

January 29, 2021

ATC Group Services LLC

7988 Centerpoint Dr. Suite 100 Indianapolis, IN 46256

Phone+1 317 849 4990Fax+1 317 849 4278

www.atcgroupservices.com

Mr. David M. Heger Senior Counsel AES US Services, LLC One Monument Circle, Suite 701A Indianapolis, Indiana 46204-2901

Re: 2020 CCR Annual Groundwater Monitoring and Corrective Action Report Indianapolis Power & Light Company Petersburg Generating Station – Ash Pond System Petersburg, Indiana ATC Project No. 170LF00871

Dear Mr. Heger:

ATC Group Services LLC (ATC) has prepared this 2020 CCR Annual Groundwater Monitoring and Corrective Action Report for the ash pond system at Indianapolis Power & Light Company's (IPL) Petersburg Generating Station located outside Petersburg, Pike County, Indiana. This report has been prepared to comply with reporting requirements described in the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule § 257.90(e). This annual report documents the status of the groundwater monitoring and corrective action program for the ash pond system and includes information required by § 257.90(e)(1) through § 257.90(e)(6).

Federal CCR Rule § 257.90(e)(6) specifies the following:

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 § 257.95; (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e): (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and (B) Provide the date when the assessment monitoring program was initiated for the CCR unit. (iv) If it was determined that there was a statistically significant level above the

groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following: (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase; (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit; (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and (D) Provide the date when the assessment of corrective measures 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; and (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

Overview of 2020 Groundwater Monitoring and Corrective Action

At the beginning and end of the 2020 reporting period, the CCR units were operating under the Assessment Monitoring Program in § 257.95. Pursuant to 40 CFR 257.94(e)(2), 257.94(e)(3) and 257.95(b), the facility had previously established an Assessment Monitoring Program in accordance with the requirements of § 257.95 on July 16, 2018. Therefore, evaluation of statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e) was not performed.

At the end of the 2020 reporting period, associated with the May 2020 monitoring event as November 2020 sampling data was not finalized in 2020, it was determined that the following Appendix IV constituents were at statistically significant levels (SSLs) above the associated groundwater protection standards (GWPS) pursuant to § 257.95(g). The May 2020 SSLs are as follows:

<u>Cadmium</u>

Shallow: AP-8¹

<u>Cobalt</u>

Shallow: AP-8²

Molybdenum

Deep: AP-2A

The above listed May 2020 SSLs are not new constituent SSLs and were previously identified. Therefore, no new SSL notification was required pursuant to § 257.94(e).

¹ An Alternate Source Demonstration (ASD) was successfully completed pursuant to § 257.95(g)(3)(ii) in October 2019 for total cadmium in monitoring well AP-8. The ASD report was provided as an attachment to the 2019 CCR Annual Groundwater Monitoring and Corrective Action Report dated January 30, 2020 for the Petersburg Generating Station – Ash Pond System.

² An ASD was successfully completed pursuant to § 257.95(g)(3)(ii) in October 2019 for total cobalt in monitoring well AP-8. The ASD report was provided as an attachment to the 2019 CCR Annual Groundwater Monitoring and Corrective Action Report dated January 30, 2020 for the Petersburg Generating Station – Ash Pond System.

The assessment of corrective measures was initiated for the CCR unit on April 15, 2019 in response to SSLs of Appendix IV constituents exceeding GWPS. Pursuant to 40 CFR §257.96(a), a demonstration of need for a 60-day extension for the assessment of corrective measures was completed on July 12, 2019. The Corrective Measures Assessment (CMA) Report was completed and placed in the facility operating record on September 13, 2019 and subsequently amended on October 11, 2019. A public meeting was not held for the assessment of corrective measures for the CCR units in 2020 as nature and extent work is still ongoing at the facility in order to characterize the extent of the contamination plume and further support the CMA. A remedy was not selected pursuant to § 257.97 during the 2020 reporting period. Remedial activities were not initiated pursuant to § 257.98 during the 2020 reporting period.

Federal CCR Rule § 257.90(e) specifies the following:

For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2019, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

The following key actions have been completed in 2020 to comply with the CCR Rule:

- Efforts to determine the nature and extent (N&E) of the Appendix IV SSLs continued pursuant to § 257.95(g) including but not limited to the utilization of transducers in several wells to assist in the evaluation of groundwater flow across the site, review of groundwater analytical results/data to improve the groundwater site conceptual model, and modeling to support the CMA.
- Semi-annual assessment monitoring sampling events were conducted in 2020 as required by § 257.95(b) and § 257.95(d)(1). Subsequent SSLs evaluation of the November 2019 and May 2020 data were performed within 90 days of completing the sampling and analysis pursuant to § 257.93(h)(2).
- Semi-Annual Remedy Selection Progress Reports pursuant to § 257.97(a) for the period of September 13, 2019 through March 13, 2020, and for the period of March 14, 2020 through September 12, 2020 were completed and placed in the facility's operating record and posted to IPLs CCR Website.

To report on the activities conducted during the prior calendar year and document compliance with the CCR Rule, the specific requirements listed in § 257.90(e)(1) through § 257.90(e)(5) are provided below in bold/italic type followed by a short narrative addressing how that specific requirement has been met.

At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

§ 257.90(e)(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;

IPL operates the Petersburg Station located approximately four miles north of Petersburg, Indiana. It is located at 6925 North State Road 57, Petersburg, Indiana. A Site Location Map is provided as Figure 1. A map showing the location of each CCR management unit, associated upgradient and downgradient CCR monitoring wells, and N&E monitoring equipment installed in 2019 and 2020 is provided as Figure 2.

§ 257.90(e)(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;

The CCR groundwater monitoring system at the Petersburg Ash Pond System consists of seventeen (17) monitoring wells: three (3) upgradient monitoring wells MW-2R, MW-3, and MW-4C and fourteen (14) downgradient monitoring wells; AP-1R, AP-2A, AP-2BO, AP-3, AP-3A, AP-4A, AP-4B, AP-4I, AP-5, AP-5A, AP-6A, AP-6B, AP-7, and AP-8.

In addition to the CCR ash pond groundwater monitoring system, five (5) N&E wells (AP-9A, AP-10A, MW-19B, MW-19I, and MW-19A) and three piezometers (P-4 2019, IAPZ-1, and AP-11A) were installed in 2019. Monitoring Wells MW-19B, MW-19I and MW-19B were installed at the facility boundary pursuant to § 257.95(g)(1)(iii). These wells were installed to characterize the nature and extent of the contamination plume and to support the CMA.

To characterize the N&E of the release and any relevant site condition that may affect the remedy ultimately selected, as required by § 257.95(g)(1), additional investigation activities were completed in 2020 as follows:

- Four (4) nested piezometers (APA-PW-1B, APA-PW-1S, APA-PW-2B, APA-PW-2S, APA-PW-3B, APA-PW-3S, APA-PW-4B, and APA-PW-4S) were installed within the limits of Ash Pond A in January 2020 to provide data to refine the understanding of the vertical groundwater flow characteristics and solute transport. It is noted that a fifth piezometer nest (comprised of P-4 and IAPZ-1) was previously installed in Pond A in 2019.
- Two nested piezometers (PZ-1A, PZ-1B, PZ-1I, PZ-2A, PZ-2B and PZ-2I) were installed adjacent to the discharge canal downgradient of the Ash Pond System in April 2020.

• IPL installed an additional N&E monitoring well nest (MW-20A, MW-20I, and MW-20B) along the White River in April 2020 to better define the lateral extent of Appendix IV constituents.

The location of the CCR groundwater monitoring well network and N&E wells/piezometers are depicted on Figure 2. No monitoring wells were abandoned during the 2020 reporting period.

§ 257.90(e)(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;

Table 1 provides a summary of the number of samples collected at each CCR monitoring well and N&E well, sampling dates, and designation of whether samples were required by the detection or assessment monitoring program. Groundwater elevation data is provided in Table 2. Assessment Monitoring groundwater analytical results for the November 2019 sampling event are summarized in Table 3; these results were not finalized by the end of 2019 for inclusion in the associated 2020 Annual Report. Assessment Monitoring groundwater analytical results for the May 2020 sampling event is summarized in Table 4. N&E sampling results for the June 2020 sampling event are summarized in Table 5. Assessment Monitoring groundwater results for the November 2020 sampling event are summarized in Table 5. Assessment Monitoring groundwater results for the November 2020 sampling event are summarized in Table 5. Assessment Monitoring groundwater results for the November 2020 sampling event are summarized in Table 5. Assessment Monitoring groundwater results for the November 2020 sampling event are summarized in Table 5. Assessment Monitoring groundwater results for the November 2020 sampling event and December 2020 N&E event were not finalized in 2020 and therefore are not included with this report.

§ 257.90(e)(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);

IPL Petersburg operated under the assessment monitoring program in accordance with § 257.95. No transition between monitoring programs was conducted in 2020.

During 2020, statistical evaluations of the November 2019 and May 2020 analytical data was performed in order to determine whether there was a SSL of a new Appendix IV constituent detected above the relevant groundwater protection standards (GWPS) in accordance with § 257.95(g) and 257.93(h). The evaluations were completed in March 2020 and September 2020, respectively. Based on the evaluations, it was determined that the Appendix IV constituents that exceeded the GWPS include cadmium, cobalt, and molybdenum; however, these are the same constituent SSLs previously identified. Since there were no new Appendix IV constituents identified, an additional notification was not triggered pursuant to 40 CFR 257.95(g).

§ 257.90(e)(5) Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

Table 6A and Table 6B summarize the groundwater protection standards established in accordance with § 257.95(d)(2) and § 257.95(h) associated with the November 2019 and May 2020 semi-annual assessment monitoring events, respectively.

Projected key activities for the upcoming year include the following:

- Assessment monitoring sampling events in accordance with § 257.95.
- Finalize November 2020 analytical data. Completion of statistical evaluation of November 2020 analytical data to determine whether there is a SSL above GWPS for Appendix IV constituents in accordance with § 257.95(g) and 257.93(h). Perform SSL evaluations of final May 2021 assessment monitoring analytical data.
- Continue N&E work pursuant to § 257.95(g).
- Prepare semi-annual report(s) describing progress in selecting and designing the remedy pursuant to § 257.97(a).
- Abandon five (5) nested piezometers (APA-PW-1B, APA-PW-1S, APA-PW-2B, APA-PW-2S, APA-PW-3B, APA-PW-3S, APA-PW-4B, APA-PW-4S, P-4 and IAPZ-1) within the limits of Ash Pond A.

We appreciate the opportunity to assist with IPL's CCR Rule groundwater monitoring program at Petersburg Station's ash pond system. Please contact either of the undersigned at 317.849.4990 if you have any questions regarding this report.

Sincerely, ATC Group Services LLC

Mark E. Breting

Mark E. Breting, L.P.G. Senior Project Geologist

Copies: Ms. Nysa Hogue Mr. Erwin Leidolf

Pulut J. Duren

Robert T. Duncan, L.P.G. Senior Project Geologist

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 Groundwater Protection Standards Summary November 2019
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Well Sampling Summary Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program	
MW-2 (2R)	MW-2 - 1986	Upgradient	2	5/13/2020	Assessment	
	MW-2R - 2/1/2017	opgradient	۷.	11/3/2020	Assessment	
M\M_3	1086	Ungradient	2	5/13/2020	Assessment	
10100-5	1900	Opgradient	2	11/3/2020	Assessment	
MW-4C	0/20/1002	Ungradient	2	5/13/2020	Assessment	
10100-40	9/29/1992	Opgradient	2	11/3/2020	Assessment	
	4/5/2016	Downgradient	2	5/12/2020	Assessment	
AF - 11X	4/3/2010	Downgradient	2	11/9/2020	Assessment	
	6/11/2014	Downgradiant	2	5/11/2020	Assessment	
AF-2A	0/11/2014	Downgradient	2	11/9/2020	Assessment	
	4/5/2016	Downgradiant	2	5/11/2020	Accoment	
AP-260	4/5/2016	Downgradient	Z	11/9/2020	Assessment	
	6/0/2014	Downgradiant	2	5/11/2020	Accoment	
AF-3	0/9/2014	Downgradient	2	11/7/2020	Assessment	
	5/12/2015	Downgradient	2	5/11/2020	Assessment	
AF-3A	5/15/2015	Downgradient	2	11/7/2020		
	6/16/2014	16/2014 Downgradient	2	5/7/2020	Assessment	
Ar-4A	0/10/2014	Downgradient	2	11/7/2020		
Δ. Ρ _//Ι	6/16/2014	Downgradient	2	5/7/2020	Assessment	
AI -41	0/10/2014	Downgradient	2	11/7/2020	Assessment	
	6/17/2014	Downgradient	2	5/7/2020	Assessment	
	0/17/2014	Downgradient	2	11/7/2020	Assessment	
Δ Ρ -5	6/17/2014	Downgradient	2	5/7/2020	Assessment	
Ai -5	0/17/2014	Downgradient	2	11/7/2020	Assessment	
	5/12/2015	Downgradient	2	5/7/2020	Assessment	
AF-JA	5/12/2015	Downgradient	2	11/7/2020	Assessment	
	6/17/2014	Downgradient	2	5/7/2020	Assessment	
	0/17/2014	Downgradient	2	11/7/2020	Assessment	
	6/18/2014	Downgradient	0	5/7/2020	Assessment	
	0/10/2014		۷	11/7/2020	Assessment	
	6/10/2014	Downgradiant	0	5/12/2020	Assessment	
Ar-1	0/10/2014	Downgradient	2	11/5/2020	Assessment	

Well Sampling Summary Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program	
ΔP-8	6/10/2014	Downgradient	2	5/11/2020	Assessment	
Ai -0	0/10/2014	Downgradient	2	11/5/2020	Assessment	
	5/30/2010	Natura & Extent	2	5/6/2020	Assessment	
71-37	5/50/2019		2	11/6/2020	Assessment	
	9/2/2010	Noturo 8 Extent	2	5/6/2020	Accossment	
AF-TUA	0/2/2019		2	11/6/2020	Assessment	
MW/ 10B	8/1/2010	8/1/2019 Nature & Extent		5/6/2020	Assessment	
10100-190	0/1/2019		2	11/6/2020	Assessment	
M\\\/ 10I	8/1/2010	Naturo & Extent	2	5/6/2020	Assessment	
10100-131	0/1/2019		2	11/6/2020	Assessment	
M/M/ 10A	8/1/2010	Naturo & Extent	2	5/6/2020	Assessment	
WW-19A	0/1/2019		2	11/6/2020	Assessment	
	4/21/2020	Natura & Extent	2	6/25/2020	Assessment	
10100-200	4/21/2020		2	11/6/2020	Assessment	
	4/21/2020	Naturo & Extent	2	6/26/2020	Assessment	
10100-201	4/21/2020		2	11/6/2020	Assessment	
M/M/ 20A	4/22/2020	Natura 8 Extant	2	6/26/2020	Accomment	
WW-20A	4/22/2020		۷	11/6/2020	ASSESSITIETII	

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	5/4/2020	442.00	29.94	413.14
	11/2/2020	443.00	36.27	406.81
	5/4/2020		26.62	411.25
AP-2A	6/11/2020	437.87	27.34	410.53
	11/2/2020		31.96	405.91
	5/4/2020	136.86	25.53	411.33
AF-200	11/2/2020	430.00	30.76	406.10
	3/3/2020		5.30	416.29
AP-3	5/4/2020	421.59	9.48	412.11
	11/2/2020		15.12	406.47
	3/3/2020		6.10	415.46
AP-3A	5/4/2020	421.56	10.30	411.26
	11/2/2020		15.90	405.66
	3/3/2020		6.03	415.66
AP-4A	5/4/2020	421.69	10.26	411.43
	11/2/2020		15.99	405.70
	3/3/2020		6.10	415.72
AP-4I	5/4/2020	421.82	10.33	411.49
	11/2/2020		16.06	405.76
	3/3/2020		6.04	415.68
AP-4B	5/4/2020	421.72	10.25	411.47
	11/2/2020		16.04	405.68
	3/3/2020		6.03	415.98
AP-5	5/4/2020	422.01	10.64	411.37
	11/2/2020		14.88	407.13
	3/3/2020		6.43	416.09
AP-5A	5/4/2020	422.52	11.02	411.50
	11/2/2020		15.11	407.41
	3/3/2020		7.90	416.43
AP-6A	5/4/2020	424.33	12.36	411.97
	11/2/2020		16.75	407.58
	3/3/2020		7.80	416.60
AP-6B	5/4/2020	424.4	12.34	412.06
	11/2/2020		16.79	407.61

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	3/3/2020		9.51	425.11
AP-7	5/4/2020	434.62	11.02	423.60
	11/2/2020		11.52	423.10
	3/3/2020		2.98	441.22
AP-8	5/4/2020	444.20	3.25	440.95
	11/2/2020		6.75	437.45
	4/16/2020		12.13	442.87
MW-2 (2R)	5/4/2020	455.00	12.66	442.34
	11/2/2020		18.20	436.80
	4/16/2020		9.32	441.39
MW-3	5/4/2020	450.71	9.37	441.34
	11/2/2020		9.87	440.84
	4/16/2020		5.59	448.85
MW-4C	5/4/2020	454.44	5.30	449.14
	11/2/2020		5.20	449.24
	3/3/2020		21.35	415.48
AP-9A	5/4/2020	436.83	25.64	411.19
	11/2/2020		30.51	406.32
	3/3/2020		7.39	415.02
AP-10A	5/4/2020	422.41	11.70	410.71
	11/2/2020		16.16	406.25
AP-11A	5/4/2020	424.64	12.85	411.79
	3/3/2020		6.36	415.15
MW-19B	5/4/2020	421.51	10.81	410.70
	11/2/2020		13.90	407.61
	3/3/2020		6.18	415.10
MW-19I	5/4/2020	421.28	10.78	410.50
	11/2/2020		13.60	407.68
	3/3/2020		6.31	415.10
MW-19A	5/4/2020	421.41	10.87	410.54
	11/2/2020		13.70	407.71

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	5/15/2020		15.29	408.94
	5/22/2020		6.10	418.13
	5/29/2020		9.50	414.73
	6/5/2020		11.53	412.70
	6/12/2020		14.88	409.35
	6/19/2020	404.00	16.80	407.43
IVIVV-20A	6/26/2020	424.23	16.70	407.53
	7/2/2020		16.93	407.30
	7/10/2020		17.52	406.71
	7/21/2020		18.41	405.82
	8/21/2020		17.08	407.15
	11/2/2020		15.61	408.62
	5/15/2020		15.00	409.00
	5/22/2020		5.75	418.25
	5/29/2020		9.23	414.77
	6/5/2020		11.24	412.76
	6/12/2020		14.60	409.40
	6/19/2020	404.00	16.33	407.67
10100-201	6/26/2020	424.00	17.38	406.62
	7/2/2020		16.74	407.26
	7/10/2020		17.26	406.74
	7/21/2020		18.19	405.81
	8/21/2020		16.81	407.19
	11/2/2020		15.41	408.59
	5/15/2020		15.83	408.14
	5/22/2020		5.87	418.10
	5/29/2020		9.07	414.90
	6/5/2020		11.09	412.88
	6/12/2020		14.45	409.52
	6/19/2020	402.07	16.25	407.72
IVIVV-20D	6/26/2020	423.97	17.33	406.64
	7/2/2020		16.83	407.14
	7/10/2020		17.15	406.82
	7/21/2020		18.20	405.77
	8/21/2020		16.90	407.07
	11/2/2020		15.53	408.44

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	4/9/2020	450.77	34.93	415.84
	5/4/2020	450.77	37.74	413.03
P-4	6/11/2020	450.77	38.35	412.42
	9/1/2020	450.77	41.12	409.65
	11/2/2020	461.08	53.28	407.80
	4/9/2020	450.61	21.43	429.18
	5/4/2020	450.61	23.45	427.16
	9/1/2020	450.61	422.63	
	11/2/2020	460.83	39.20	421.63
	5/15/2020		13.36	410.27
	5/22/2020		6.50	417.13
	5/29/2020		8.13	415.50
	6/5/2020		9.99	413.64
	6/12/2020		12.87	410.76
	6/19/2020		14.30	409.33
PZ-1A	6/26/2020	423.63	15.25	408.38
	7/2/2020		15.60	408.03
	7/10/2020		15.48	408.15
	7/21/2020		16.28	407.35
	8/21/2020		14.61	409.02
	11/2/2020		17.12	406.51
	11/23/2020		17.34	406.29
	5/15/2020		13.50	410.19
	5/22/2020		6.59	417.10
	5/29/2020		8.25	415.44
	6/5/2020		10.15	413.54
	6/12/2020		13.01	410.68
	6/19/2020		14.41	409.28
PZ-1I	6/26/2020	423.69	15.35	408.34
	7/2/2020		15.71	407.98
	7/10/2020		15.58	408.11
	7/21/2020		16.40	407.29
	8/21/2020		14.70	408.99
	11/2/2020		17.21	406.48
	11/23/2020		17.46	406.23

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	5/15/2020		12.35	410.19
	5/22/2020		5.45	417.09
	5/29/2020		7.09	415.45
	6/5/2020		8.98	413.56
	6/12/2020		11.85	410.69
	6/19/2020		13.28	409.26
PZ-1B	6/26/2020	422.54	14.21	408.33
	7/2/2020		14.64	407.90
	7/10/2020		14.44	408.10
	7/21/2020		15.23	407.31
	8/21/2020		13.60	408.94
	11/2/2020		16.05	406.49
	11/23/2020		16.31	406.23
	5/15/2020		13.81	408.74
	5/22/2020		4.15	418.40
	5/29/2020		8.10	414.45
	6/5/2020		10.11	412.44
	6/12/2020		13.47	409.08
D7 2A	6/19/2020	100 55	15.11	407.44
Γ Δ- ΖΑ	6/26/2020	422.00	16.08	406.47
	7/2/2020		15.22	407.33
	7/10/2020		16.02	406.53
	7/21/2020		16.81	405.74
	8/21/2020		15.84	406.71
	11/2/2020		13.28	409.27

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	5/15/2020		14.28	408.74
	5/22/2020		4.57	418.45
	5/29/2020		8.53	414.49
	6/5/2020		10.59	412.43
	6/12/2020		13.92	409.10
P7_21	6/19/2020	123 02	15.59	407.43
F Z- ZI	6/26/2020	423.02	16.55	406.47
	7/2/2020		15.71	407.31
	7/10/2020		16.46	406.56
	7/21/2020		17.30	405.72
	8/21/2020		16.10	406.92
	11/2/2020		14.22	408.80
	5/15/2020		14.66	408.84
	5/22/2020		4.91	418.59
	5/29/2020		8.97	414.53
	6/5/2020		10.99	412.51
	6/12/2020		14.32	409.18
D7 2B	6/19/2020	123 50	15.98	407.52
FZ-ZD	6/26/2020	423.30	16.97	406.53
	7/2/2020		16.29	407.21
	7/10/2020		16.85	406.65
	7/21/2020		17.76	405.74
	8/21/2020		16.47	407.03
	11/2/2020		14.81	408.69
	4/10/2020		43.42	415.00
	5/4/2020		45.95	412.47
PW-APA-1B	6/11/2020	458.42	46.35	412.07
	9/1/2020		45.45	412.97
	11/2/2020		51.17	407.25
	4/10/2020		30.20	427.41
	5/4/2020		31.89	425.72
PW-APA-1S	6/11/2020	457.61	32.71	424.90
	9/1/2020		35.85	421.76
	11/2/2020		35.06	422.55

Groundwater Elevation Data Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
	4/10/2020		38.16	406.53
	5/4/2020	444.60	40.60	404.09
PW-APA-2B	6/11/2020	444.09	40.89	403.80
	9/1/2020		44.55	400.14
	11/2/2020	452.37	45.62	406.75
	4/10/2020		27.62	419.57
	5/4/2020	447 10	30.32	416.87
PW-APA-2S	6/11/2020	447.19	31.96	415.23
	9/1/2020		35.17	412.02
	11/2/2020	452.59	36.96	415.63
	4/9/2020		28.93	416.29
	5/4/2020	115 22	31.97	413.25
PW-APA-3B	6/11/2020	445.22	32.28	412.94
-	9/1/2020		40.98	404.24
	11/2/2020	449.05	42.02	407.03
	4/9/2020		18.91	426.21
	5/4/2020	115 12	19.95	425.17
PW-APA-3S	6/11/2020	445.12	20.90	424.22
	9/1/2020		28.85	416.27
	11/2/2020	449.61	31.00	418.61
	4/9/2020		17.37	413.26
	5/4/2020		19.64	410.99
PW-APA-4B	6/11/2020	430.63	20.09	410.54
	9/1/2020		22.33	408.30
	11/2/2020		23.18	407.45
	4/9/2020		9.25	441.52
	5/4/2020		19.06	431.71
PW-APA-4S	6/11/2020	450.77	11.98	438.79
	9/1/2020		14.06	436.71
	11/2/2020		12.84	437.93

Notes:

TOC = Top of Casing

ft-MSL = feet above Mean Sea Level

TOC elevations for locations in Pond A were resurveyed week of October 26, 2020 following riser height adjustments.

Summary of Monitoring Results - November 2019 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Well ID		AP-1R	AP-2A	AP-2BO	AP-3	AP-3A	AP-4A	AP-4I	AP-4B	AP-5	AP-5A	AP-6A	AP-6B	AP-7
Lab ID		50241051001	50241051002	50241051003	50241051004	50241051005	50241051006	50241051007	50241051008	50241051009	50241051010	50241051011	50241051012	50241051013
Sample Date		11/5/2019	11/5/2019	11/5/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/5/2019
Static Water Elevation (ft MSL)		407.28	405.47	405.67	406.19	405.26	405.26	405.30	405.24	405.56	405.76	405.88	405.95	422.82
Field Parameters														
Temperature	°C	17.52	16.55	16.86	17.69	17.26	17.32	16.91	17.24	16.98	17.81	16.19	16.01	15.25
Dissolved Oxygen, Field	mg/L	0.16	0.23	1.48	1.13	0.22	0.43	0.65	0.06	0.16	0.45	0.18	0.38	0.14
Conductivity, Field	uS/cm	2201.08	2598.16	2754.75	1703.31	2959.34	3031.47	2837.54	1412.91	2783.05	2692.04	2569.32	1468.30	1386.57
ORP, Field	mV	-124.01	-150.14	-29.96	148.05	-84.19	-76.75	-22.43	60.47	40.40	-62.80	-79.81	65.71	-57.32
pH, Field	Std. Units	7.10	7.69	7.29	6.77	7.23	7.06	7.10	6.67	7.19	7.04	7.07	6.85	6.68
Analytical Data														
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	1.4	5.6	2.4	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	1.1
Barium, Total	ug/L	53.1	48.3	26.7	28.8	37.6	30.2	29.6	68.5	28.4	23.2	25.5	30	53.4
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	9960	16600	17800	3870	25900	20300	15000	1570	12500	15300	13500	1110	216
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	422000	570000	578000	378000	678000	586000	595000	241000	640000	592000	470000	234000	191000
Chloride	mg/L	76.1	97.0	103	28.4	140	123	98.9	9.8	75.0	53.1	39.7	10.5	4.1
Chromium, Total	ug/L	NA												
Cobalt, Total	ug/L	<1.0	1.1	2.7	<1.0	1.1	<1.0	2.6	<1.0	2.3	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	<0.10	0.16	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	0.18	<0.10	<0.10	<0.10	0.14
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	<20.0	82.2	<20.0	<20.0	<20.0	42.6	<20.0	<20.0	20.5	<20.0	<20.0	<20.0	<20.0
Mercury, Total	ug/L	NA												
Molybdenum, Total	ug/L	14.1	2600	193	<10	702	264	139	<10	229	178	<10	<10	<10
pH at 25 Degrees C	Std. Units	7.1	7.2	7.1	7.0	7.0	7.1	7.1	6.8	7.2	7.0	7.0	7.0	6.7
Selenium, Total	ug/L	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	9.2	<1.0	<1.0	<1.0	1.2	<1.0
Sulfate	mg/L	922	1430	1460	699	1700	1740	1630	330	1630	1640	1530	463	298
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	1850	2470	2480	1550	2900	2870	2750	1080	2710	2630	2570	1120	1110
Total Radium	pCi/L	2.28	6	2.54	2.53	1.04	1.81	1.08	0.842	2	1.35	1.79	<0.687	<0.558

Notes: ft MSL: Elevation, feet mean sea level °C: Degrees celcius uS/cm: microsiemen per centimeter NA: Not analyzed umhos/cm: micromhos per centimeter mV: millivolt Std. Units: standard units mg/L: milligram per liter ug/L: microgram per liter pCi/L: picoCurie per liter Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Summary of Monitoring Results - November 2019 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Well ID	1	AP-8	AP-9A	AP-10A	MW-2R	MW-3	MW-4C	MW-19A	MW-19B	MW-19I
Lab ID		50241051014	50241026001	50241026002	50241029001	50241029002	50241029003	50241026003	50241026005	50241026004
Sample Date		11/4/2019	11/5/2019	11/5/2019	11/6/2019	11/6/2019	11/6/2019	11/5/2019	11/5/2019	11/5/2019
Static Water Elevation (ft MSL)		439.67	405.58	405.14	437.64	440.97	449.31	405.25	405.27	405.23
Field Parameters										
Temperature	°C	16.54	7.37	14.94	15.52	16.30	15.84	14.30	15.83	14.34
Dissolved Oxygen, Field	mg/L	0.05	0.50	1.07	0.29	0.19	0.37	0.84	2.75	0.55
Conductivity, Field	uS/cm	1190.60	2971.48	2757.66	2770.35	2489.72	2756.15	2466.15	777.92	835.41
ORP, Field	mV	42.14	-108.18	-98.90	-72.59	33.96	70.30	-79.10	66.96	37.07
pH, Field S	Std. Units	5.47	7.37	7.32	6.98	7.31	6.93	7.19	7.17	7.18
Analytical Data										
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	6.2	1.8	1.3	10.5	10.3	<1.0	1.7	<1.0	<1.0
Barium, Total	ug/L	17.8	48.8	30.0	39.0	42.8	29.1	39.9	66.8	75.3
Beryllium, Total	ug/L	2.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	1340	29300	26500	2210	1070	4250	23400	667	1490
Cadmium, Total	ug/L	8.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	137000	668000	626000	451000	299000	557000	579000	115000	122000
Chloride	mg/L	13.8	130	139	65.1	88.4	37.0	92.7	16.8	14.7
Chromium, Total	ug/L	NA								
Cobalt, Total	ug/L	364	1.5	<1.0	3.1	2.6	<1.0	1.4	<1.0	1.2
Fluoride	mg/L	0.57	0.16	<0.10	<0.10	0.13	0.12	<0.10	<0.10	<0.10
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	47.3	20.6	<20.0	495	1930	284	<20.0	<20.0	<20.0
Mercury, Total	ug/L	NA								
Molybdenum, Total	ug/L	<10	1990	786	<10	508	<10	810	<10	<10
pH at 25 Degrees C S	Std. Units	5.5	7.1	7.0	6.9	7.3	7.0	7.0	7.2	7.1
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0
Sulfate	mg/L	639	1730	1510	1460	1060	1420	1380	58.5	144
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	998	2810	2590	2390	1850	2500	2260	432	517
Total Badium	pCi/I	1.73	1.36	1.63	0.851	4.4	<0.65	1.04	<0.381	0.854

Notes: ft MSL: Elevation, feet mean sea level °C: Degrees celcius uS/cm: microsiemen per centimeter NA: Not analyzed umhos/cm: micromhos per centimeter mV: millivolt Std. Units: standard units mg/L: milligram per liter ug/L: microgram per liter pCi/L: picoCurie per liter Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Summary of Monitoring Results - May 2020 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Well ID		MW-2R	MW-3	MW-4C	AP-1R	AP-2A	AP-2BO	AP-3	AP-3A	AP-4A	AP-4I	AP-4B	AP-5
Lab ID		50257179001	50257179002	50257179003	50257176001	50257176002	50257176003	50257176004	50257176005	50256677001	50256677002	50256677003	50256677004
Sample Date		5/13/2020	5/13/2020	5/13/2020	5/12/2020	5/11/2020	5/11/2020	5/11/2020	5/11/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020
Static Water Elevation (ft MSL)		442.34	441.34	449.14	413.14	411.25	411.33	412.11	411.26	411.43	411.49	411.47	411.37
Field Parameters	Units												
Temperature	°C	12.61	14.56	12.39	17.60	16.38	16.90	14.71	15.69	16.51	15.78	14.99	15.46
Dissolved Oxygen, Field	mg/L	0.11	0.05	0.29	0.12	0.11	0.26	1.25	0.15	0.07	0.44	0.74	0.29
Conductivity, Field	uS/cm	2045.84	2359.05	2081.86	2122.78	2455.81	2558.18	1679.93	2821.84	2947.16	2605.67	1096.25	1775.70
ORP, Field	mV	-78.55	-90.43	-28.13	-173.57	-207.67	-138.70	11.97	-164.04	-57.67	5.29	21.89	20.12
pH, Field	Std. Units	6.85	7.25	6.87	6.92	7.47	7.31	6.78	7.08	6.92	7.07	6.61	6.98
Analytical Data													
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	14.7	16.2	<1.0	1.6	6.5	2.2	2.2	1.8	<1.0	<1.0	<1.0	<1.0
Barium, Total	ug/L	42.5	43.7	28.3	61.6	49.1	25.9	33.2	39.1	31	28.5	107	28.6
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	2240	1300	3760	9730	16900	21800	4070	26800	19800	11600	1250	6340
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	488000	476000	538000	436000	592000	612000	380000	713000	621000	694000	227000	410000
Chloride	mg/L	43.7	57.1	38.8	87.6	108	118	40.3	148	119	83.5	18.9	33.9
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	2.8	2.7	<1.0	<1.0	<1.0	2.5	2.9	<1.0	<1.0	2.8	<1.0	1.7
Fluoride	mg/L	0.12	0.35	0.19	0.12	0.2	<0.1	0.13	0.14	0.13	0.24	<0.1	0.2
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	638	1520	242	<20.0	86.0	<20.0	<20.0	<20.0	63.1	28	<20.0	30.3
Mercury, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Molybdenum, Total	ug/L	11.7	529	<10.0	16.9	2650	618	<10.0	836	220	97.9	<10.0	147
pH at 25 Degrees C	Std. Units	7.3	7.7	7.3	7.2	7.3	7.5	7.2	7.2	7.4	7.7	7.3	7.7
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	7.2	1.7
Sulfate	mg/L	1500	1540	1380	950	1490	1530	868	1790	1710	1720	250	855
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	2170	2420	2380	1840	2340	2380	1600	2730	2670	2580	868	1620
Total Radium	pCi/L	1.01	1.8	<1.99	<1.93	1.11	0.944	<1.71	<1.75	1.19	<1.47	0.747	<1.91

Notes: ft MSL: Elevation, feet mean sea level °C: Degrees celcius uS/cm: microsiemen per centimeter umhos/cm: micromhos per centimeter NA: Not Analyzed mV: millivolt Std. Units: standard units mg/L: milligram per liter ug/L: microgram per liter pCi/L: picoCurie per liter Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Summary of Monitoring Results - May 2020 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Well ID	AP-5A	AP-6A	AP-6B	AP-7	AP-8	AP-9A	AP-10A	MW-19B	MW-19I	MW-19A
Lab ID	50256677005	50256677006	50256677007	50257176006	50257176007	50256676001	50256676002	50256676004	50256676003	50256676005
Sample Date	5/7/2020	5/7/2020	5/7/2020	5/12/2020	5/11/2020	5/6/2020	5/6/2020	5/6/2020	5/6/2020	5/6/2020
Static Water Elevation (ft MSL)	411.50	411.97	412.06	423.60	440.95	411.19	410.71	410.70	410.50	410.54
Field Parameters										
Temperature	16.09	14.90	14.34	13.05	13.05	17.88	13.07	13.32	14.42	16.02
Dissolved Oxygen, Field	0.26	0.12	1.21	0.18	0.02	0.17	0.04	6.56	0.10	0.11
Conductivity, Field	2588.60	2359.27	1257.23	1150.69	1042.06	3185.98	2686.16	548.89	743.98	2590.11
ORP, Field	-94.09	-92.78	12.74	-165.65	-44.42	-160.96	-101.63	23.78	-21.37	-158.74
pH, Field	6.98	6.85	6.78	6.61	5.41	7.21	7.17	7.25	7.11	7.07
Analytical Data										
Antimony, Total	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Arsenic, Total	<1.0	<1.0	<1.0	2.4	6.4	1.1	1.0	<1.0	<1.0	1.1
Barium, Total	25.7	28.4	37.6	66.8	16.8	NA	NA	NA	NA	NA
Beryllium, Total	<0.2	<0.2	<0.2	<0.2	1.5	NA	NA	NA	NA	NA
Boron, Total	17400	10800	1210	333	1290	31000	27800	347	1070	24500
Cadmium, Total	<2.0	<2.0	<2.0	<2.0	6.2	NA	NA	NA	NA	NA
Calcium, Total	628000	459000	229000	213000	136000	711000	660000	84300	114000	596000
Chloride	58.2	34.9	11.4	4.7	13.6	149	156	9.7	12.8	119
Chromium, Total	<10.0	<10.0	<10.0	<10.0	<10.0	NA	NA	NA	NA	NA
Cobalt, Total	<1.0	<1.0	<1.0	<1.0	258	1.0	<1.0	<1.0	<1.0	1.1
Fluoride	0.11	<0.1	<0.1	0.16	0.35	0.25	0.11	0.18	0.12	<0.1
Lead, Total	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	23.6	<20.0	<20.0	<20.0	33.5	43.3	24.7	<20.0	<20.0	22.6
Mercury, Total	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA
Molybdenum, Total	199	<10.0	<10.0	<10.0	<10.0	2180	885	<10.0	<10.0	962
pH at 25 Degrees C	7.4	7.5	7.4	7.2	6.0	7.2	7.4	8.0	7.7	7.5
Selenium, Total	<1.0	<1.0	1.2	<1.0	<1.0	NA	NA	NA	NA	NA
Sulfate	1660	1250	455	294	579	1770	1590	32.6	96.3	1520
Thallium, Total	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Total Dissolved Solids	2570	2130	1080	940	921	2750	2730	301	444	2440
Total Radium	<1.7	<1.37	<1.79	0.858	<1.61	NA	NA	NA	NA	NA

Notes: ft MSL: Elevation, feet mean sea level °C: Degrees celcius uS/cm: microsiemen per centimeter umhos/cm: micromhos per centimeter NA: Not Analyzed mV: millivolt Std. Units: standard units mg/L: milligram per liter ug/L: microgram per liter pCi/L: picoCurie per liter Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Summary of Monitoring Results - June 2020 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Well ID		MW-20A	MW-20B	MW-201
Lab ID		50261089001	50261089003	50261089002
Sample Date		6/26/2020	6/25/2020	6/26/2020
Sumple Bute		0/20/2020	0/20/2020	0,20,2020
Static Water Elevation (ft MSL)		407.53	406.64	406.62
Field Parameters	Units			
Temperature	°C	17.22	21.75	14.20
Dissolved Oxygen, Field	mg/L	0.13	0.28	0.04
Conductivity, Field	uS/cm	1460	740	660
ORP, Field	mV	-102	153.7	42.3
pH, Field	Std. Units	7.26	6.47	6.86
Analytical Data				
Antimony, Total	ug/L	<1.0	<1.0	<1.0
Antimony, Dissolved	ug/L	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	2.0	5.1	<1.0
Arsenic, Dissolved	ug/L	1.6	<1.0	<1.0
Barium, Total	ug/L	35.2	209	74.4
Barium, Dissolved	ug/L	<50	125	66.3
Beryllium, Total	ug/L	<0.2	0.56	<0.2
Beryllium, Dissolved	ug/L	<0.2	<0.2	<0.2
Boron, Total	ug/L	13200	522	276
Boron, Dissolved	ug/L	12400	551	275
Cadmium, Total	ug/L	<2.0	<2.0	<2.0
Cadmium, Dissolved	ug/L	<1.0	<1.0	<1.0
Calcium, Total	ug/L	364000	195000	126000
Calcium, Dissolved	ug/L	350000	185000	120000
Chloride	mg/L	55.0	14.3	8.3
Chromium, Total	ug/L	<10.0	16.8	<10.0
Chromium, Dissolved	ug/L	<20.0	<20.0	<20.0
Cobalt, Total	ug/L	1.2	7.1	2.7
Cobalt, Dissolved	ug/L	<1.0	<1.0	1.7
Fluoride	mg/L	<0.1	<0.1	0.1
Lead, Iotal	ug/L	<10.0	11.2	<10.0
Lead, Dissolved	ug/L	<10.0	<10.0	<10.0
Lithium, Iotal	ug/L	<20.0	<20.0	<20.0
Lithium, Dissolved	ug/L	<20.0	<20.0	<20.0
Mercury	ug/L	<2.0	<2.0	<2.0
Mercury, Dissolved	ug/L	<0.2	<0.2	<0.2
Molybdenum, Total	ug/L	401	<10.0	<10.0
Nolybdenum, Dissolved	ug/L	3/8	<10.0	0.01>
Radium-226	pCI/L	<0.067	1.7	<0.0656
Radium-228	pCI/L	<0.504	2.56	0.542
Selenium, IOTal	ug/L	<1.0	2.3	2.9
Selemium, DISSOIVed	ug/L	<2.0	<2.0	2.9
Sullate	mg/L	824 <1.0	80.7	30.1
Thallium, Toldi	ug/L	<1.0	<1.0	<1.0
	ug/L	<1.U 1220	<1.0	<1.0
	nCi/l	132U <0.571	000	433
nH at 25 Degrees C	PCI/L	7.0	4.20	<0.000 6 0
hu ar so neglees r	Stu. Units	7.0	0.0	0.9

Notes: ft MSL: Elevation, feet mean sea level °C: Degrees celcius uS/cm: microsiemen per centimeter umhos/cm: micromhos per centimeter mV: millivolt

mV: millivoit Std. Units: standard units mg/L: milligram per liter ug/L: microgram per liter pCi/L: picoCurie per liter Static water elevation listed for a well may have been collected on a date different than date of well sampling.

Table 6A

Groundwater Protection Standards - November 2019 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Parameter	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
GWPS	6	12.9	2000	4	5	100	6	4	47.8	2886.3	2	660	50	2	5

Notes:

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

pCi/L = picoCuries per liter

GWPS = Groundwater Protection Standard

Table 6B

Groundwater Protection Standards - May 2020 Multiunit Ash Pond System Indianapolis Power and Light Company Petersburg Generating Station Petersburg, Indiana ATC Project No. 170LF00871

Parameter	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium	Radium 226/228 Combined
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	pCi/L
GWPS	6	16.2	2000	4	5	100	6	4	47.8	2837.1	2	660	50	2	5

Notes:

ug/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

pCi/L = picoCuries per liter

GWPS = Groundwater Protection Standard

FIGURES

- Figure 1:Site Location MapFigure 2:Groundwater Monit
- Figure 2: Groundwater Monitoring System CCR Network Wells and N&E Wells



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