

# **2017 Annual Groundwater Monitoring and Corrective Action Report**

**Miami Fort Basin B – CCR Unit ID 112  
Miami Fort Power Station  
11021 Brower Road  
North Bend, Ohio 45052**

**Dynegy Miami Fort, LLC**

**January 31, 2018**



MIAMI FORT BASIN B  
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

JANUARY 31, 2018 | PROJECT #67720

# 2017 Annual Groundwater Monitoring and Corrective Action Report

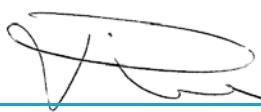
Miami Fort Basin B – CCR Unit ID 112  
Miami Fort Power Station  
North Bend, Ohio

Prepared for:  
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## **ACRONYMS AND ABBREVIATIONS**

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CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
mg/L	milligrams per liter
NRT/OBG	Natural Resource Technology, an OBG Company
OBG	O'Brien & Gere Engineers, Inc.
SSI	statistically significant increase
STD	standard units

## **1 INTRODUCTION**

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### **1.1 OVERVIEW**

This report has been prepared on behalf of Dynegy Miami Fort, LLC by O'Brien & Gere Engineers, Inc. (OBG), to provide the information required by 40 CFR 257.90(e) for the Miami Fort Basin B located at Miami Fort Power Station near North Bend, Ohio.

In accordance with 40 CFR 257.90(e), the owner or operator of an existing 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 over background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.<sup>1</sup>

This report provides the required information for the Miami Fort Basin B for calendar year 2017.

### **1.2 MONITORING AND CORRECTIVE ACTION PROGRAM STATUS**

The final three independent samples of the minimum eight required by 40 CFR 257.94(b) were collected and analyzed from each background and downgradient well in 2017 before October 17. The other five independent samples were collected and analyzed in 2015 and 2016.

The first semi-annual monitoring sample for the Detection Monitoring Program was collected in November 2017 from each well.

Using the last of the minimum eight samples required to be collected by October 17, 2017 to determine whether a statistically significant increase (SSI) of Appendix III parameters over background concentrations has occurred, evaluation of analytical data from the downgradient wells was initiated beginning no later than October 17, 2017 for the initial eight samples. SSI determinations will be completed within 90 days (January 15, 2018). In addition, SSI determinations will be completed within 90 days of completion of analysis for the first semi-annual detection monitoring sample collected on November 13-14, 2017, for which analytical data was received on November 30, 2017.

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<sup>1</sup> For calendar year 2017, corrective action and other information required to be included in the annual report as specified in §§ 257.90 through 257.98 is inapplicable.

## **2 KEY ACTIONS COMPLETED IN 2017**

### **2.1 SUMMARY**

Three groundwater sampling events were completed in 2017 as part of an effort initiated in 2015 to collect eight independent samples from background and downgradient monitoring wells in accordance with 40 CFR 257.94(b).

Subsequent to collection of the eight independent samples, an additional sampling event was completed in November 2017 for parameters listed in Appendix III, 40 CFR Part 257, to supplement the background data set and as the first semi-annual monitoring sampling event for the Detection Monitoring Program.

A map showing the groundwater monitoring system, including the CCR unit and all background and downgradient monitoring wells with well identification numbers, for the Miami Fort Basin B is presented in Figure 1. MW-10 was installed as a replacement for MW-10S, and MW-11 as a replacement for MW-11S on April 10 and 11, 2017 respectively. MW-10 and MW-11 monitor groundwater at an elevation consistent with the other wells in the monitoring system. MW-10S and MW-11S will continue to be used to monitor groundwater elevation. No monitoring wells were decommissioned from the monitoring system in 2017.

Samples were collected and analyzed in accordance with the Sampling and Analysis Plan (AECOM, 2017) prepared for the Miami Fort Basin B.

All monitoring data obtained under 40 CFR §§ 257.90 through 257.98 (as applicable) in 2017, as well as monitoring data for the previously collected five independent samples are presented in Tables 1 and 2. Sample collection dates in 2017 were March 7-8, June 6, July 10, and November 13-14. Sample collection dates for previously collected five independent samples are identified in Tables 1 and 2. One ground water sample was collected from each background and downgradient well in each sampling event.

Statistical evaluation of analytical data from the eight independent samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring event on November 13-14, 2017 was initiated and will be completed within 90 days of October 17, 2017 (January 15, 2018) or 90 days from receipt of the data from the first semi-annual detection monitoring event (February 28, 2018), respectively. Statistical evaluation of analytical data is being performed in accordance with the Statistical Analysis Plan, Miami Fort Power Station, Dynegy Miami Fort, LLC (NRT/OBG, 2017). Data from MW-10S/MW-10 and MW-11S/MW-11 pairs will be pooled during statistical evaluation.

### **2.2 PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS**

Groundwater samples were collected and analyzed in accordance with the Sampling and Analysis Plan. Field pH measurements during collection of the March 7-8, 2017 groundwater samples are not valid due to a malfunction of the water quality probe used to take the measurements. No additional problems were encountered during 2017.

### **3 KEY ACTIVITIES PLANNED FOR 2018**

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#### **3.1 SUMMARY**

The following key activities are planned for 2018:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the 2nd and 4th quarters of 2018.
- Complete evaluation of analytical data from the downgradient wells, using both the eight samples required to be collected by October 17, 2017 and the first semi-annual detection monitoring sample taken in November 2017 to determine whether a SSI of Appendix III parameters over background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that that SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated. If an alternate source is demonstrated to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI detection and included in the annual groundwater monitoring and corrective action report for 2018.
  - » If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 CFR §§ 257.94 through 257.98 (*e.g.*, assessment monitoring) as may apply in 2018 will be met, including associated recordkeeping/notifications required by 40 CFR §§ 257.105 through 257.108.

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## **REFERENCES**

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AECOM, 2017, Sampling and Analysis Plan, CCR Rule Groundwater Monitoring, Basin B, Unit 112, Miami Fort Power Station, Cleves, Ohio, Job Number 60442412, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company, 2017, Statistical Analysis Plan, Miami Fort Power Station, Dynegy Miami Fort, LLC, October 17, 2017.

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**Tables**

**Miami Fort**

January 30, 2018

**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

5:46:12 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>B, tot, mg/L</b>	<b>Ca, tot, mg/L</b>	<b>Cl, tot, mg/L</b>	<b>F, tot, mg/L</b>	<b>pH (field), STD</b>	<b>SO4, tot, mg/L</b>
<b>MW-1</b>	<b>12/8/2015</b>	1.900	217.0	54.60	0.3330	7.030	492.0
	<b>3/22/2016</b>	1.150	274.0	48.20	0.3730	7.130	420.0
	<b>6/21/2016</b>	1.470	203.0	<30.00	<1.000	7.020	107.0
	<b>9/13/2016</b>	1.200	237.0	50.80	<1.000	6.970	550.0
	<b>12/14/2016</b>	0.7370	181.0	<60.00	<1.000	7.120	308.0
	<b>3/7/2017</b>	0.7110	162.0	57.30	<1.000	8.090	333.0
	<b>6/6/2017</b>	0.7990	187.0	71.50	<1.000	7.260	350.0
	<b>7/10/2017</b>	0.7980	168.0	<60.00	<1.000	6.940	348.0
	<b>11/13/2017</b>	0.5370	125.0	54.30	<1.000	6.680	290.0
<b>MW-10</b>	<b>6/6/2017</b>	0.08950	67.10	53.50	<1.000	7.070	10.30
	<b>7/10/2017</b>	0.1350	72.70	45.70	<1.000	7.070	<5.000
	<b>11/14/2017</b>	<0.08000	51.50	31.70	<1.000	7.180	18.30
<b>MW-10S</b>	<b>12/9/2015</b>	2.020	142.0	21.50	0.1500	6.810	72.00
	<b>3/23/2016</b>	0.5400	196.0	11.30	0.2240	6.640	32.80
	<b>6/22/2016</b>	0.5600	138.0	11.90	<1.000	6.650	16.60
	<b>9/14/2016</b>	0.6490	137.0	12.50	<1.000	6.710	15.80
	<b>12/13/2016</b>	0.7430	167.0	11.80	<1.000	6.890	13.10
	<b>3/8/2017</b>	0.8350	150.0	11.50	<1.000	8.560	14.50

**Miami Fort**

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
MW-1	12/8/2015	1050.
	3/22/2016	989.0
	6/21/2016	988.0
	9/13/2016	1160.
	12/14/2016	819.0
	3/7/2017	852.0
	6/6/2017	876.0
	7/10/2017	836.0
	11/13/2017	589.0
MW-10	6/6/2017	360.0
	7/10/2017	351.0
	11/14/2017	298.0
MW-10S	12/9/2015	682.0
	3/23/2016	629.0
	6/22/2016	624.0
	9/14/2016	614.0
	12/13/2016	648.0
	3/8/2017	703.0

**Miami Fort**

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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<b>Location ID</b>	<b>Sample Date</b>	<b>B, tot, mg/L</b>	<b>Ca, tot, mg/L</b>	<b>Cl, tot, mg/L</b>	<b>F, tot, mg/L</b>	<b>pH (field), STD</b>	<b>SO4, tot, mg/L</b>
<b>MW-11</b>	<b>6/6/2017</b>	<0.08000	58.50	38.00	<1.000	7.310	35.50
	<b>7/10/2017</b>	0.09170	55.30	39.50	<1.000	7.390	<50.00
	<b>11/14/2017</b>	0.08240	54.80	34.60	<1.000	7.250	<50.00
<b>MW-11S</b>	<b>12/9/2015</b>	0.1610	145.0	15.10	0.2660	6.980	15.20
	<b>3/23/2016</b>	0.04170	211.0	8.420	0.4000	6.940	2.640
	<b>6/22/2016</b>	0.04920	157.0	9.870	<1.000	6.860	<5.000
	<b>9/14/2016</b>	0.07380	161.0	9.730	<1.000	6.960	<5.000
	<b>12/14/2016</b>	0.04660	160.0	8.890	<1.000	6.970	<5.000
	<b>3/8/2017</b>	<0.08000	156.0	18.70	<1.000	8.760	15.80
<b>MW-2</b>	<b>12/9/2015</b>	1.900	147.0	30.80	0.1150	6.820	71.50
	<b>3/22/2016</b>	0.9580	185.0	25.90	0.1840	6.760	59.80
	<b>6/22/2016</b>	1.170	140.0	27.60	<1.000	6.620	59.90
	<b>9/14/2016</b>	1.130	139.0	32.40	<1.000	6.690	63.80
	<b>12/13/2016</b>	1.060	139.0	29.80	<1.000	6.730	62.20
	<b>3/8/2017</b>	1.230	138.0	23.10	<1.000	8.540	53.80
	<b>6/6/2017</b>	0.4850	148.0	<30.00	<1.000	6.710	33.50
	<b>7/10/2017</b>	0.3220	134.0	28.10	<1.000	6.550	27.10

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
MW-11	6/6/2017	321.0
	7/10/2017	314.0
	11/14/2017	306.0
MW-11S	12/9/2015	648.0
	3/23/2016	651.0
	6/22/2016	651.0
	9/14/2016	645.0
	12/14/2016	646.0
	3/8/2017	758.0
MW-2	12/9/2015	651.0
	3/22/2016	641.0
	6/22/2016	655.0
	9/14/2016	645.0
	12/13/2016	652.0
	3/8/2017	690.0
	6/6/2017	695.0
	7/10/2017	690.0

**Miami Fort**

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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<b>Location ID</b>	<b>Sample Date</b>	<b>B, tot, mg/L</b>	<b>Ca, tot, mg/L</b>	<b>Cl, tot, mg/L</b>	<b>F, tot, mg/L</b>	<b>pH (field), STD</b>	<b>SO4, tot, mg/L</b>
<b>MW-2</b>	<b>11/13/2017</b>	0.7940	135.0	31.30	<1.000	6.240	<50.00
<b>MW-3A</b>	<b>12/9/2015</b>	0.1440	50.00	29.00	0.1690	7.340	16.10
	<b>3/22/2016</b>	0.05120	69.00	27.60	0.2030	7.020	7.400
	<b>6/22/2016</b>	0.06400	48.90	26.60	<1.000	7.090	12.70
	<b>9/14/2016</b>	0.08850	49.40	29.30	<1.000	7.270	16.60
	<b>12/13/2016</b>	0.06290	49.10	<30.00	<1.000	7.370	14.00
	<b>3/8/2017</b>	<0.08000	43.00	28.70	<1.000	9.070	12.80
	<b>6/6/2017</b>	<0.08000	56.70	<30.00	<1.000	6.980	6.560
	<b>7/10/2017</b>	<0.08000	54.10	28.80	<1.000	6.870	11.60
	<b>11/14/2017</b>	<0.08000	47.00	26.80	<1.000	6.950	8.320
<b>MW-7</b>	<b>12/8/2015</b>	0.2050	130.0	10.30	0.1190	7.110	54.20
	<b>3/22/2016</b>	0.06450	159.0	4.730	0.1280	6.810	39.40
	<b>6/21/2016</b>	0.09610	120.0	<30.00	<10.00	6.970	53.60
	<b>9/13/2016</b>	0.1120	109.0	7.140	<1.000	6.930	49.30
	<b>12/14/2016</b>	0.08370	118.0	5.980	<1.000	6.990	<50.00
	<b>3/8/2017</b>	0.08030	104.0	6.460	<1.000	9.350	39.10
	<b>6/6/2017</b>	<0.08000	102.0	6.150	<1.000	7.610	50.60
	<b>7/10/2017</b>	0.08870	108.0	7.840	<1.000	6.690	<100.0

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
<b>MW-2</b>	<b>11/13/2017</b>	595.0
<b>MW-3A</b>	<b>12/9/2015</b>	243.0
	<b>3/22/2016</b>	264.0
	<b>6/22/2016</b>	256.0
	<b>9/14/2016</b>	238.0
	<b>12/13/2016</b>	256.0
	<b>3/8/2017</b>	248.0
	<b>6/6/2017</b>	289.0
	<b>7/10/2017</b>	251.0
	<b>11/14/2017</b>	255.0
<b>MW-7</b>	<b>12/8/2015</b>	519.0
	<b>3/22/2016</b>	468.0
	<b>6/21/2016</b>	478.0
	<b>9/13/2016</b>	494.0
	<b>12/14/2016</b>	456.0
	<b>3/8/2017</b>	450.0
	<b>6/6/2017</b>	476.0
	<b>7/10/2017</b>	474.0

**Miami Fort**

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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<b>Location ID</b>	<b>Sample Date</b>	<b>B, tot, mg/L</b>	<b>Ca, tot, mg/L</b>	<b>Cl, tot, mg/L</b>	<b>F, tot, mg/L</b>	<b>pH (field), STD</b>	<b>SO4, tot, mg/L</b>
<b>MW-7</b>	<b>11/13/2017</b>	0.1000	121.0	7.480	<1.000	6.700	<100.0
<b>MW-8</b>	<b>12/9/2015</b>	2.040	125.0	52.20	0.2000	7.160	349.0
	<b>3/22/2016</b>	4.990	269.0	43.60	0.1780	7.120	437.0
	<b>6/21/2016</b>	2.040	147.0	<150.0	<1.000	7.080	371.0
	<b>9/14/2016</b>	1.230	123.0	48.50	<1.000	7.070	272.0
	<b>12/13/2016</b>	1.650	159.0	43.60	<1.000	7.080	363.0
	<b>3/7/2017</b>	1.770	151.0	47.20	<1.000	8.020	401.0
	<b>6/6/2017</b>	3.840	159.0	48.20	<1.000	6.720	383.0
	<b>7/10/2017</b>	3.070	139.0	47.80	<1.000	6.950	323.0
	<b>11/13/2017</b>	2.630	136.0	46.90	<1.000	6.630	295.0
<b>MW-9</b>	<b>12/9/2015</b>	4.810	144.0	77.20	0.5090	7.270	379.0
	<b>3/22/2016</b>	3.360	163.0	69.50	0.4450	7.060	341.0
	<b>6/22/2016</b>	3.500	139.0	65.60	<1.000	7.080	342.0
	<b>9/14/2016</b>	3.870	161.0	77.00	<1.000	7.100	399.0
	<b>12/13/2016</b>	5.160	184.0	84.20	<1.000	7.240	410.0
	<b>3/8/2017</b>	2.980	142.0	63.60	<1.000	8.970	383.0
	<b>6/6/2017</b>	2.710	176.0	62.30	<1.000	6.930	515.0
	<b>7/10/2017</b>	2.500	175.0	58.80	<1.000	6.930	381.0

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
<b>MW-7</b>	<b>11/13/2017</b>	483.0
<b>MW-8</b>	<b>12/9/2015</b>	816.0
	<b>3/22/2016</b>	1010.
	<b>6/21/2016</b>	843.0
	<b>9/14/2016</b>	691.0
	<b>12/13/2016</b>	833.0
	<b>3/7/2017</b>	910.0
	<b>6/6/2017</b>	822.0
	<b>7/10/2017</b>	751.0
	<b>11/13/2017</b>	733.0
<b>MW-9</b>	<b>12/9/2015</b>	876.0
	<b>3/22/2016</b>	848.0
	<b>6/22/2016</b>	806.0
	<b>9/14/2016</b>	854.0
	<b>12/13/2016</b>	815.0
	<b>3/8/2017</b>	814.0
	<b>6/6/2017</b>	849.0
	<b>7/10/2017</b>	866.0

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW-9	11/13/2017	2.440	157.0	64.50	<1.000	6.650	396.0

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**Table 1. Miami Fort Basin B: Appendix III Analytical Results**

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Location ID	Sample Date	TDS, mg/L
MW-9	11/13/2017	839.0

**Miami Fort**

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**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

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<b>Location ID</b>	<b>Sample Date</b>	<b>As, tot, mg/L</b>	<b>Ba, tot, mg/L</b>	<b>Be, tot, mg/L</b>	<b>Cd,tot, mg/L</b>	<b>Co, tot, mg/L</b>	<b>Cr, tot, mg/L</b>
<b>MW-1</b>	<b>12/8/2015</b>	0.002290	0.04840	<0.001000	<0.0004000	<0.0005000	<0.0005000
	<b>3/22/2016</b>	<0.002950	0.06020	<0.0008750	<0.0002500	<0.0005430	<0.002500
	<b>6/21/2016</b>	<0.001000	0.04520	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>9/13/2016</b>	<0.001000	0.05150	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>12/14/2016</b>	<0.001000	0.03710	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/7/2017</b>	<0.001000	0.03390	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	<0.001000	0.03730	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	<0.001000	0.03580	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-10</b>	<b>6/6/2017</b>	0.01610	0.1960	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	0.01690	0.2000	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-10S</b>	<b>12/9/2015</b>	0.004270	0.2950	<0.001000	<0.0004000	0.009410	0.0008540
	<b>3/23/2016</b>	0.03680	0.5690	<0.0008750	<0.0002500	0.008110	<0.002500
	<b>6/22/2016</b>	0.03530	0.4370	<0.001000	<0.001000	0.003730	<0.002000
	<b>9/14/2016</b>	0.03730	0.4290	<0.001000	<0.001000	0.003200	<0.002000
	<b>12/13/2016</b>	0.04810	0.4680	<0.001000	<0.001000	0.004080	<0.002000
	<b>3/8/2017</b>	0.02450	0.3500	<0.001000	<0.001000	0.003550	<0.002000
<b>MW-11</b>	<b>6/6/2017</b>	0.008740	0.2240	<0.001000	<0.001000	0.0008540	<0.002000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
<b>MW-1</b>	<b>12/8/2015</b>	0.3330	<0.0001000	0.07070	0.04050	0.0002220	0.5640
	<b>3/22/2016</b>	0.3730	<0.0001000	0.06160	0.05130	<0.0004330	0.3940
	<b>6/21/2016</b>	<1.000	<0.0002000	<0.05000	0.03530	<0.001000	0.2370
	<b>9/13/2016</b>	<1.000	<0.0002000	0.05300	0.04050	<0.001000	0.5560
	<b>12/14/2016</b>	<1.000	<0.0002000	0.05900	0.05020	<0.001000	0.04930
	<b>3/7/2017</b>	<1.000	<0.0002000	<0.05000	0.04060	<0.001000	0.1860
	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	0.03570	<0.001000	0.1780
	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	0.03900	<0.001000	0.1120
<b>MW-10</b>	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	1.080
	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	1.140
<b>MW-10S</b>	<b>12/9/2015</b>	0.1500	<0.0001000	0.004320	0.003950	0.0004880	0.7420
	<b>3/23/2016</b>	0.2240	<0.0001000	0.004400	0.007550	0.0005050	1.790
	<b>6/22/2016</b>	<1.000	<0.0002000	<0.05000	0.005010	<0.001000	1.100
	<b>9/14/2016</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	1.060
	<b>12/13/2016</b>	<1.000	<0.0002000	<0.05000	0.006270	<0.001000	0.8900
	<b>3/8/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.8310
	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.8110

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>Sb, tot, mg/L</b>	<b>Se, tot, mg/L</b>	<b>Tl, tot, mg/L</b>
<b>MW-1</b>	<b>12/8/2015</b>	<0.0005000	<0.0006000	<0.0005000
	<b>3/22/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/21/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/7/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-10</b>	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-10S</b>	<b>12/9/2015</b>	0.0006370	0.0006700	<0.0005000
	<b>3/23/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/22/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>As, tot, mg/L</b>	<b>Ba, tot, mg/L</b>	<b>Be, tot, mg/L</b>	<b>Cd,tot, mg/L</b>	<b>Co, tot, mg/L</b>	<b>Cr, tot, mg/L</b>
<b>MW-11</b>	<b>7/10/2017</b>	0.009260	0.2110	<0.001000	<0.001000	0.001220	<0.002000
<b>MW-11S</b>	<b>12/9/2015</b>	0.008960	0.3250	<0.001000	<0.0004000	0.006940	0.001040
	<b>3/23/2016</b>	0.04920	0.4860	<0.0008750	<0.0002500	0.008030	<0.002500
	<b>6/22/2016</b>	0.03770	0.3530	<0.001000	<0.001000	0.006300	0.002530
	<b>9/14/2016</b>	0.05380	0.3490	<0.001000	<0.001000	0.005040	<0.002000
	<b>12/14/2016</b>	0.05020	0.3530	<0.001000	<0.001000	0.004810	0.002870
	<b>3/8/2017</b>	0.05840	0.3840	<0.001000	<0.001000	0.005110	0.002880
<b>MW-2</b>	<b>12/9/2015</b>	0.03090	0.5160	<0.001000	<0.0004000	0.001670	0.002880
	<b>3/22/2016</b>	0.04690	0.6200	<0.0008750	<0.0002500	0.0007300	<0.002500
	<b>6/22/2016</b>	0.03200	0.4620	<0.001000	<0.001000	0.002060	<0.002000
	<b>9/14/2016</b>	0.03620	0.4640	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>12/13/2016</b>	0.03400	0.4440	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/8/2017</b>	0.02700	0.4160	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	0.03500	0.4740	<0.001000	<0.001000	0.0007630	<0.002000
	<b>7/10/2017</b>	0.03680	0.4380	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-3A</b>	<b>12/9/2015</b>	0.005400	0.1240	<0.001000	<0.0004000	0.0007170	0.0008220
	<b>3/22/2016</b>	0.008880	0.1860	<0.0003500	<0.0001000	0.0002220	<0.001000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>F, tot, mg/L</b>	<b>Hg, tot, mg/L</b>	<b>Li, tot, mg/L</b>	<b>Mo, tot, mg/L</b>	<b>Pb, tot, mg/L</b>	<b>Ra-226,228, tot, pCi/L</b>
<b>MW-11</b>	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.6540
<b>MW-11S</b>	<b>12/9/2015</b>	0.2660	<0.0001000	<0.004000	0.005690	0.0007200	0.6800
	<b>3/23/2016</b>	0.4000	<0.0001000	0.003570	0.005680	0.001140	1.440
	<b>6/22/2016</b>	<1.000	<0.0002000	<0.05000	0.006510	0.001910	1.730
	<b>9/14/2016</b>	<1.000	<0.0002000	<0.05000	0.005520	0.001320	0.9690
	<b>12/14/2016</b>	<1.000	<0.0002000	<0.05000	<0.005000	0.002250	2.420
	<b>3/8/2017</b>	<1.000	0.0005770	<0.05000	0.005320	0.002720	1.370
<b>MW-2</b>	<b>12/9/2015</b>	0.1150	<0.0001000	0.004950	0.0009420	0.003150	1.540
	<b>3/22/2016</b>	0.1840	<0.0001000	0.004360	<0.002500	0.001300	2.190
	<b>6/22/2016</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7050
	<b>9/14/2016</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.9290
	<b>12/13/2016</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	1.580
	<b>3/8/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7520
	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	0.001650	0.7350
	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.5860
<b>MW-3A</b>	<b>12/9/2015</b>	0.1690	<0.0001000	<0.004000	0.001470	0.0009360	0.5750
	<b>3/22/2016</b>	0.2030	<0.0001000	0.003630	<0.001000	0.0005880	0.8990

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>Sb, tot, mg/L</b>	<b>Se, tot, mg/L</b>	<b>Tl, tot, mg/L</b>
<b>MW-11</b>	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-11S</b>	<b>12/9/2015</b>	<0.0005000	0.001070	<0.0005000
	<b>3/23/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/22/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-2</b>	<b>12/9/2015</b>	<0.0005000	0.0006770	<0.0005000
	<b>3/22/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/22/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	0.002400	<0.005000	<0.001000
<b>MW-3A</b>	<b>12/9/2015</b>	<0.0005000	<0.0006000	<0.0005000
	<b>3/22/2016</b>	<0.001670	<0.001590	<0.0005500

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>As, tot, mg/L</b>	<b>Ba, tot, mg/L</b>	<b>Be, tot, mg/L</b>	<b>Cd,tot, mg/L</b>	<b>Co, tot, mg/L</b>	<b>Cr, tot, mg/L</b>
<b>MW-3A</b>	<b>6/22/2016</b>	0.006140	0.1350	<0.001000	<0.001000	0.0009890	<0.002000
	<b>9/14/2016</b>	0.005310	0.1270	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>12/13/2016</b>	0.005520	0.1230	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/8/2017</b>	0.004590	0.1090	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	0.008470	0.1520	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	0.007320	0.1410	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-7</b>	<b>12/8/2015</b>	0.001430	0.09970	<0.001000	<0.0004000	<0.0005000	0.0005740
	<b>3/22/2016</b>	<0.002950	0.1330	<0.0008750	<0.0002500	<0.0005430	<0.002500
	<b>6/21/2016</b>	<0.001000	0.1110	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>9/13/2016</b>	<0.001000	0.09970	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>12/14/2016</b>	<0.001000	0.09960	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/8/2017</b>	<0.001000	0.08740	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	<0.001000	0.09690	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	<0.001000	0.09030	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-8</b>	<b>12/9/2015</b>	0.001530	0.03240	<0.001000	<0.0004000	0.0005680	<0.0005000
	<b>3/22/2016</b>	<0.002950	0.04560	<0.0008750	<0.0002500	<0.0005430	<0.002500
	<b>6/21/2016</b>	<0.001000	0.03740	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>9/14/2016</b>	<0.001000	0.03890	<0.001000	<0.001000	<0.0005000	<0.002000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

Location ID	Sample Date	F, tot, mg/L	Hg, tot, mg/L	Li, tot, mg/L	Mo, tot, mg/L	Pb, tot, mg/L	Ra-226,228, tot, pCi/L
MW-3A	6/22/2016	<1.000	<0.0002000	<0.05000	<0.005000	0.001180	0.3660
	9/14/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.1460
	12/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.9120
	3/8/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.5810
	6/6/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.6170
	7/10/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.4550
MW-7	12/8/2015	0.1190	<0.0001000	0.008200	0.002310	<0.0002000	0.4480
	3/22/2016	0.1280	<0.0001000	0.009490	<0.002500	<0.0004330	0.4640
	6/21/2016	<10.00	<0.0002000	<0.05000	<0.005000	<0.001000	0.3830
	9/13/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.6700
	12/14/2016	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.7350
	3/8/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.4110
	6/6/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.5040
	7/10/2017	<1.000	<0.0002000	<0.05000	<0.005000	<0.001000	0.3860
MW-8	12/9/2015	0.2000	<0.0001000	0.01240	<0.0005000	<0.0002000	0.8730
	3/22/2016	0.1780	<0.0001000	0.03440	0.009740	<0.0004330	0.8620
	6/21/2016	<1.000	<0.0002000	<0.05000	0.009380	<0.001000	0.5270
	9/14/2016	<1.000	<0.0002000	<0.05000	0.007530	<0.001000	0.3740

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>Sb, tot, mg/L</b>	<b>Se, tot, mg/L</b>	<b>Tl, tot, mg/L</b>
<b>MW-3A</b>	<b>6/22/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	0.002040	<0.005000	<0.001000
<b>MW-7</b>	<b>12/8/2015</b>	<0.0005000	0.0007400	<0.0005000
	<b>3/22/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/21/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-8</b>	<b>12/9/2015</b>	<0.0005000	<0.0006000	<0.0005000
	<b>3/22/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/21/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>As, tot, mg/L</b>	<b>Ba, tot, mg/L</b>	<b>Be, tot, mg/L</b>	<b>Cd,tot, mg/L</b>	<b>Co, tot, mg/L</b>	<b>Cr, tot, mg/L</b>
<b>MW-8</b>	<b>12/13/2016</b>	<0.001000	0.04400	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/7/2017</b>	<0.001000	0.03410	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	<0.001000	0.03520	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	<0.001000	0.03470	<0.001000	<0.001000	<0.0005000	<0.002000
<b>MW-9</b>	<b>12/9/2015</b>	0.002320	0.1370	<0.001000	<0.0004000	0.0007100	0.0007760
	<b>3/22/2016</b>	<0.002950	0.1130	<0.0008750	<0.0002500	<0.0005430	<0.002500
	<b>6/22/2016</b>	<0.001000	0.1180	<0.001000	<0.001000	0.0007610	<0.002000
	<b>9/14/2016</b>	<0.001000	0.1190	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>12/13/2016</b>	<0.001000	0.1190	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>3/8/2017</b>	<0.001000	0.07730	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>6/6/2017</b>	<0.001000	0.08950	<0.001000	<0.001000	<0.0005000	<0.002000
	<b>7/10/2017</b>	<0.001000	0.1160	<0.001000	<0.001000	<0.0005000	<0.002000

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

<b>Location ID</b>	<b>Sample Date</b>	<b>F, tot, mg/L</b>	<b>Hg, tot, mg/L</b>	<b>Li, tot, mg/L</b>	<b>Mo, tot, mg/L</b>	<b>Pb, tot, mg/L</b>	<b>Ra-226,228, tot, pCi/L</b>
<b>MW-8</b>	<b>12/13/2016</b>	<1.000	<0.0002000	<0.05000	0.007650	<0.001000	0.6380
	<b>3/7/2017</b>	<1.000	<0.0002000	<0.05000	0.005730	<0.001000	0.6450
	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	0.006740	<0.001000	0.6980
	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	0.006880	<0.001000	0.4760
<b>MW-9</b>	<b>12/9/2015</b>	0.5090	<0.0001000	0.01410	0.07720	0.0006440	0.3880
	<b>3/22/2016</b>	0.4450	<0.0001000	0.01100	0.05570	<0.0004330	0.3090
	<b>6/22/2016</b>	<1.000	<0.0002000	<0.05000	0.07950	<0.001000	0.3480
	<b>9/14/2016</b>	<1.000	<0.0002000	<0.05000	0.07430	<0.001000	0.4790
	<b>12/13/2016</b>	<1.000	<0.0002000	<0.05000	0.08030	<0.001000	0.3060
	<b>3/8/2017</b>	<1.000	<0.0002000	<0.05000	0.05400	<0.001000	0.2360
	<b>6/6/2017</b>	<1.000	<0.0002000	<0.05000	0.07150	<0.001000	0.1680
	<b>7/10/2017</b>	<1.000	<0.0002000	<0.05000	0.07040	<0.001000	0.2270

**Miami Fort**

January 30, 2018

**Table 2. Miami Fort Basin B: Appendix IV Analytical Results**

5:47:00 PM

Location ID	Sample Date	Sb, tot, mg/L	Se, tot, mg/L	Tl, tot, mg/L
<b>MW-8</b>	<b>12/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/7/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000
<b>MW-9</b>	<b>12/9/2015</b>	<0.0005000	<0.0006000	<0.0005000
	<b>3/22/2016</b>	<0.004180	<0.003980	<0.001380
	<b>6/22/2016</b>	<0.002000	<0.005000	<0.001000
	<b>9/14/2016</b>	<0.002000	<0.005000	<0.001000
	<b>12/13/2016</b>	<0.002000	<0.005000	<0.001000
	<b>3/8/2017</b>	<0.002000	<0.005000	<0.001000
	<b>6/6/2017</b>	<0.002000	<0.005000	<0.001000
	<b>7/10/2017</b>	<0.002000	<0.005000	<0.001000

MIAMI FORT BASIN B  
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT



Figures



GROUNDWATER SAMPLING WELL LOCATION MAP  
MIAMI FORT BASIN B  
UNIT ID: 112

2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
DYNEGY CCR RULE GROUNDWATER MONITORING  
MIAMI FORT POWER STATION  
NORTH BEND, OHIO

DRAWN BY/DATE:  
SDS 12/21/17  
REVIEWED BY/DATE:  
KLT 12/21/17  
APPROVED BY/DATE:  
SJC 1/25/18

PROJECT NO: 67720

FIGURE NO: 1



**OBG**

THERE'S A WAY

