.201117	-89.846747	3/20/2019 14:16	16.98	436.19	0.174	50.4	62	0.65	11.4	32	330		
1100-500	50.201117	-09.040747	9/25/2019 14:22	18.10	435.07	0.166	46.0	62	0.59	11.0	37	318		
Downgradient	: Monitoring We	lls												
MW-366	38.192191	-89.872345	3/19/2019 14:01	8.43	416.65	1.37	146	43	0.51	7.0	397	1030		
MW-300			9/25/2019 9:59	20.35	404.73	1.50	166	47	0.56	6.7	464	1130		
MW-375 38.1890	38.189045	-89.873514	3/20/2019 10:58	30.91	392.14	1.38	21.0	95	2.57	7.8	184	1040		
1100-373	56.169045		9/25/2019 11:43	30.10	392.95	1.39	20.7	97	2.44	7.8	163	1010		
MW-377	38.188386	-89.869742	3/20/2019 11:33	3.50	417.86	1.73	68.1	90	1.24	7.2	38	614		
1100-377	50.100500	-09.009742	9/25/2019 12:21	5.47	415.89	1.77	57.8	93	1.24	7.0	39	626		
MW-383	38.194913	-89.858286	3/20/2019 9:23	15.11	444.38	1.43	18.4	39	0.78	7.5	166	920		
110 305	50.194915	56.194915	09.030200	9/24/2019 12:46	17.25	442.24	1.39	19.2	41	0.77	7.5	169	922	
MW-384	38.191789	-89.860699	3/20/2019 10:14	10.81	448.14	1.44	21.5	216	1.79	7.5	94	1180		
1100-304	50.191709	-09.000099	9/24/2019 13:19	13.69	445.26	1.36	19.8	197	1.76	8.0	102	1120		
MW-390	38.192953	-89.869792	3/19/2019 13:25	3.70	424.36	0.178	89.2	67	0.52	7.2	114	646		
1110-330	50.192955	-09.009/92	9/24/2019 14:43	9.02	419.04	0.288	90.9	116	0.64	7.1	171	800		
MW-391	38.190869	-89.874758	3/19/2019 14:51	27.86	398.77	6.77	44.7	182	2.64	7.6	1340	3110		
1100-221	30.190009	-09.0/4/58	9/25/2019 10:49	26.76	399.87	6.16	35.5	194	2.57	7.6	1450	2980		
Delineation M	onitoring Wells													
MW-350	38.189417	-89.854856	6/25/2019 14:59 ³	NM	NM	NA	NA	NA	NA	NA	NA	NA		

5. 100 12/20/10, C. KET 12/20/10][C. KET 1/24/20, C. 100 1/20/2020]

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

ft = foot/feet

mg/L = milligrams per liter

NA = Not Analyzed

NAVD88 = North American Vertical Datum of 1988

NM = Not Measured

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.

 $^1\mbox{All}$ depths to groundwater were measured on the first day of the sampling event.

²4-digit numbers represent SW-846 analytical methods.

³Only the SSL parameter was analyzed during this sampling event to delineate the extent of impact.

TABLE 2.2019 ANALYTICAL RESULTS - APPENDIX IV PARAMETERS2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BALDWIN ENERGY COMPLEX

UNIT ID 605 - BALDWIN FLY ASH POND SYSTEM

BALDWIN, ILLINOIS

ASSESSMENT MONITORING PROGRAM

				40 C.F.R. Part 257 Appendix IV															
Identification (Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	(Decimal	Date & Time Sampled	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226/228, Combined (pCi/L)	Selenium, total (mg/L)	Thallium total (mg/L)
				6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	6020A ¹	7470A ¹	6020A ¹	903/904 ¹	6020A ¹	6020A ¹	
Background /	Upgradient Mo	onitoring Wells	1																
MW-304 ²	38.188332	-89.853441	3/20/2019 15:03	<0.0010	0.0029	0.0214	<0.0010	<0.0010	<0.0015	<0.0010	1.88	<0.0010	0.0833	<0.00020	0.0019	0.55	<0.0010	<0.0020	
1410-304	30.100332	-09.055441	9/25/2019 13:11 ³	<0.0010	0.0017	0.0211	<0.0010	< 0.0010	<0.0015	<0.0010	1.74	<0.0010	0.0836	<0.00020	0.0017	0.42	<0.0010	<0.0020	
MW-306 ²	38.201117 -89.846	-89.846747	3/20/2019 14:16	<0.0010	0.0030	0.0192	<0.0010	<0.0010	<0.0015	<0.0010	0.65	<0.0010	0.0143	<0.00020	0.0299	0.74	<0.0010	<0.0020	
MM-200	38.201117	-09.040747	9/25/2019 14:22 ³	<0.0010	0.0021	0.0150	<0.0010	<0.0010	<0.0015	<0.0010	0.59	<0.0010	0.0133	<0.00020	0.0267	0.36	<0.0010	<0.0020	
Downgradien	t Monitoring W	ells																	
MW-366		MW 266 20 102101	38.192191 -89.872345	3/19/2019 14:01	<0.0010	<0.0010	0.0348	< 0.0010	< 0.0010	< 0.0015	<0.0010	0.51	< 0.0010	0.0101	<0.00020	0.0068	0.44	<0.0010	<0.0020
MW-366 38.192	38.192191	-69.672345	9/25/2019 9:59 ³	<0.0010	<0.0010	0.0617	NA	NA	< 0.0015	NA	0.56	NA	0.0177	NA	0.0047	0.91	<0.0010	NA	
MW-375		-89.873514	3/20/2019 10:58	0.0014	0.0020	0.0271	<0.0010	<0.0010	<0.0015	<0.0010	2.57	<0.0010	0.0744	<0.00020	0.0291	0.72	<0.0010	<0.0020	
MW-375	38.189045	-89.873514	9/25/2019 11:43 ³	0.0017	0.0018	0.0263	NA	NA	<0.0015	NA	2.44	NA	0.0831	NA	0.0248	0.28	<0.0010	NA	
MW-377	38.188386	-89.869742	3/20/2019 11:33	<0.0010	<0.0010	0.0672	<0.0010	<0.0010	<0.0015	<0.0010	1.24	<0.0010	0.0603	<0.00020	<0.0015	0.06	<0.0010	<0.0020	
14100-377	30.100300		9/25/2019 12:21 ³	<0.0010	<0.0010	0.0630	NA	NA	<0.0015	NA	1.24	NA	0.0671	NA	<0.0015	0.71	<0.0010	NA	
MW-383	38 10/013	38.194913	-89.858286	3/20/2019 9:23	<0.0010	<0.0010	0.0414	<0.0010	< 0.0010	<0.0015	<0.0010	0.78	< 0.0010	0.0387	<0.00020	0.0104	0.50	<0.0010	<0.0020
1100-202	30.194915	-09.030200	9/24/2019 12:46 ³	<0.0010	<0.0010	0.0410	NA	NA	<0.0015	NA	0.77	NA	0.0421	NA	0.0100	0.24	<0.0010	NA	
MW-384	38.191789	-89.860699	3/20/2019 10:14	<0.0010	<0.0010	0.0336	<0.0010	< 0.0010	<0.0015	<0.0010	1.79	<0.0010	0.0433	<0.00020	0.0254	0.47	<0.0010	<0.0020	
1100 304	50.151705	09.000099	9/24/2019 13:19 ³	<0.0010	<0.0010	0.0305	NA	NA	<0.0015	NA	1.76	NA	0.0451	NA	0.0198	0.35	<0.0010	NA	
MW-390	38.192953	-89.869792	3/19/2019 13:25	<0.0010	0.0015	0.0962	<0.0010	<0.0010	<0.0015	<0.0010	0.52	<0.0010	0.0153	<0.00020	0.0037	0.62	<0.0010	<0.0020	
1100 350	50.152555	05.005752	9/24/2019 14:43 ³	<0.0010	0.0016	0.0830	NA	NA	<0.0015	NA	0.64	NA	0.0249	NA	0.0032	1.28	<0.0010	NA	
MW-391	38.190869	-89.874758	3/19/2019 14:51	0.0016	0.0020	0.0366	<0.0010	<0.0010	<0.0015	<0.0010	2.64	<0.0010	0.128	<0.00020	0.0394	0.96	0.0026	<0.0020	
1100 391	56.190809	05.074750	9/25/2019 10:49 ³	0.0016	0.0015	0.0330	NA	NA	<0.0015	NA	2.57	NA	0.124	NA	0.0423	0.99	0.0020	NA	
Delineation M	onitoring Wells	5																	
MW-350	38.189417	-89.854856	6/25/2019 14:59	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0788	NA	NA	NA	NA	NA	

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.

¹4-digit numbers represent SW-846 analytical methods and 3-digit numbers represent Clean Water Act analytical methods.

²Well is a shared background/upgradient monitoring well. Parameter results present that were not detected in downradient monitoring wells at the Coal Combustion Residuals (CCR) unit were analyzed due to detection at another CCR unit.

³Only the parameters detected during the previous sampling events were analyzed during this sampling event, in accordance with 40 C.F.R. § 257.95(d)(1).

TABLE 3. STATISTICAL BACKGROUND VALUES 2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT BALDWIN ENERGY COMPLEX UNIT ID 605 - BALDWIN FLY ASH POND SYSTEM BALDWIN, ILLINOIS ASSESSMENT MONITORING PROGRAM

Parameter	Statistical Background Value (UPL)				
40 C.F.R. Part 257 A	ppendix III				
Boron (mg/L)	2.21				
Calcium (mg/L)	35				
Chloride (mg/L)	155				
Fluoride (mg/L)	1.98				
pH (S.U.)	7.8 / 11.2				
Sulfate (mg/L)	200				
Total Dissolved Solids (mg/L)	1360				
[O: RAB 1	2/23/19, C: KLT 12/23/19]				

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

Balanin



TABLE 4.GROUNDWATER PROTECTION STANDARDS2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORTBALDWIN ENERGY COMPLEXUNIT ID 605 - BALDWIN FLY ASH POND SYSTEMBALDWIN, ILLINOISASSESSMENT MONITORING PROGRAM

Parameter	Groundwater Protection Standard ¹
40 C.F.R. Part 25	7 Appendix IV
Antimony (mg/L)	0.006
Arsenic (mg/L)	0.032
Barium (mg/L)	2
Beryllium (mg/L)	0.004
Cadmium (mg/L)	0.005
Chromium (mg/L)	0.10
Cobalt (mg/L)	0.006
Fluoride (mg/L)	4
Lead (mg/L)	0.015
Lithium (mg/L)	0.069
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 12/23/19]

Notes:

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

mg/L = milligrams per liter

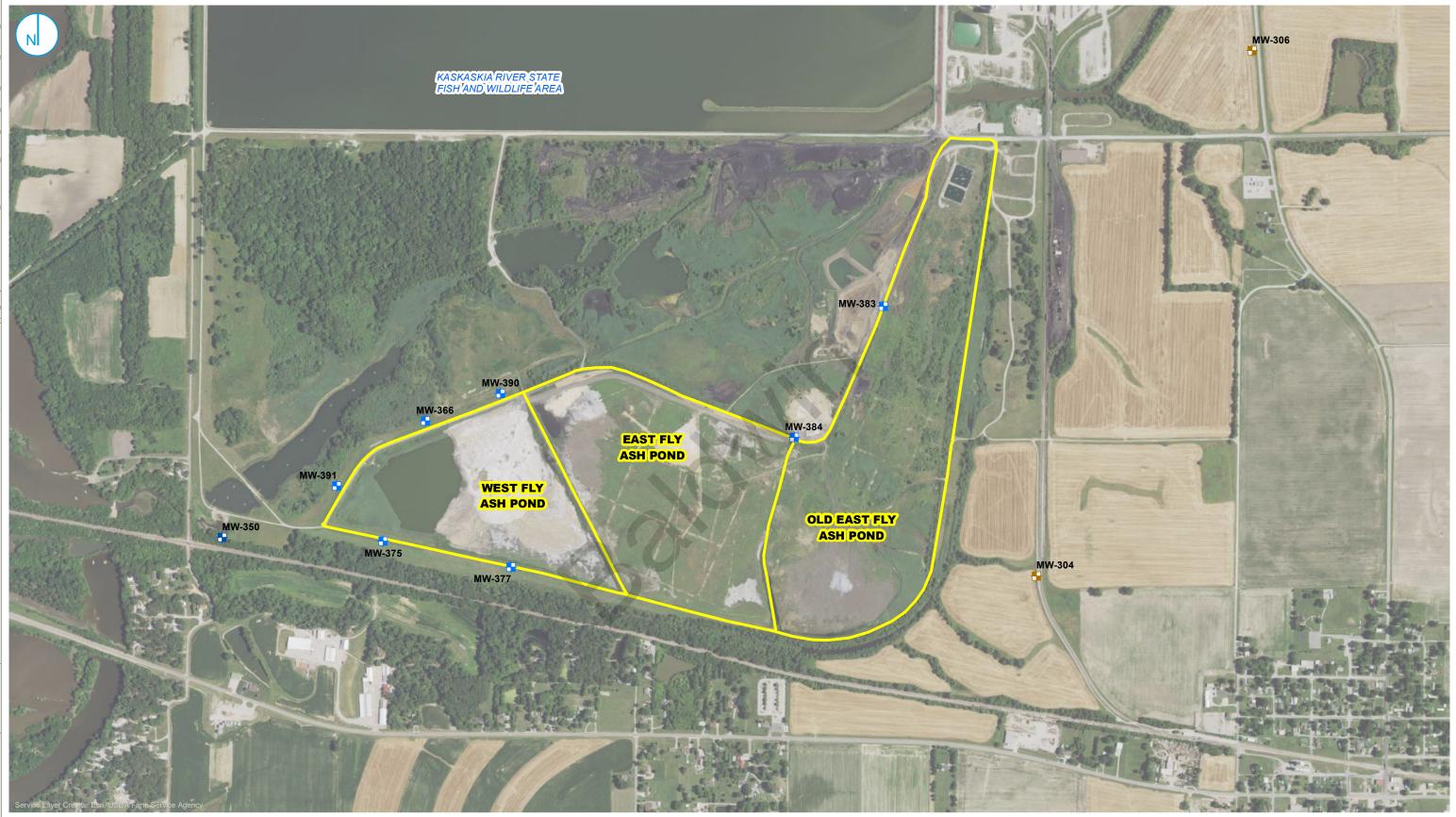
pCi/L = picoCuries per liter

 $^1 {\rm Groundwater}$ Protection Standard is the higher of the Maximum Contaminant Level /

Health-Based Level or background.



FIGURES



CCR DELINEATION MONITORING WELL LOCATION

- DOWNGRADIENT MONITORING WELL LOCATION
- UPGRADIENT MONITORING WELL LOCATION CCR MONITORED MULTI-UNIT

BALDWIN FLY ASH POND SYSTEM

2019 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT VISTRA CCR RULE GROUNDWATER MONITORING BALDWIN ENERGY COMPLEX

400 800 L Feet

FIGURE 1

O'BRIEN & GERE ENGINEERS, INC. A RAMBOLL COMPANY



MONITORING WELL LOCATION MAP MULTI-UNIT ID:605

BALDWIN, ILLINOIS

APPENDIX A CORRECTIVE MEASURES ASSESSMENT EXTENSION DEMONSTRATION

Balawill



July 8, 2019

Brian Voelker Vistra Energy 133 South 4th Street Suite 306 Springfield, IL 62701

> RE: Justification for Extension to Complete Corrective Measures Assessment Under 40 C.F.R. § 257.96 Baldwin Energy Complex Fly Ash Pond System – CCR Unit ID 605

Dear **Brian**,

O'Brien & Gere Engineers, Inc., a Ramboll Company, (OBG, Part of Ramboll) is providing Dynegy Midwest Generation, LLC with this letter certifying that, based on our knowledge of the status of the groundwater monitoring and corrective measures assessment (CMA) activities at the Fly Ash Pond System coal combustion residuals (CCR) multi-unit at Baldwin Energy Complex, a 60-day extension to complete the CMA is justified and valid.

OBG, Part of Ramboll understands the CMA was initiated on April 8, 2019, following identification of a groundwater protection standard exceedance under 40 C.F.R. § 257.95. CMA activities are ongoing, and due to site-specific circumstances, the CMA cannot be completed within 90 days. Accordingly, 60 additional days are warranted based on the following site-specific circumstances:

- Additional groundwater sampling and analysis to characterize the contaminant plume, as required by 40 C.F.R. § 257.95(g)(1), including the following
 - » Identify existing monitoring wells to be sampled to characterize the contaminant plume
 - » Mobilization to the site to sample the identified monitoring wells
 - » Laboratory analysis of groundwater samples collected from the monitoring wells
 - » Comparison of laboratory results to the groundwater protection standards

As used herein, the word "certification" or "certifying" shall mean an expression of the Engineer's professional opinion to the best of his or her information, knowledge, and belief, and does not constitute a warranty or guarantee by the Engineer.



PROFESSIONAL CERTIFICATION

I hereby certify that a 60-day extension to the 90-day completion timeframe for the corrective measures assessment is justified and valid pursuant to 40 C.F.R. § 257.96(a).

Very truly yours, O'BRIEN & GERE ENGINEERS, INC., A RAMBOLL COMPANY

E. alather <

Eric J. Tlachac, PE Managing Engineer

Baldwin Fly Ash Pond System CMA Extension.docx



Balowin

