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January 29, 2022

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

Re: **2021 CCR Annual Groundwater Monitoring and Corrective Action Report**
Indianapolis Power & Light Company d/b/a AES Indiana (AESI)
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Dear Mr. Heger:

ATC Group Services LLC (ATC) has prepared this 2021 CCR Annual Groundwater Monitoring and Corrective Action Report for the ash pond system at the AESI Harding Street Generating Station in Indianapolis, Marion 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 § 257.94 or the assessment 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 2021 Groundwater Monitoring and Corrective Action

For the duration of the 2021 reporting period, the CCR units at the Harding Street Generating Station - Ash Pond System were being monitored under the Assessment Monitoring Program defined 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 in 2021.

At the end of the 2021 reporting period, 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)[1]. The SSLs are as follows:

<u>Antimony</u>

Shallow: MW-3S, MW-9S

<u>Arsenic</u>

Shallow: MW-7S, MW-10S, MW-12S, MW-13S
Deep: MW-7D, MW-10D, MW-11D, MW-12D, MW-13D, MW-14D

<u>Lithium</u>

Shallow: MW-6S, MW-7S, MW-8S, MW-9S, MW-10S, MW-12S, MW-13S
Deep: MW-7D, MW-10D, MW-11D, MW-12D, MW-13D, MW-14D

<u>Molybdenum</u>

Shallow: MW-5S, MW-7S, MW-8S, MW-12S, MW-13S
Deep: MW-7D, MW-12D, MW-13D, MW-14D

[1] SSLs provided are based on the May 2021 monitoring event as November 2021 sampling data was not finalized in 2021. SSLs listed for MW-9S and MW-12S (dry in May 2021) are based on SSLs identified during the previous event the wells generated sufficient water for sampling (November 2020).

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

The assessment of corrective measures was initiated for the Harding Street Generating Station CCR regulated units 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. Groundwater nature and extent work is ongoing at the facility in support of characterizing the extent of the CCR contamination plume and further support of the CMA. Once the nature and extent (N&E) is sufficiently completed, a public meeting will be held, a remedy will be selected pursuant to § 257.97, and implementation of the selected remedy will be initiated thereafter in accordance with § 257.98.

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 2021 to comply with 40 CFR 257.90-98:

- Efforts to determine the N&E of the Appendix IV SSLs continued pursuant to § 257.95(g) including but not limited to continued off-site installation of additional monitoring equipment[2] and associated gauging and sampling at the Hanson Aggregates facility, review of groundwater analytical results/data to improve the groundwater site conceptual model, and modeling to support the CMA.

- November 2020 laboratory analytical reports were finalized and placed in the facility operating record pursuant to 40 CFR 257.95(d)(1).

[2] Monitoring Wells MW-105S, MW-105I, MW-105D, MW-106S, MW-106I, MW-106D, MW-107S, MW-107I, MW-107D, MW-108S, and MW-108D were installed in 2021. Well locations are depicted on Figure 2.

- Semi-annual assessment monitoring sampling events were conducted in 2021 as required by § 257.95(b) and § 257.95(d)(1). Pursuant to 40 CFR 257.95(b), all Appendix IV constituents were sampled in 2021.Pursuant to 40 CFR 257.95(d)(1), semi-annual sampling of all Appendix III parameters and Appendix IV constituents detected in response to 40 CFR 257.95(b) was conducted in 2021. All sampling events were performed in consistent with 40 CFR 257.93(e). Subsequent SSLs evaluation of the November 2020 and May 2021 data were performed within 90 days of completing the sampling and analysis pursuant to § 257.93(h)(2)[3].

- Semi-Annual Remedy Selection Progress Reports pursuant to § 257.97(a) for the period of September 13, 2020 through March 11, 2021, and for the period of March 12, 2021 through September 13, 2021 were completed and placed in the facility's operating record and posted to AESI's 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;

AESI operates the Harding Street Station located in Indianapolis, Indiana. It is located at 3700 South Harding Street. 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 between 2019 and 2021 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 ash pond groundwater monitoring system at the Harding Street Station consists of twenty-seven (27) monitoring wells: MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, MW-5S, MW-6S, MW-7S, MW-7D, MW-8S, MW-9S, MW-9I, MW-9D, MW-10S, MW-10D, MW-11S, MW-11D, MW-12S, MW-12D, MW-13S, MW-13D, MW-14D, MW-15S, MW-15I, and MW-15D. Monitoring wells MW-15S, MW-15I, and MW-15D represent upgradient/background wells, while the remaining represent downgradient wells. The wells were installed in accordance with the requirements of Federal CCR Rule § 257.91 between September 25, 2015 and August 17, 2018.

[3] Sampling results for the November 2020 and May 2021 semi-annual assessment monitoring events are summarized in Table 3 and Table 4, respectively. Please refer to Section § 257.90(e)(4) on Page 6 of this report regarding SSL evaluation results.

The groundwater monitoring system was re-certified in 2019 in accordance with the requirements of Federal CCR Rule § 257.91 to account for the utilization of MW-15S, MW-15I, and MW-15D as the upgradient/background monitoring wells for the CCR well network.

Pre-existing piezometer M-4, located south of Former Pond 2 adjacent to the property boundary, was converted to a N&E monitoring well in September 2019 to serve as a facility boundary well pursuant to § 257.95(g)(1)(iii).

AESI initiated N&E investigative work at the Hanson site in late 2019 to determine the extent of the plume and to support the selection of remedy. Four N&E monitoring wells (PZ-100S, PZ-100D, PZ-101S, and PZ-101D) were installed in October 2019 and sampled in December 2019. Based on the identification of groundwater concentrations above applicable GWPSs at the PZ-100 and PZ-101 well nests, seven N&E monitoring wells (MW-102S, MW-102D, MW-103S, MW-103I, MW-103D, MW-104S, and MW-104D) were installed in April 2020 in order to further evaluate the lateral extent of the off-site plume. Eleven monitoring wells (MW-105S, MW-105I, MW-105D, MW-106S, MW-106I, MW-106D, MW-107S, MW-107I, MW-107D, MW-108S, and MW-108D) were installed at Hanson between June and July 2021 in order to refine the lateral and vertical extent of the off-site plume.

No monitoring equipment was abandoned during 2021.

The location of the CCR groundwater monitoring well network, N&E wells, and N&E piezometers are depicted on Figure 2.

§ 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 groundwater samples collected at each CCR monitoring well and N&E monitoring equipment, 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 2020 semi-annual assessment monitoring and N&E (M-4, PZ-100S, PZ-100D, PZ-101S, PZ-101D, MW-102D, MW-103S, MW-103I, MW-103D, MW-104S, and MW-104D) monitoring event are summarized in Table 3A. The event also included sampling of thirteen (13) piezometers installed in 2019 that are located within the Ash Pond System (Table 3B); these results were not finalized by the end of 2020 for inclusion in the associated 2020 Annual Report. Groundwater analytical results for the May 2021 combined semi-annual assessment monitoring sampling event and on-site and off-site N&E (M-4, PZ-100S, PZ-100D, PZ-101S, PZ-101D, MW-102D, MW-103S, MW-103I, MW-103D, and MW-104D) sampling event are summarized in Table 4. Groundwater analytical results for the August 2021 off-site N&E sampling event (PZ-100S, PZ-100D, PZ-101S, PZ-101D, MW-102S, MW-102D, MW-103S, MW-103I, MW-103D, MW-104D, MW-105S, MW-105I, MW-105D, MW-106S, MW-106I, MW-106D, MW-107S, MW-107I, MW-107D, MW-108S, and MW-108D) are summarized in Table 5. Groundwater results for the November 2021 combined semi-annual assessment monitoring sampling event and on-site and off-site N&E event were not finalized in 2021 and therefore are not included with this submittal.

§ 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);

AESI Harding Street operated under the assessment monitoring program in accordance with § 257.95 during 2021. No transition between monitoring programs was conducted in 2021.

During 2021, statistical evaluations of the November 2020 and May 2021 analytical data were performed in order to determine whether there was a SSL of a new Appendix IV constituent detected above the relevant GWPS in accordance with § 257.95(g) and 257.93(h). The evaluations were completed in April 2021 and October 2021, respectively. Based on the evaluations, it was determined that the Appendix IV constituents that exceeded the GWPS include antimony, arsenic, lithium, and molybdenum; however, these are the same constituent SSLs previously identified. SSLs and associated wells are summarized on Page 2.

Since there were no new Appendix IV constituent SSLs 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 6 summarizes the groundwater protection standards established in accordance with § 257.95(d)(2) and § 257.95(h) associated with both the November 2020 and May 2021 semi-annual assessment monitoring events.

Projected key activities for the upcoming year include the following:

- Assessment monitoring sampling events in accordance with § 257.95 and consistent with § 257.90(e).
- Finalize November 2021 analytical data and complete statistical evaluation of November 2021 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 2022 assessment monitoring analytical data.
- Continue N&E work pursuant to § 257.95(g) including but not limited to review of off-site N&E data.
- Potentially conduct public meeting to discuss the results of the corrective measures assessment at least 30 days prior to the selection of remedy pursuant to § 257.96(e).
- Prepare semi-annual report(s) describing progress in selecting and designing the remedy pursuant to § 257.97(a).

We appreciate the opportunity to assist with AESI's CCR Rule groundwater monitoring program at Harding Street 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

Robert T. Duncan

Robert T. Duncan, L.P.G.
Principal Geologist

Copies: Ms. Nysa Hogue
Mr. Thom O'Leary

FIGURES

LEGEND:

- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- APPROXIMATE LIMITS OF CCR SURFACE IMPOUNDMENT
- APPROXIMATE LIMITS OF NON CCR SURFACE IMPOUNDMENT

NOTE:
ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE HARDING STREET GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.

664
675
Substation
HARDING STREET GENERATING STATION
WHITE RIVER
POND 1
POND 3
Well
Well
POND 2A
POND 2B
FORMER POND 2
FORMER POND 4A
FORMER POND 4B
FORMER POND 4
670
DITCH

N

400 0 100 200 300 400
SCALE: 1" = 400'

NOTE:
ORIGINAL MAP SCALE = 1" TO 2,000'

Drn. By:	Ckd. By:	App'd By:	Ckd. Date:
BH	MB		

Project Number: 170LF01115
Drawing File: SEE LOWER LEFT

ATC

SITE LOCATION MAP

AES INDIANA HARDING STREET STATION
3700 SOUTH HARDING STREET
INDIANAPOLIS, INDIANA

Date: 12/21
Scale: AS SHOWN
Figure: 1

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LEGEND:

- MW-1S — CCR MONITORING WELL (Well Identification)
- M-4 — EXISTING NATURE AND EXTENT MONITORING WELL (Well Identification)
- P2 PZ-1D — 2019 ASH POND PIEZOMETERS (Piezometer Identification)
- M-102S — 2021 NATURE AND EXTENT MONITORING WELL (Well Identification)
- APPROXIMATE BOUNDARY OF ASH POND SYSTEM
- PROPERTY BOUNDARY

NOTE:
-MW-1 THROUGH MW-14 MONITORING WELL LOCATIONS ARE BASED ON COORDINATES PROVIDED IN TABLE 1 OF THE JULY 28, 2016 SAMPLING AND ANALYSIS PLAN.
MW-15 NEST LOCATIONS BASED ON OCTOBER 5, 2018 SURVEY DATA.
-ASH POND BOUNDARY OBTAINED FROM EXHIBIT 3 IN THE HARDING STREET GENERATING STATION ASH POND SYSTEM CLOSURE AND POST-CLOSURE PLAN, REV.A. JULY 28, 2016.
-PZ-100 AND PZ-101 NEST LOCATIONS BASED ON NOVEMBER, 2019 SURVEY.
-MW-102, MW-103, AND MW-104 NEST LOCATIONS BASED ON MAY 11, 2020 SURVEY.
-IMAGERY PROVIDED BY MAP DATA © 2018 GOOGLE, INEGI
-MW-105, MW-106, MW-107, AND MW-108 NEST LOCATIONS BASED ON AUGUST 6, 2021 SURVEY.

WHITE RIVER
HARDING STREET GENERATING STATION
POND 1
POND 3
FORMER POND 2
FORMER POND 4B
FORMER POND 4A
FORMER POND 4

MW-1S
MW-1D
MW-2S
MW-2D
MW-3S
MW-3D
MW-4S
MW-5S
MW-6S
MW-7S
MW-7D
MW-8S
MW-9S
MW-9I
MW-9D
MW-10S
MW-10D
MW-11S
MW-11D
MW-12S
MW-12D
MW-13S
MW-13D
MW-14D
MW-15S
MW-15I
MW-15D
M-4
P1 PZ-1S
P1 PZ-1D
P2 PZ-1S
P2 PZ-1D
P2 PZ-2S
P2 PZ-2D
P2 PZ-3S
P2 PZ-3D
P2A/B PZ-1S
P2A/B PZ-1D
P2A/B PZ-2S
P2A/B PZ-2D
P3 PZ-1S
P3 PZ-1D
PZ-100S
PZ-100D
PZ-101S
PZ-101D
MW-102S
MW-102D
MW-103S
MW-103I
MW-103D
MW-104S
MW-104D
MW-105S
MW-105I
MW-105D
MW-106S
MW-106I
MW-106D
MW-107S
MW-107I
MW-107D
MW-108S
MW-108D

N

500 0 100 200 300 400 500
SCALE: 1" = 500'

Drn. By:	Ckd. By:	App'd By:	Ckd. Date:
BH	MB		

Project Number: 170LF01115
Drawing File: SEE LOWER LEFT

ATC

GROUNDWATER MONITORING SYSTEM
CCR NETWORK AND NATURE AND EXTENT WELLS/PIEZOMETERS

AES INDIANA HARDING STREET STATION
3700 SOUTH HARDING STREET
INDIANAPOLIS, INDIANA

Date: 12/21
Scale: AS SHOWN
Figure: 2

H:\2021\PL\HARDING STREET\170LF01115\170LF01115-WELL MAP.DWG, LOCATIONS

TABLES

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-1S	9/25/2015	Downgradient	2	5/5/2021 11/3/2021	Assessment
MW-1D	9/25/2015	Downgradient	2	5/5/2021 11/3/2021	Assessment
MW-2S	9/29/2015	Downgradient	2	5/3/2021 11/1/2021	Assessment
MW-2D	2/9/2016	Downgradient	2	5/3/2021 11/1/2021	Assessment
MW-3S	9/28/2015	Downgradient	2	5/3/2021 11/1/2021	Assessment
MW-3D	2/10/2016	Downgradient	2	5/3/2021 11/1/2021	Assessment
MW-4S	9/28/2015	Downgradient	1	11/1/2021	Assessment
MW-5S	10/1/2015	Downgradient	2	5/6/2021 11/1/2021	Assessment
MW-6S	9/28/2015	Downgradient	2	5/5/2021 11/1/2021	Assessment
MW-7S	9/30/2015	Downgradient	2	5/6/2021 11/2/2021	Assessment
MW-7D	2/17/2016	Downgradient	2	5/7/2021 11/2/2021	Assessment
MW-8S	10/1/2015	Downgradient	2	5/5/2021 11/4/2021	Assessment
MW-9S	2/11/2016	Downgradient	0	NS	Assessment
MW-9I	2/24/2016	Downgradient	2	5/3/2021 11/4/2021	Assessment
MW-9D	2/11/2016	Downgradient	2	5/3/2021 11/4/2021	Assessment
MW-10S	2/16/2016	Downgradient	2	5/6/2021 11/2/2021	Assessment
MW-10D	2/16/2016	Downgradient	2	5/6/2021 11/2/2021	Assessment
MW-11S	2/17/2016	Downgradient	2	5/5/2021 11/1/2021	Assessment
MW-11D	2/18/2016	Downgradient	2	5/5/2021 11/1/2021	Assessment
MW-12S	2/19/2016	Downgradient	2	5/3/2021 11/1/2021	Assessment

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-12D	2/18/2016	Downgradient	2	5/3/2021 11/1/2021	Assessment
MW-13S	2/15/2016	Downgradient	2	5/6/2021 11/2/2021	Assessment
MW-13D	2/12/2016	Downgradient	2	5/6/2021 11/1/2021	Assessment
MW-14D	2/23/2016	Downgradient	2	5/5/2021 11/1/2021	Assessment
MW-15S	8/17/2018	Upgradient/Background	2	5/6/2021 11/3/2021	Assessment
MW-15I	8/17/2018	Upgradient/Background	2	5/6/2021 11/3/2021	Assessment
MW-15D	8/17/2018	Upgradient/Background	2	5/6/2021 11/3/2021	Assessment
M-4	12/18/1986	Nature & Extent	2	5/6/2021 11/4/2021	Assessment
MW-102S	4/15/2020	Nature & Extent	1	8/29/2021	Assessment
MW-102D	4/15/2020	Nature & Extent	3	5/4/2021 8/29/2021 11/8/2021	Assessment
MW-103S	4/8/2020	Nature & Extent	3	5/4/2021 8/24/2021 11/3/2021	Assessment
MW-103I	4/8/2020	Nature & Extent	3	5/4/2021 8/23/2021 11/3/2021	Assessment
MW-103D	4/8/2020	Nature & Extent	3	5/4/2021 8/23/2021 11/5/2021	Assessment
MW-104S	4/17/2020	Nature & Extent	2	5/3/2021 8/27/2021	Assessment
MW-104D	4/16/2020	Nature & Extent	3	5/4/2021 8/27/2021 11/2/2021	Assessment
MW-105S	7/12/2021	Nature & Extent	2	8/25/2021 11/2/2021	Assessment
MW-105I	7/9/2021	Nature & Extent	2	8/25/2021 11/2/2021	Assessment

Table 1
Well Sampling Summary
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Identification	Date Installed	Upgradient/Background, Downgradient, or Nature & Extent	Number of Samples	Sample Date	Detection or Assessment Monitoring Program
MW-105D	7/8/2021	Nature & Extent	2	8/25/2021 11/5/2021	Assessment
MW-106S	7/7/2021	Nature & Extent	2	8/25/2021 11/3/2021	Assessment
MW-106I	7/2/2021	Nature & Extent	2	8/27/2021 11/3/2021	Assessment
MW-106D	7/1/2021	Nature & Extent	2	8/27/2021 11/3/2021	Assessment
MW-107S	6/29/2021	Nature & Extent	2	8/26/2021 11/8/2021	Assessment
MW-107I	6/24/2021	Nature & Extent	2	8/26/2021 11/5/2021	Assessment
MW-107D	6/25/2021	Nature & Extent	2	8/26/2021 11/5/2021	Assessment
MW-108S	7/15/2021	Nature & Extent	2	8/27/2021 11/2/2021	Assessment
MW-108D	7/14/2021	Nature & Extent	2	8/27/2021 11/2/2021	Assessment
PZ-100S	10/24/2019	Nature & Extent	3	5/4/2021 8/27/2021 11/2/2021	Assessment
PZ-100D	10/23/2019	Nature & Extent	3	5/4/2021 8/27/2021 11/2/2021	Assessment
PZ-101S	10/29/2019	Nature & Extent	3	5/4/2021 8/24/2021 11/2/2021	Assessment
PZ-101D	10/25/2019	Nature & Extent	3	5/4/2021 8/29/2021 11/2/2021	Assessment

Notes
NS = Not sampled during year
MW-4S, MW-9S, MW-12S, MW-102S, and MW-104S were dry in May 2021 and were not sampled.
MW-104S was dry in August 2021 and was not sampled.
MW-9S, MW-102S, and MW-104S were dry in November 2021 and were not sampled.

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-1S	2/21/2021	675.33	14.07	661.26
	3/10/2021		13.12	662.21
	4/26/2021		13.49	661.84
	5/3/2021		13.09	662.24
	7/28/2021		12.95	662.38
	9/13/2021		13.88	661.45
	10/29/2021		10.58	664.75
MW-1D	2/21/2021	675.17	13.78	661.39
	3/10/2021		12.84	662.33
	4/26/2021		13.20	661.97
	5/3/2021		12.88	662.29
	7/28/2021		12.70	662.47
	9/13/2021		13.65	661.52
	10/29/2021		10.31	664.86
MW-2S	2/22/2021	684.99	20.88	664.11
	3/10/2021		20.14	664.85
	4/26/2021		20.31	664.68
	5/3/2021		20.00	664.99
	7/28/2021		19.27	665.72
	9/13/2021		20.47	664.52
	10/29/2021		17.77	667.22
MW-2D	2/22/2021	685.20	21.07	664.13
	3/10/2021		20.34	664.86
	4/26/2021		20.52	664.68
	5/3/2021		20.21	664.99
	7/28/2021		19.48	665.72
	9/13/2021		20.68	664.52
	10/29/2021		17.93	667.27

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-3S	2/22/2021	688.98	dry	#VALUE!
	3/10/2021		27.35	661.63
	4/26/2021		dry to pump (27.00)	#VALUE!
	5/3/2021		26.87	662.11
	7/28/2021		24.80	664.18
	9/13/2021		26.86	662.12
	10/29/2021		24.85	664.13
MW-3D	2/22/2021	688.82	27.78	661.04
	3/10/2021		27.39	661.43
	4/26/2021		27.54	661.28
	5/3/2021		27.28	661.54
	7/28/2021		24.80	664.02
	9/13/2021		26.82	662.00
	10/29/2021		24.80	664.02
MW-4S	2/22/2021	689.29	36.00	653.29
	3/10/2021		36.25	653.04
	4/26/2021		dry to pump (33.55)	#VALUE!
	5/3/2021		dry to pump (33.54)	#VALUE!
	7/28/2021		30.94	658.35
	9/13/2021		DRY	#VALUE!
	10/29/2021		33.00	656.29
MW-5S	2/22/2021	689.43	34.14	655.29
	3/10/2021		33.86	655.57
	4/26/2021		33.61	655.82
	5/3/2021		33.35	656.08
	7/28/2021		30.55	658.88
	9/13/2021		32.54	656.89
	10/29/2021		31.01	658.42

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-6S	2/22/2021	695.67	35.43	660.24
	3/10/2021		34.65	661.02
	4/26/2021		34.70	660.97
	5/3/2021		34.57	661.10
	7/28/2021		33.65	662.02
	9/13/2021		35.00	660.67
	10/29/2021		33.20	662.47
MW-7S	2/22/2021	696.76	40.53	656.23
	3/10/2021		39.40	657.36
	4/26/2021		39.50	657.26
	5/3/2021		39.51	657.25
	7/28/2021		38.60	658.16
	9/13/2021		40.12	656.64
	10/29/2021		38.12	658.64
MW-7D	2/22/2021	696.29	40.09	656.20
	3/10/2021		39.00	657.29
	4/26/2021		39.12	657.17
	5/3/2021		39.11	657.18
	7/28/2021		38.15	658.14
	9/13/2021		39.72	656.57
	10/29/2021		37.70	658.59
MW-8S	2/21/2021	672.78	16.95	655.83
	3/10/2021		15.16	657.62
	4/26/2021		15.81	656.97
	5/3/2021		15.55	657.23
	7/28/2021		15.23	657.55
	9/13/2021		16.94	655.84
	10/29/2021		11.86	660.92

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-9S	2/22/2021	689.02	38.60	650.42
	3/10/2021		dry	#VALUE!
	4/26/2021		dry to pump (33.40)	#VALUE!
	5/3/2021		34.29	654.73
	7/28/2021		32.78	656.24
	9/13/2021		DRY	#VALUE!
	10/29/2021		dry to pump (34.2)	#VALUE!
MW-9I	2/22/2021	689.11	39.14	649.97
	3/10/2021		39.50	649.61
	4/26/2021		38.13	650.98
	5/3/2021		37.87	651.24
	7/28/2021		32.80	656.31
	9/13/2021		36.06	653.05
	10/29/2021		35.83	653.28
MW-9D	2/22/2021	689.27	39.37	649.90
	3/10/2021		39.73	649.54
	4/26/2021		38.40	650.87
	5/3/2021		38.08	651.19
	7/28/2021		33.05	656.22
	9/13/2021		36.24	653.03
	10/29/2021		36.08	653.19
MW-10S	2/22/2021	691.10	29.48	661.62
	3/10/2021		28.70	662.40
	4/26/2021		28.78	662.32
	5/3/2021		28.57	662.53
	7/28/2021		27.39	663.71
	9/13/2021		28.90	662.20
	10/29/2021		26.72	664.38

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-10D	2/22/2021	691.28	29.65	661.63
	3/10/2021		28.89	662.39
	4/26/2021		28.99	662.29
	5/3/2021		28.76	662.52
	7/28/2021		27.58	663.70
	9/13/2021		29.10	662.18
	10/29/2021		26.92	664.36
MW-11S	2/22/2021	686.17	34.00	652.17
	3/10/2021		31.48	654.69
	4/26/2021		31.44	654.73
	5/3/2021		31.72	654.45
	7/28/2021		30.35	655.82
	9/13/2021		31.07	655.10
	10/29/2021		28.42	657.75
MW-11D	2/22/2021	686.17	31.27	654.90
	3/10/2021		29.48	656.69
	4/26/2021		29.95	656.22
	5/3/2021		29.94	656.23
	7/28/2021		29.17	657.00
	9/13/2021		33.89	652.28
	10/29/2021		26.38	659.79
MW-12S	2/22/2021	688.82	39.16	649.66
	3/10/2021		39.39	649.43
	4/26/2021		dry to pump (35.40)	#VALUE!
	5/3/2021		dry (35.5)	#VALUE!
	7/28/2021		34.02	654.80
	9/13/2021		DRY	#VALUE!
	10/29/2021		dry to pump (35.3)	#VALUE!

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-12D	2/22/2021	688.73	39.14	649.59
	3/10/2021		39.35	649.38
	4/26/2021		38.48	650.25
	5/3/2021		38.22	650.51
	7/28/2021		33.94	654.79
	9/13/2021		36.77	651.96
	10/29/2021		35.81	652.92
MW-13S	2/22/2021	696.08	38.05	658.03
	3/10/2021		37.20	658.88
	4/26/2021		37.21	658.87
	5/3/2021		37.19	658.89
	7/28/2021		36.27	659.81
	9/13/2021		39.59	656.49
	10/29/2021		36.12	659.96
MW-13D	2/22/2021	696.78	38.77	658.01
	3/10/2021		37.98	658.80
	4/26/2021		37.95	658.83
	5/3/2021		37.92	658.86
	7/28/2021		37.00	659.78
	9/13/2021		38.54	658.24
	10/29/2021		36.83	659.95
MW-14D	2/22/2021	697.88	42.51	655.37
	3/10/2021		41.00	656.88
	4/26/2021		41.34	656.54
	5/3/2021		41.35	656.53
	7/28/2021		40.60	657.28
	9/13/2021		42.33	655.55
	10/29/2021		38.94	658.94

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-15S	2/22/2021	685.46	19.41	666.05
	3/10/2021		18.45	667.01
	4/26/2021		18.52	666.94
	5/3/2021		18.23	667.23
	7/28/2021		16.48	668.98
	9/13/2021		18.79	666.67
	10/29/2021		16.07	669.39
MW-15I	2/22/2021	685.59	19.10	666.49
	3/10/2021		18.22	667.37
	4/26/2021		18.16	667.43
	5/3/2021		17.87	667.72
	7/28/2021		16.16	669.43
	9/13/2021		18.42	667.17
	10/29/2021		16.09	669.50
MW-15D	2/22/2021	685.20	19.77	665.43
	3/10/2021		17.96	667.24
	4/26/2021		17.91	667.29
	5/3/2021		17.60	667.60
	7/28/2021		15.88	669.32
	9/13/2021		18.13	667.07
	10/29/2021		15.82	669.38
M-4	2/22/2021	693.25	37.77	655.48
	3/10/2021		36.50	656.75
	4/26/2021		36.70	656.55
	5/6/2021		36.76	656.49
	7/28/2021		35.81	657.44
	9/13/2021		37.47	655.78
	10/29/2021		35.04	658.21

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
PZ-100S	2/22/2021	681.79	31.99	649.80
	3/11/2021		32.00	649.79
	4/26/2021		31.32	650.47
	5/3/2021		31.04	650.75
	7/28/2021		27.38	654.41
	8/27/2021		28.72	653.07
	9/13/2021		29.72	652.07
	10/29/2021		28.49	653.30
PZ-100D	2/22/2021	681.84	48.18	633.66
	3/11/2021		48.35	633.49
	4/26/2021		47.80	634.04
	5/3/2021		47.55	634.29
	7/28/2021		44.66	637.18
	8/27/2021		45.85	635.99
	9/13/2021		46.50	635.34
	10/29/2021		46.10	635.74
PZ-101S	2/22/2021	689.36	46.85	642.51
	3/11/2021		47.30	642.06
	4/26/2021		47.30	642.06
	5/3/2021		45.69	643.67
	7/28/2021		41.16	648.20
	8/27/2021		42.77	646.59
	9/13/2021		44.02	645.34
	10/29/2021		43.56	645.80

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
PZ-101D	2/22/2021	689.40	85.47	603.93
	3/11/2021		85.58	603.82
	4/26/2021		85.31	604.09
	5/3/2021		85.25	604.15
	7/28/2021		83.30	606.10
	8/30/2021		83.47	605.93
	9/13/2021		83.76	605.64
	10/29/2021		83.96	605.44
MW-102S	2/22/2021	677.10	56.96	620.14
	3/11/2021		56.25	620.85
	4/26/2021		55.92	621.18
	5/3/2021		55.99	621.11
	7/28/2021		56.05	621.05
	8/30/2021		56.25	620.85
	9/13/2021		56.11	620.99
	10/29/2021		56.02	621.08
MW-102D	2/22/2021	677.48	60.90	616.58
	3/11/2021		60.70	616.78
	4/26/2021		60.37	617.11
	5/3/2021		60.29	617.19
	7/28/2021		60.05	617.43
	8/30/2021		60.35	617.13
	9/13/2021		60.34	617.14
	10/29/2021		60.10	617.38

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-103S	2/22/2021	701.27	36.00	665.27
	3/11/2021		36.01	665.26
	4/26/2021		36.14	665.13
	5/3/2021		36.10	665.17
	7/28/2021		36.00	665.27
	8/24/2021		35.89	665.38
	9/13/2021		35.85	665.42
	10/29/2021		35.71	665.56
MW-103I	2/22/2021	701.26	92.37	608.89
	3/11/2021		90.90	610.36
	4/26/2021		89.29	611.97
	5/3/2021		89.31	611.95
	7/28/2021		86.11	615.15
	8/23/2021		88.18	613.08
	9/13/2021		88.40	612.86
	10/29/2021		86.92	614.34
MW-103D	2/22/2021	701.54	95.04	606.50
	3/11/2021		93.69	607.85
	4/26/2021		92.24	609.30
	5/3/2021		92.29	609.25
	7/28/2021		89.40	612.14
	8/23/2021		91.26	610.28
	9/13/2021		91.53	610.01
	10/29/2021		90.01	611.53

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-104S	2/22/2021	676.60	56.85	619.75
	3/11/2021		56.67	619.93
	4/26/2021		56.71	619.89
	5/3/2021		dry (54.60)	#VALUE!
	7/28/2021		53.18	623.42
	8/27/2021		dry to pump	#VALUE!
	9/13/2021		56.76	619.84
	10/29/2021		56.88	619.72
MW-104D	2/22/2021	677.01	88.84	588.17
	3/11/2021		88.92	588.09
	4/26/2021		88.95	588.06
	5/3/2021		88.80	588.21
	7/28/2021		86.81	590.20
	8/27/2021		86.75	590.26
	9/13/2021		86.90	590.11
	10/29/2021		86.82	590.19
MW-105S	7/28/2021	661.47	24.47	637.00
	8/25/2021		25.36	636.11
	9/13/2021		26.05	635.42
	10/29/2021		25.87	635.60
MW-105I	7/28/2021	661.37	52.47	608.90
	8/25/2021		53.25	608.12
	9/13/2021		53.47	607.90
	10/29/2021		53.12	608.25
MW-105D	7/28/2021	661.04	59.28	601.76
	8/24/2021		60.02	601.02
	9/13/2021		60.16	600.88
	10/29/2021		59.75	601.29

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-106S	7/28/2021	671.05	33.24	637.81
	8/25/2021		33.84	637.21
	9/13/2021		33.92	637.13
	10/29/2021		33.13	637.92
MW-106I	7/28/2021	671.05	60.27	610.78
	8/27/2021		61.24	609.81
	9/13/2021		61.44	609.61
	10/29/2021		61.02	610.03
MW-106D	7/28/2021	671.00	62.36	608.64
	8/27/2021		62.90	608.10
	9/13/2021		63.17	607.83
	10/29/2021		62.60	608.40
MW-107S	7/28/2021	658.23	4.70	653.53
	8/26/2021		4.86	653.37
	9/13/2021		5.40	652.83
	10/29/2021		4.65	653.58
MW-107I	7/28/2021	658.47	33.63	624.84
	8/26/2021		33.90	624.57
	9/13/2021		34.27	624.20
	10/29/2021		34.00	624.47
MW-107D	7/28/2021	658.55	34.91	623.64
	8/26/2021		35.97	622.58
	9/13/2021		36.04	622.51
	10/29/2021		35.91	622.64
MW-108S	7/28/2021	642.22	32.45	609.77
	8/27/2021		32.46	609.76
	9/13/2021		32.54	609.68
	10/29/2021		32.45	609.77

Table 2
Groundwater Elevation Data
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station, Indianapolis, Indiana
ATC Project No. 170LF01115

Monitoring Well/Piezometer Location	Gauging Date	TOC Elevation (ft-MSL)	Depth to Water (ft)	Water Elevation (ft-MSL)
MW-108D	7/28/2021	642.03	45.57	596.46
	8/27/2021		45.52	596.51
	9/13/2021		45.70	596.33
	10/29/2021		45.65	596.38

Notes:

TOC = Top of Casing

ft-MSL = feet above Mean Sea Level

ft-bgs = feet below ground surface

Table 3A

Summary of Monitoring Results - November 2020
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-1D	MW-1S	MW-2D	MW-2S	MW-3D
Sample Date		11/6/2020	11/6/2020	11/4/2020	11/4/2020	11/3/2020
Pace Lab ID		50272526002	50272526001	50272362002	50272362001	50272213002
Static Water Elevation	ft MSL	661.90	661.79	664.75	664.67	662.16
Field Parameters	**Units**					
Temperature	°C	11.69	14.13	19.37	21.06	16.25
Dissolved Oxygen, Field	mg/L	2.39	0.28	0.25	0.04	0.69
Conductivity, Field	uS/cm	1095.1	1218.0	3048.1	6022.4	1116.3
ORP, Field	mV	-61.90	-112.90	--	-114.00	-61.90
pH, Field	Std. Units	7.35	7.36	6.82	6.96	7.70
Analytical Data						
Antimony, Total	ug/L	3.1	3.4	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	50.6	21.2	3.8	16.4	2.9
Barium, Total	ug/L	113	112	108	137	53.2
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	606	507	2810	427	851
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	106000	117000	273000	431000	122000
Chloride	mg/L	119	173	563	1140	116
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	1.3	<1.0
Fluoride	mg/L	0.33	0.35	1.0	0.28	0.20
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	<20	<20	55.4	23	<20
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	34.6	25.4	76.9	36	<10
pH at 25 Degrees C	Std. Units	7.3	7.3	7.1	7.1	7.9
Radium-226	pCi/L	0.751	0.593	1.82	1.84	0.826
Radium-228	pCi/L	2.58	2.49	2.14	2.62	0.715
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	75.8	98	625	1550	227
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	593	686	2010	4220	762
Total Radium	pCi/L	3.33	3.08	3.96	4.46	1.54

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3A
Summary of Monitoring Results - November 2020
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
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Well ID		MW-3S	MW-4S	MW-5S	MW-6S	MW-7D
Sample Date		11/3/2020	11/3/2020	11/5/2020	11/9/2020	11/17/2020
Pace Lab ID		50272213001	50272213003	50272520001	50272758001	50273620002
Static Water Elevation	ft MSL	662.34	655.69	656.85	660.63	656.37
Field Parameters	**Units**					
Temperature	°C	16.08	16.73	16.36	18.37	14.73
Dissolved Oxygen, Field	mg/L	0.43	5.05	0.05	0.55	0.56
Conductivity, Field	uS/cm	953.7	1146.6	1608.2	2196.5	2076.7
ORP, Field	mV	-3.10	41.00	38.90	-73.30	-90.70
pH, Field	Std. Units	7.18	7.17	7.24	6.78	7.33
Analytical Data						
Antimony, Total	ug/L	7.7	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	1.2	3.3	<1.0	39.2	402
Barium, Total	ug/L	45.6	113	25	121	37.6
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	333	9090	4190	9000	14000
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	99600	167000	172000	216000	219000
Chloride	mg/L	119	52.3	160	208	236
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	1.1	<1.0	1.6	<1.0
Fluoride	mg/L	0.21	0.10	2.3	1.4	0.42
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	<20	<20	41.7	61.9	91.7
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	40.6	<10	182	211	697
pH at 25 Degrees C	Std. Units	8.2	7.8	7.2	7.0	7.5
Radium-226	pCi/L	<0.861	0.586	0.309	0.318	<0.772
Radium-228	pCi/L	0.457	0.717	0.856	0.458	0.515
Selenium, Total	ug/L	1.5	41.4	<1.0	<1.0	<1.0
Sulfate	mg/L	34.7	221	346	539	594
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	520	762	1130	1500	1410
Total Radium	pCi/L	<1.68	1.3	1.17	0.776	<1.58

Notes:
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uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
Std. Units: standard units
mg/L: milligram per liter
ug/L: microgram per liter
pCi/L: picoCurie per liter
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Table 3A

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AES Indiana
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Well ID		MW-7S	MW-8S	MW-9D	MW-9I	MW-9S
Sample Date		11/17/2020	11/9/2020	11/4/2020	11/4/2020	11/9/2020
Pace Lab ID		50273620001	50272758002	50272362004	50272362003	50272758003
Static Water Elevation	ft MSL	656.41	656.35	652.94	652.93	652.88
Field Parameters	**Units**					
Temperature	°C	14.83	16.29	14.06	14.03	15.45
Dissolved Oxygen, Field	mg/L	0.56	0.22	0.13	0.04	2.25
Conductivity, Field	uS/cm	2112.6	1750.1	1184.5	976.9	1286.0
ORP, Field	mV	-68.20	63.30	-5.30	-8.00	95.20
pH, Field	Std. Units	7.23	6.76	6.62	6.61	7.02
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	7.3
Arsenic, Total	ug/L	462	<1.0	4.7	4.6	<1.0
Barium, Total	ug/L	36	39	51.8	67.1	52
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	13000	15600	901	1320	5890
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	213000	228000	116000	114000	162000
Chloride	mg/L	257	122	119	87.9	72.2
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	0.54	0.15	0.42	0.78	0.21
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	86.8	188	25.2	23.3	72.7
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	681	532	45.2	89.2	201
pH at 25 Degrees C	Std. Units	7.4	7.1	7.3	7.2	7.2
Radium-226	pCi/L	0.538	<0.737	0.585	0.821	<0.676
Radium-228	pCi/L	0.834	0.658	0.638	1.6	<1.18
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	15.9
Sulfate	mg/L	587	968	160	75	272
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1440	1820	688	554	852
Total Radium	pCi/L	1.37	<1.81	1.22	2.42	<1.86

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
Std. Units: standard units
mg/L: milligram per liter
ug/L: microgram per liter
pCi/L: picoCurie per liter
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Table 3A

Summary of Monitoring Results - November 2020
Multiunit Ash Pond System
AES Indiana
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Well ID		MW-10D	MW-10S	MW-11D	MW-11S	MW-12D
Sample Date		11/5/2020	11/5/2020	11/5/2020	11/5/2020	11/5/2020
Pace Lab ID		50272520003	50272520002	50272520006	50272520008	50272520009
Static Water Elevation	ft MSL	662.28	662.29	655.07	651.34	652.32
Field Parameters	**Units**					
Temperature	°C	16.17	15.84	13.61	18.34	17.95
Dissolved Oxygen, Field	mg/L	0.02	0.29	0.68	1.20	0.43
Conductivity, Field	uS/cm	2418.8	2704.4	1551.8	633.3	1031.8
ORP, Field	mV	-105.00	-36.80	-98.20	115.80	-8.60
pH, Field	Std. Units	7.00	7.03	7.27	7.70	7.49
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	265	349	14.4	2.6	513
Barium, Total	ug/L	30.3	46.8	31.7	76.2	27.5
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	2280	2090	10600	494	9050
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	173000	234000	225000	48200	232000
Chloride	mg/L	356	432	77.1	22.8	200
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<20.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	2.6	2.4	0.43	1.6	0.97
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<20.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	52.2	49.9	134	<20.0	108
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	88.6	77.4	<10	80.6	200
pH at 25 Degrees C	Std. Units	7.5	7.5	7.2	7.8	7.5
Radium-226	pCi/L	<1.20	<0.683	0.39	0.669	<0.627
Radium-228	pCi/L	<1.97	3.96	<1.65	0.812	0.993
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	425	542	571	98.2	610
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1540	1770	1190	404	1460
Total Radium	pCi/L	<3.17	4.07	<2.35	1.48	1.13

Notes:
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°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3A
Summary of Monitoring Results - November 2020
Multiunit Ash Pond System
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Indianapolis, Indiana
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Well ID		MW-12S	MW-13D	MW-13S	MW-14D	MW-15D
Sample Date		11/5/2020	11/5/2020	11/5/2020	11/5/2020	11/3/2020
Pace Lab ID		50272520007	50272520005	50272520004	50272520010	50272213007
Static Water Elevation	ft MSL	652.35	658.27	658.30	655.48	666.85
Field Parameters	**Units**					
Temperature	°C	17.45	17.21	17.07	15.46	15.57
Dissolved Oxygen, Field	mg/L	0.02	0.08	0.01	7.31	2.12
Conductivity, Field	uS/cm	1730.9	2115.6	2171.8	2146.7	689.3
ORP, Field	mV	30.10	-116.80	-65.20	-147.90	6.90
pH, Field	Std. Units	7.33	7.18	6.98	7.82	7.22
Analytical Data						
Antimony, Total	ug/L	2.8	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	46.9	224	433	105	1.7
Barium, Total	ug/L	31.4	30.8	33.8	49.4	63.2
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	9430	9850	9600	29300	145
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	211000	172000	181000	362000	96800
Chloride	mg/L	141	307	289	139	28.1
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	1.8	0.62	0.94	0.26	<0.10
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	84.6	79.6	69.3	445	<20
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	196	859	722	259	<10
pH at 25 Degrees C	Std. Units	7.4	7.5	7.4	7.6	7.7
Radium-226	pCi/L	<1.20	0.381	<0.692	0.391	0.565
Radium-228	pCi/L	1.68	1.15	1.86	1.24	0.869
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	565	471	450	1380	67
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1300	1380	1400	2310	448
Total Radium	pCi/L	1.75	1.53	1.86	1.63	1.43

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3A

Summary of Monitoring Results - November 2020
Multiunit Ash Pond System
AES Indiana
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Indianapolis, Indiana
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Well ID		MW-15I	MW-15S	M-4	PZ-100D	PZ-100S
Sample Date		11/3/2020	11/3/2020	11/5/2020	11/4/2020	11/4/2020
Pace Lab ID		50272213006	50272213005	50272518001	50272367002	50272367001
Static Water Elevation	ft MSL	666.97	666.37	655.63	635.74	652.26
Field Parameters	**Units**					
Temperature	°C	14.36	14.98	16.66	19.88	19.83
Dissolved Oxygen, Field	mg/L	0.57	5.67	0.14	4.20	0.43
Conductivity, Field	uS/cm	758.8	921.4	1930.2	1964.7	2309.2
ORP, Field	mV	12.30	-5.70	-173.40	-20.40	-94.70
pH, Field	Std. Units	7.19	7.10	7.42	7.54	7.28
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	<1.0	<1.0	820	38.4	2.8
Barium, Total	ug/L	61.9	61	149	58.7	41.3
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20
Boron, Total	ug/L	163	178	20600	8980	2060
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	99200	110000	268000	215000	154000
Chloride	mg/L	16.5	49.5	108	202	358
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	<0.10	<0.10	0.22	0.32	2.0
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	<20	<20	247	69	51.8
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	<10	<10	193	186	158
pH at 25 Degrees C	Std. Units	7.5	7.6	7.4	7.5	7.2
Radium-226	pCi/L	0.399	<0.534	0.601	0.794	0.974
Radium-228	pCi/L	<0.889	<0.754	1.05	1.34	0.941
Selenium, Total	ug/L	2	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	39.1	49.9	469	635	384
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	417	497	1300	1370	1420
Total Radium	pCi/L	0.683	<1.29	1.65	2.13	1.92

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3A

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Well ID		PZ-101D	PZ-101S	MW-102D	MW-103S	MW-103I
Sample Date		11/4/2020	11/4/2020	11/4/2020	11/4/2020	11/4/2020
Pace Lab ID		50272367004	50272367003	50272367006	50272367007	50272367008
Static Water Elevation	ft MSL	605.98	646.82	616.89	665.64	610.99
Field Parameters	**Units**					
Temperature	°C	15.83	16.78	18.57	18.29	20.15
Dissolved Oxygen, Field	mg/L	0.38	0.81	2.45	0.27	7.63
Conductivity, Field	uS/cm	1164.1	1388.2	2135.0	1715.8	915.3
ORP, Field	mV	-90.70	-40.60	-113.80	-68.70	-88.80
pH, Field	Std. Units	7.29	7.09	7.46	6.77	7.24
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	13.7	<1.0	1.6
Arsenic, Total	ug/L	4.0	23.1	23.7	18.5	7.4
Barium, Total	ug/L	53	156	45.2	75.6	225
Beryllium, Total	ug/L	<0.20	<0.20	<0.20	<0.20	0.26
Boron, Total	ug/L	3260	3830	10300	839	270
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	120000	156000	177000	308000	223000
Chloride	mg/L	101	106	144	71	122
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	19.2
Cobalt, Total	ug/L	<1.0	1.6	<1.0	3	6.6
Fluoride	mg/L	0.17	0.22	0.24	0.21	0.18
Iron, Dissolved	ug/L	NA	NA	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	11.6
Lithium, Dissolved	ug/L	NA	NA	NA	NA	NA
Lithium, Total	ug/L	54.3	27.3	58	<20	<20
Manganese, Dissolved	ug/L	NA	NA	NA	NA	NA
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	116	56.6	216	18.7	<10
pH at 25 Degrees C	Std. Units	7.3	7.2	7.3	6.8	7.3
Radium-226	pCi/L	1.12	0.394	<1.17	0.511	1.06
Radium-228	pCi/L	0.737	1.33	1.16	1.4	1.22
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	197	311	1040	480	18
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	712	848	982	1410	476
Total Radium	pCi/L	1.86	1.72	<2.62	1.91	2.28

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3A
Summary of Monitoring Results - November 2020
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AES Indiana
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Well ID		MW-103D	MW-104S	MW-104D
Sample Date		11/4/2020	11/4/2020	11/4/2020; 11/5/2020
Pace Lab ID		50272367009	50272367010	50272367011; 50272518003
Static Water Elevation	ft MSL	608.38	624.15	589.71
Field Parameters	**Units**		`	
Temperature	°C	15.32	19.17	20.89
Dissolved Oxygen, Field	mg/L	4.78	1.13	1.57
Conductivity, Field	uS/cm	1007.5	1386.3	1567.7
ORP, Field	mV	19.49	11.10	11.50
pH, Field	Std. Units	7.49	6.83	6.90
Analytical Data				
Antimony, Total	ug/L	16.4	<1.0	<1.0
Arsenic, Total	ug/L	2.1	<1.0	<1.0
Barium, Total	ug/L	259	47	57
Beryllium, Total	ug/L	<0.20	<0.20	<0.20
Boron, Total	ug/L	328	1720	2200
Cadmium, Total	ug/L	NA	NA	NA
Calcium, Total	ug/L	81000	183000	184000
Chloride	mg/L	133	120	108
Chromium, Total	ug/L	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0
Fluoride	mg/L	0.15	0.19	0.13
Iron, Dissolved	ug/L	NA	NA	NA
Lead, Total	ug/L	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	NA	NA	NA
Lithium, Total	ug/L	<20	<20	<20
Manganese, Dissolved	ug/L	NA	NA	NA
Mercury	ug/L	NA	NA	NA
Molybdenum, Dissolved	ug/L	NA	NA	NA
Molybdenum, Total	ug/L	<10	<10	<10
pH at 25 Degrees C	Std. Units	7.4	6.9	7
Radium-226	pCi/L	0.936	0.411	<0.777
Radium-228	pCi/L	1.38	<1.45	<1.34
Selenium, Total	ug/L	<1.0	1.4	<1.0
Sulfate	mg/L	24.7	282	377
Thallium, Total	ug/L	NA	NA	NA
Total Dissolved Solids	mg/L	495	918	1030
Total Radium	pCi/L	2.32	<2.09	<2.12

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3B

Summary of Pore Water/Groundwater Monitoring Results - November 2020
Ash Pond Piezometers
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		P1 PZ-1D	P1 PZ-1S	P2 A/B PZ-1D	P2 A/B PZ-1S	P2 A/B PZ-2D
Sample Date		11/6/2020	11/6/2020	11/6/2020	11/17/2020	11/6/2020
Pace Lab ID		50272524002	50272524003	50272524004	50273619001	50272524005
Static Water Elevation	ft MSL	663.42	672.06	663.14	663.22	662.85
Field Parameters	**Units**					
Temperature	°C	19.05	18.55	15.82	12.50	16.27
Dissolved Oxygen, Field	mg/L	0.26	0.48	0.17	0.32	0.07
Conductivity, Field	uS/cm	1402.8	2784.2	1702.2	3788.9	1608.7
ORP, Field	mV	-212.30	-101.40	0.03	-40.20	16.10
pH, Field	Std. Units	8.32	8.94	7.57	7.41	7.44
Analytical Data						
Antimony, Total	ug/L	<1.0	15.6	<1.0	3.4	<1.0
Arsenic, Total	ug/L	34.3	97.4	92.5	208	36
Barium, Total	ug/L	49.6	54.5	36.1	49.7	42.3
Beryllium, Total	ug/L	<0.20	0.3	<0.20	0.3	<0.20
Boron, Total	ug/L	14900	59400	1730	2060	1760
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	135000	727000	133000	410000	140000
Chloride	mg/L	149	13.6	239	669	217
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	1.2	<1.0	1.1	1.4
Fluoride	mg/L	0.55	0.40	2.4	1.8	3.0
Iron, Dissolved	ug/L	107	<100	1260	321	782
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	41.8	75.5	38.6	57	34.6
Lithium, Total	ug/L	43.1	76	35.8	56.4	33.8
Manganese, Dissolved	ug/L	111	<10	400	549	328
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	388	1720	89	44.4	68.3
Molybdenum, Total	ug/L	407	1700	80.6	42.2	63.3
pH at 25 Degrees C	Std. Units	8.3	8.9	7.6	7.6	7.5
Radium-226	pCi/L	NA	NA	NA	NA	NA
Radium-228	pCi/L	NA	NA	NA	NA	NA
Selenium, Total	ug/L	<1.0	394	<1.0	1.6	<1.0
Sulfate	mg/L	328	1710	247	1180	244
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	958	2950	1100	2700	1050
Total Radium	pCi/L	NA	NA	NA	NA	NA

Notes:
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°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 3B
Summary of Pore Water/Groundwater Monitoring Results - November 2020
Ash Pond Piezometers
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		P2 A/B PZ-2S	P2 PZ-1D	P2 PZ-1S	P2 PZ-2D	P2 PZ-2S
Sample Date		11/6/2020	11/5/2020	11/6/2020	11/6/20210	11/6/2020
Pace Lab ID		50272524006	50272516002	50272524007	50272524009	50272524008
Static Water Elevation	ft MSL	662.88	659.48	664.97	656.90	666.96
Field Parameters	**Units**					
Temperature	°C	NA	19.25	15.92	19.30	19.07
Dissolved Oxygen, Field	mg/L	NA	0.29	0.21	0.00	0.00
Conductivity, Field	uS/cm	NA	1773.7	2167.9	2447.1	3043.8
ORP, Field	mV	NA	-136.30	-1413.20	-194.17	-195.15
pH, Field	Std. Units	NA	7.87	8.38	8.69	9.32
Analytical Data						
Antimony, Total	ug/L	NA	7.9	1.9	5.5	6.3
Arsenic, Total	ug/L	NA	397	398	592	910
Barium, Total	ug/L	NA	320	77.4	658	362
Beryllium, Total	ug/L	NA	7.5	2.5	31.9	9.7
Boron, Total	ug/L	NA	11800	25600	20800	31600
Cadmium, Total	ug/L	NA	NA	NA	NA	NA
Calcium, Total	ug/L	NA	429000	580000	452000	660000
Chloride	mg/L	393	150	72.1	142	107
Chromium, Total	ug/L	NA	68.9	17.9	152	56.6
Cobalt, Total	ug/L	NA	26.9	4.0	49.1	16.3
Fluoride	mg/L	2.6	0.17	0.1	<0.10	<0.10
Iron, Dissolved	ug/L	100	595	125	<100	<100
Lead, Total	ug/L	NA	90.6	24.7	214	74.6
Lithium, Dissolved	ug/L	20	126	76.4	169	292
Lithium, Total	ug/L	NA	143	78.2	260	303
Manganese, Dissolved	ug/L	1520	322	124	125	14.6
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	37.4	772	1650	820	2010
Molybdenum, Total	ug/L	NA	580	1470	792	1780
pH at 25 Degrees C	Std. Units	NA	7.8	8.2	8.6	9.2
Radium-226	pCi/L	NA	NA	NA	NA	NA
Radium-228	pCi/L	NA	NA	NA	NA	NA
Selenium, Total	ug/L	NA	5.1	<1.0	13.2	2.9
Sulfate	mg/L	1210	949	1730	1110	1940
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NA	1760	2830	1940	2980
Total Radium	pCi/L	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
NS: Not Sampled
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.

Table 3B

Summary of Pore Water/Groundwater Monitoring Results - November 2020
Ash Pond Piezometers
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		P2 PZ-3D	P2 PZ-3S	P3 PZ-1D
Sample Date		11/3/2020	11/3/2020	11/5/2020
Pace Lab ID		50272208002	50272208001	50272516003
Static Water Elevation	ft MSL	655.72	662.65	664.17
Field Parameters	**Units**			
Temperature	°C	16.47	16.05	15.54
Dissolved Oxygen, Field	mg/L	2.84	0.99	0.06
Conductivity, Field	uS/cm	5251.8	9195.5	1492.8
ORP, Field	mV	42.80	-141.10	45.90
pH, Field	Std. Units	7.87	8.65	7.39
Analytical Data				
Antimony, Total	ug/L	<1.0	3.4	<1.0
Arsenic, Total	ug/L	125	151	49.5
Barium, Total	ug/L	59.6	55.8	60.1
Beryllium, Total	ug/L	<0.20	0.73	<0.20
Boron, Total	ug/L	48200	79400	1450
Cadmium, Total	ug/L	NA	NA	NA
Calcium, Total	ug/L	514000	892000	130000
Chloride	mg/L	1000	2960	239
Chromium, Total	ug/L	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	1.8	1.8	<1.0
Fluoride	mg/L	0.13	<0.10	1.5
Iron, Dissolved	ug/L	662	<100	320
Lead, Total	ug/L	<10.0	<10.0	<10.0
Lithium, Dissolved	ug/L	935	2050	33.8
Lithium, Total	ug/L	993	2140	32.7
Manganese, Dissolved	ug/L	423	267	227
Mercury	ug/L	NA	NA	NA
Molybdenum, Dissolved	ug/L	273	480	61.5
Molybdenum, Total	ug/L	266	470	59.6
pH at 25 Degrees C	Std. Units	7.7	8.6	7.5
Radium-226	pCi/L	NA	NA	NA
Radium-228	pCi/L	NA	NA	NA
Selenium, Total	ug/L	<1.0	<1.0	<1.0
Sulfate	mg/L	2720	3030	149
Thallium, Total	ug/L	NA	NA	NA
Total Dissolved Solids	mg/L	4620	9230	894
Total Radium	pCi/L	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
NS: Not Sampled
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.

Table 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-1D	MW-1S	MW-2D	MW-2S
Sample Date		5/5/2021	5/5/2021	5/3/2021	5/3/2021
Pace Lab ID		50286756002	50286756001	50286423002	50286423001
Static Water Elevation	ft MSL	662.29	662.24	664.99	664.99
Field Parameters	**Units**				
Temperature	°C	16.50	16.16	10.82	8.73
Dissolved Oxygen, Field	mg/L	0.12	0.03	NM	NM
Conductivity, Field	uS/cm	1018.3	1360.0	1542.6	890.36
ORP, Field	mV	-103.0	-112.1	-102.3	-188.4
pH, Field	Std. Units	7.42	7.50	7.31	7.58
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	231	235	347	231
Alkalinity,Bicarbonate (CaCO3)	mg/L	231	235	347	231
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200	<200	<200
Antimony, Total	ug/L	<1.0	2.8	<1.0	<1.0
Arsenic, Total	ug/L	5.9	24.6	2.5	6.9
Barium, Total	ug/L	77.5	125	37.8	92.4
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	434	199	1750	142
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	102000	111000	162000	58800
Chloride	mg/L	186	309	338	289
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Dissolved Organic Carbon	mg/L	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	0.23	0.24	0.87	0.46
Iron, Ferrous	mg/L	0.29	<0.2	<0.2	<0.2
Iron, Total	ug/L	3110	12100	1710	690
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	23.6	<20	40.3	<20
Magnesium, Total	ug/L	22200	26600	47800	22400
Manganese, Dissolved	ug/L	240	320	338	277
Manganese, Total	ug/L	254	345	328	262
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	40.7	24.7	57.4	36.9
Molybdenum, Total	ug/L	39.8	24.8	56.3	35
Nitrogen, Nitrate	mg/L	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.6	7.4	7.4	7.9
Phosphate as P04	mg/L	0.44	5.9	<0.15	0.63
Potassium, Total	ug/L	5920	5940	8750	6190
Radium-226	pCi/L	0.753	1.56	0.404	0.824
Radium-228	pCi/L	1.24	1.98	1.44	<1.05
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Silica, Total	ug/L	14600	12600	13400	6790
Sodium, Total	ug/L	86400	116000	167000	122000
Sulfate	mg/L	71.6	69.5	360	95.3
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	625	688	1100	579
Total Organic Carbon	mg/L	1.8	2.2	1.3	1.7
Total Radium	pCi/L	1.99	3.54	1.84	0.827

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-3D	MW-3S	MW-5S	MW-6S
Sample Date		5/3/2021	5/3/2021	5/6/2021	5/5/2021
Pace Lab ID		50286423004	50286423003	50286949001	50286756003
Static Water Elevation	ft MSL	661.54	662.11	656.08	661.10
Field Parameters	**Units**				
Temperature	°C	15.17	14.12	15.14	16.58
Dissolved Oxygen, Field	mg/L	0.28	1.61	0.54	2.86
Conductivity, Field	uS/cm	952.44	931.69	1713.2	2009.0
ORP, Field	mV	97.9	121.5	110.8	-64.5
pH, Field	Std. Units	7.18	7.15	7.28	7.15
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	250	244	298	389
Alkalinity,Bicarbonate (CaCO3)	mg/L	250	244	298	389
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200	272	<200
Antimony, Total	ug/L	<1.0	5.5	<1.0	<1.0
Arsenic, Total	ug/L	3.8	<1	<1.0	11.9
Barium, Total	ug/L	39.3	40.9	35.0	113
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	579	161	2130	7470
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	92200	99100	175000	224000
Chloride	mg/L	164	116	270	240
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	1.3	1.8
Dissolved Organic Carbon	mg/L	<1.0	<1.0	1.5	<1.0
Fluoride	mg/L	0.18	0.17	1.7	1.3
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2
Iron, Total	ug/L	1780	<100	810	6430
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	<20	<20	42.2	62.6
Magnesium, Total	ug/L	23700	21600	52200	61200
Manganese, Dissolved	ug/L	204	<10	1010	1730
Manganese, Total	ug/L	202	28.6	1000	1800
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	<10	38.2	129	213
Molybdenum, Total	ug/L	<10	36.1	131	216
Nitrogen, Nitrate	mg/L	<0.10	0.18	<0.10	0.22
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.8	7.4	7.4	7.7
Phosphate as P04	mg/L	<0.15	<0.15	<0.15	0.42
Potassium, Total	ug/L	3360	1700	7520	10700
Radium-226	pCi/L	<0.541	<0.861	<0.948	<0.948
Radium-228	pCi/L	<1.1	0.433	1.1	0.672
Selenium, Total	ug/L	<1.0	9.5	<1.0	3.9
Silica, Total	ug/L	11300	8130	15800	13400
Sodium, Total	ug/L	67500	57800	189000	165000
Sulfate	mg/L	175	51.5	431	466
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	590	521	1330	1390
Total Organic Carbon	mg/L	<1.0	<1.0	<1.0	1.9
Total Radium	pCi/L	<1.64	<1.69	1.18	<1.7

Notes:
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°C: Degrees celcius
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umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-7D	MW-7S	MW-8S	MW-9D
Sample Date		5/6/2021	5/6/2021	5/5/2021	5/3/2021
Pace Lab ID		50286949003	50286949002	50286756004	50286423006
Static Water Elevation	ft MSL	657.18	657.25	657.23	651.19
Field Parameters	**Units**				
Temperature	°C	16.24	16.23	13.04	13.97
Dissolved Oxygen, Field	mg/L	0.12	0.17	0.18	0.25
Conductivity, Field	uS/cm	2512.8	1924.1	1953.9	1227.7
ORP, Field	mV	-124.9	-112.2	49.6	8.0
pH, Field	Std. Units	7.59	7.57	7.34	7.12
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	223	236	328	284
Alkalinity,Bicarbonate (CaCO3)	mg/L	223	236	328	284
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	1020	<200	<200
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	476	419	<1	8.7
Barium, Total	ug/L	41.8	45.3	29.5	55.2
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	13900	13000	10800	1080
Cadmium, Total	ug/L	2.1	<2.0	<2.0	<2.0
Calcium, Total	ug/L	209000	188000	182000	119000
Chloride	mg/L	219	223	153	114
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	1.5	<1.0	<1.0
Dissolved Organic Carbon	mg/L	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	0.36	0.51	<0.1	0.4
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	1.4
Iron, Total	ug/L	2300	4400	<100	1870
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	96.9	81.7	123	25
Magnesium, Total	ug/L	44600	44500	74200	37500
Manganese, Dissolved	ug/L	476	385	94.4	245
Manganese, Total	ug/L	494	419	132	236
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	676	642	336	50.3
Molybdenum, Total	ug/L	704	676	354	49.6
Nitrogen, Nitrate	mg/L	<0.10	<0.10	0.33	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.6	7.7	7.3	7.7
Phosphate as P04	mg/L	0.91	0.91	<0.15	<0.15
Potassium, Total	ug/L	15300	14200	18900	6390
Radium-226	pCi/L	0.743	0.151	<1.24	1.1
Radium-228	pCi/L	0.711	1.38	<0.773	0.545
Selenium, Total	ug/L	<1.0	<1.0	2.1	<1.0
Silica, Total	ug/L	13600	18300	12500	11700
Sodium, Total	ug/L	187000	183000	133000	81400
Sulfate	mg/L	628	566	512	208
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	1480	1360	1320	725
Total Organic Carbon	mg/L	<1.0	<1.0	1.6	<1.0
Total Radium	pCi/L	1.45	1.53	<2.01	1.65

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-9I	MW-10D	MW-10S	MW-11D
Sample Date		5/3/2021	5/6/2021	5/6/2021	5/5/2021
Pace Lab ID		50286423005	50286949005	50286949004	50286756005
Static Water Elevation	ft MSL	651.24	662.52	662.53	656.23
Field Parameters	**Units**				
Temperature	°C	13.72	15.79	15.58	14.19
Dissolved Oxygen, Field	mg/L	0.09	0.17	0.00	0.45
Conductivity, Field	uS/cm	1015.5	2044.8	1472.1	1527.3
ORP, Field	mV	-34.5	-2.7	-94.2	-61.3
pH, Field	Std. Units	7.15	7.62	7.37	7.39
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	274	297	284	251
Alkalinity,Bicarbonate (CaCO3)	mg/L	274	297	284	251
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200	<200	238
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	4.8	250	413	15.4
Barium, Total	ug/L	69.5	26.4	87.8	26.5
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	1050	3540	1800	10800
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	97100	163000	235000	216000
Chloride	mg/L	177	258	356	78.3
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Dissolved Organic Carbon	mg/L	1.1	<1.0	1.1	<1.0
Fluoride	mg/L	0.97	2.6	2.5	0.25
Iron, Ferrous	mg/L	0.82	<0.2	<0.2	<0.2
Iron, Total	ug/L	1020	1660	1050	5910
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	30.5	49.8	45.3	141
Magnesium, Total	ug/L	24200	57200	44100	52100
Manganese, Dissolved	ug/L	234	139	421	32.8
Manganese, Total	ug/L	224	145	436	45.6
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	135	93.6	70.3	<10
Molybdenum, Total	ug/L	134	97.2	72.2	<10
Nitrogen, Nitrate	mg/L	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.5	7.5	7.7	0.665
Phosphate as P04	mg/L	<0.15	0.33	1.4	<0.15
Potassium, Total	ug/L	5420	11100	10800	3030
Radium-226	pCi/L	<1.1	0.562	<1.32	0.375
Radium-228	pCi/L	<1.1	1.38	0.717	<0.774
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<10
Silica, Total	ug/L	11200	14900	14000	17700
Sodium, Total	ug/L	70900	193000	213000	8260
Sulfate	mg/L	112	428	537	74700
Sulfide	mg/L	<0.10	<0.10	<0.10	547
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<0.1
Total Dissolved Solids	mg/L	560	1310	1520	<1
Total Organic Carbon	mg/L	<1.0	<1.0	<1.0	1170
Total Radium	pCi/L	<2.2	1.94	<2	<1

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4
Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-11S	MW-12D	MW-13D	MW-13S
Sample Date		5/5/2021	5/3/2021	5/6/2021	5/6/2021
Pace Lab ID		50286756006	50286423007	50286949007	50286949006
Static Water Elevation	ft MSL	654.45	650.51	658.86	658.89
Field Parameters	**Units**				
Temperature	°C	11.62	16.55	16.77	16.85
Dissolved Oxygen, Field	mg/L	1.85	0.28	0.12	0.03
Conductivity, Field	uS/cm	631.80	1886.7	2143.8	2189.9
ORP, Field	mV	42.6	-88.7	-131.5	-77.8
pH, Field	Std. Units	7.97	7.48	7.64	7.46
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	195	256	229	267
Alkalinity,Bicarbonate (CaCO3)	mg/L	195	256	229	267
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200	1940	<200
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	2.4	463	242	321
Barium, Total	ug/L	75.1	28.4	54.1	34.8
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	530	5990	11900	9740
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	49200	193000	158000	145000
Chloride	mg/L	25.3	200	221	220
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	1.1	<1.0
Dissolved Organic Carbon	mg/L	<1.0	<1.0	1.3	2.3
Fluoride	mg/L	1.4	1.3	0.6	0.92
Iron, Ferrous	mg/L	<0.2	1.6	<0.2	<0.2
Iron, Total	ug/L	238	1790	4190	1280
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	<20	69.6	72.7	62.5
Magnesium, Total	ug/L	29000	48800	46000	43400
Manganese, Dissolved	ug/L	22.8	376	145	347
Manganese, Total	ug/L	11	367	199	353
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	75.5	176	735	668
Molybdenum, Total	ug/L	77.6	173	762	692
Nitrogen, Nitrate	mg/L	0.15	<0.10	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.8	7.5	7.6	7.5
Phosphate as P04	mg/L	<0.15	0.43	0.41	0.37
Potassium, Total	ug/L	2000	12900	13800	11300
Radium-226	pCi/L	0.704	<0.725	<1.2	0.808
Radium-228	pCi/L	0.744	<1.34	1.34	0.604
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Silica, Total	ug/L	14200	14300	22400	14800
Sodium, Total	ug/L	20000	157000	191000	182000
Sulfate	mg/L	101	505	474	388
Sulfide	mg/L	<0.1	<0.10	<0.10	<0.10
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	390	1300	1290	1220
Total Organic Carbon	mg/L	<1.0	1.1	<1.0	1.5
Total Radium	pCi/L	1.45	<2.07	1.77	1.41

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-14D	MW-15D	MW-15I	MW-15S
Sample Date		5/5/2021	5/6/2021	5/6/2021	5/6/2021
Pace Lab ID		50286756007	50286949010	50286949009	50286949008
Static Water Elevation	ft MSL	656.53	667.60	667.72	667.23
Field Parameters	**Units**				
Temperature	°C	15.57	13.55	13.82	12.98
Dissolved Oxygen, Field	mg/L	0.23	0.24	0.13	6.86
Conductivity, Field	uS/cm	4754.4	762.76	738.18	784.86
ORP, Field	mV	-111.0	-11.0	-12.4	11.6
pH, Field	Std. Units	7.74	7.44	7.29	7.31
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	164	316	313	310
Alkalinity,Bicarbonate (CaCO3)	mg/L	164	316	313	310
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	981	<200	<200	208
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	133	<1.0	<1.0	<1.0
Barium, Total	ug/L	71.1	68.9	67.4	51.8
Beryllium, Total	ug/L	<0.2	<0.2	<0.2	<0.2
Boron, Total	ug/L	48700	152	140	128
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	509000	102000	104000	102000
Chloride	mg/L	414	29.9	17.5	39.6
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	1.2	<1.0	<1.0	<1.0
Dissolved Organic Carbon	mg/L	2	<1.0	<1.0	<1.0
Fluoride	mg/L	<0.1	<0.1	<0.1	<0.1
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	<0.2
Iron, Total	ug/L	4410	1150	<100	499
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	809	<20	<20	<20
Magnesium, Total	ug/L	197000	29500	26900	26200
Manganese, Dissolved	ug/L	370	118	10.5	<10
Manganese, Total	ug/L	422	113	13.9	40.5
Mercury	ug/L	<2.0	<2.0	<2.0	<2.0
Molybdenum, Dissolved	ug/L	214	<10	<10	<10
Molybdenum, Total	ug/L	218	<10	<10	<10
Nitrogen, Nitrate	mg/L	<0.10	<0.10	8.3	3.4
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.5	<0.10
pH at 25 Degrees C	Std. Units	7.4	7.4	7.3	7.3
Phosphate as P04	mg/L	0.7	<0.15	<0.15	<0.15
Potassium, Total	ug/L	55800	2080	1440	1680
Radium-226	pCi/L	0.533	1.01	<1.05	0.356
Radium-228	pCi/L	1.54	0.731	0.741	<0.698
Selenium, Total	ug/L	<1.0	<1.0	1.7	<1.0
Silica, Total	ug/L	14700	12000	12600	11700
Sodium, Total	ug/L	396000	19400	15000	26800
Sulfate	mg/L	2330	66.6	37.3	46.1
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Total Dissolved Solids	mg/L	3890	436	420	458
Total Organic Carbon	mg/L	1.9	<1.0	<1.0	<1.0
Total Radium	pCi/L	2.07	1.74	0.916	<1.35

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		M-4	PZ-100D	PZ-100S	PZ-101D
Sample Date		5/6/2021	5/4/2021	5/4/2021	5/4/2021
Pace Lab ID		50286950001	50286597002	50286597001	50286597004
Static Water Elevation	ft MSL	656.49	634.29	650.75	604.15
Field Parameters	**Units**				
Temperature	°C	15.67	16.33	15.91	14.81
Dissolved Oxygen, Field	mg/L	0.00	0.56	0.21	1.06
Conductivity, Field	uS/cm	1450.7	2097.4	2463.4	1135.3
ORP, Field	mV	-120.6	-130.3	-21.3	-83.0
pH, Field	Std. Units	7.33	7.61	7.19	7.18
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	274	214	314	149
Alkalinity,Bicarbonate (CaCO3)	mg/L	274	214	314	149
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200	476	<200
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	1020	62.1	3.2	4.7
Barium, Total	ug/L	141	57.2	43.1	66.4
Beryllium, Total	ug/L	NA	NA	NA	NA
Boron, Total	ug/L	24000	8100	2320	9720
Cadmium, Total	ug/L	4.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	311000	207000	175000	174000
Chloride	mg/L	122	224	359	135
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Dissolved Organic Carbon	mg/L	2.5	<1.0	1.1	<1.0
Fluoride	mg/L	0.15	0.31	1.7	0.16
Iron, Ferrous	mg/L	<0.2	<0.2	<0.2	0.38
Iron, Total	ug/L	4810	3150	2800	3430
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	228	65.8	57.6	105
Magnesium, Total	ug/L	54600	55300	65000	49300
Manganese, Dissolved	ug/L	719	232	386	474
Manganese, Total	ug/L	740	224	397	461
Mercury	ug/L	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	325	171	140	287
Molybdenum, Total	ug/L	343	169	139	278
Nitrogen, Nitrate	mg/L	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.5	7.8	7.7	7.4
Phosphate as P04	mg/L	2.6	0.54	<0.15	0.29
Potassium, Total	ug/L	21200	10900	11000	8100
Radium-226	pCi/L	0.545	0.514	<0.916	0.665
Radium-228	pCi/L	1.41	1.36	0.868	<0.883
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Silica, Total	ug/L	12700	11800	17200	9760
Sodium, Total	ug/L	132000	152000	242000	126000
Sulfate	mg/L	918	642	477	638
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1770	1340	1470	1170
Total Organic Carbon	mg/L	1.5	1.4	2.5	<1.0
Total Radium	pCi/L	1.96	1.87	0.933	1.1

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
Std. Units: standard units
mg/L: milligram per liter
ug/L: microgram per liter
pCi/L: picoCurie per liter

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Table 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		PZ-101S	MW-102D	MW-103S	MW-103I
Sample Date		5/4/2021	5/4/2021	5/4/2021	5/4/2021
Pace Lab ID		50286597003	50286597007	50286597008	50286597009
Static Water Elevation	ft MSL	643.67	617.19	665.17	611.95
Field Parameters	**Units**				
Temperature	°C	15.16	15.64	15.66	13.98
Dissolved Oxygen, Field	mg/L	0.20	0.31	0.53	0.35
Conductivity, Field	uS/cm	1058.7	2564.7	1543.7	1008.1
ORP, Field	mV	-84.0	-60.0	31.8	84.1
pH, Field	Std. Units	7.06	7.71	6.88	7.26
Analytical Data					
Alkalinity, Total as CaCO3	mg/L	214	99.5	541	285
Alkalinity,Bicarbonate (CaCO3)	mg/L	214	99.5	541	285
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0	<2.0	<2.0
Aluminum, Total	ug/L	<200	368	582	<200
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	19.4	57.7	14.9	<1.0
Barium, Total	ug/L	163	60.8	62.2	204
Beryllium, Total	ug/L	NA	NA	NA	NA
Boron, Total	ug/L	6950	21600	918	299
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	174000	332000	214000	85600
Chloride	mg/L	123	163	59.3	118
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	2.9	<1.0
Dissolved Organic Carbon	mg/L	<1.0	1.1	4.3	2.6
Fluoride	mg/L	0.16	0.13	0.15	0.16
Iron, Ferrous	mg/L	0.43	<0.2	2.8	<0.2
Iron, Total	ug/L	5770	5400	8150	1730
Lead, Total	ug/L	<10	<10	<10	<10
Lithium, Total	ug/L	49.8	64	<20	<20
Magnesium, Total	ug/L	51700	59800	61800	26100
Manganese, Dissolved	ug/L	506	429	353	270
Manganese, Total	ug/L	766	415	345	263
Mercury	ug/L	NA	NA	NA	NA
Molybdenum, Dissolved	ug/L	33.6	495	15.4	<10
Molybdenum, Total	ug/L	94.8	486	14.8	<10
Nitrogen, Nitrate	mg/L	<0.10	<0.10	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.4	7.5	7.0	7.8
Phosphate as P04	mg/L	0.29	0.96	<0.15	0.31
Potassium, Total	ug/L	5790	16200	2810	7230
Radium-226	pCi/L	0.349	<0.732	<0.836	1.67
Radium-228	pCi/L	<0.91	0.713	<0.744	0.998
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0
Silica, Total	ug/L	12900	14000	25400	10100
Sodium, Total	ug/L	94800	166000	40800	76100
Sulfate	mg/L	537	1280	252	57.8
Sulfide	mg/L	<0.10	<0.10	<0.10	<0.10
Thallium, Total	ug/L	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1020	1960	976	518
Total Organic Carbon	mg/L	1.8	1.7	5.5	2.5
Total Radium	pCi/L	<1.66	0.917	<1.58	2.67

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 4

Summary of Monitoring Results - May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-103D	MW-104D
Sample Date		5/4/2021	5/4/2021
Pace Lab ID		50286597010	50286597011
Static Water Elevation	ft MSL	609.25	588.21
Field Parameters	**Units**		
Temperature	°C	15.98	15.28
Dissolved Oxygen, Field	mg/L	3.31	1.10
Conductivity, Field	uS/cm	1074.7	1577.4
ORP, Field	mV	97.0	19.5
pH, Field	Std. Units	7.40	6.86
Analytical Data			
Alkalinity, Total as CaCO3	mg/L	254	376
Alkalinity,Bicarbonate (CaCO3)	mg/L	254	376
Alkalinity,Carbonate (CaCO3)	mg/L	<2.0	<2.0
Aluminum, Total	ug/L	<200	<200
Antimony, Total	ug/L	<1.0	<1.0
Arsenic, Total	ug/L	<1.0	3.4
Barium, Total	ug/L	325	61.9
Beryllium, Total	ug/L	NA	NA
Boron, Total	ug/L	337	4470
Cadmium, Total	ug/L	<2.0	<2.0
Calcium, Total	ug/L	85600	192000
Chloride	mg/L	146	106
Chromium, Total	ug/L	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0
Dissolved Organic Carbon	mg/L	1.6	1.2
Fluoride	mg/L	0.12	0.11
Iron, Ferrous	mg/L	<0.2	1.3
Iron, Total	ug/L	2340	3770
Lead, Total	ug/L	<10	<10
Lithium, Total	ug/L	<20	39.9
Magnesium, Total	ug/L	29600	52700
Manganese, Dissolved	ug/L	133	518
Manganese, Total	ug/L	127	497
Mercury	ug/L	NA	NA
Molybdenum, Dissolved	ug/L	<10	26.5
Molybdenum, Total	ug/L	<10	26
Nitrogen, Nitrate	mg/L	<0.10	<0.10
Nitrogen, Nitrite	mg/L	<0.10	<0.10
pH at 25 Degrees C	Std. Units	7.7	7.2
Phosphate as P04	mg/L	<0.15	<0.15
Potassium, Total	ug/L	5540	9600
Radium-226	pCi/L	0.913	1.46
Radium-228	pCi/L	<0.84	0.721
Selenium, Total	ug/L	<1.0	<1.0
Silica, Total	ug/L	12500	11900
Sodium, Total	ug/L	75700	76700
Sulfate	mg/L	63.2	394
Sulfide	mg/L	<0.10	<0.10
Thallium, Total	ug/L	NA	NA
Total Dissolved Solids	mg/L	577	1080
Total Organic Carbon	mg/L	2.2	1.6
Total Radium	pCi/L	1.02	2.18

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
mV: millivolt
DTP: Dry to pump
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 5

Summary of Monitoring Results - August 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		PZ-100D	PZ-100S	PZ-101D	PZ-101S	MW-102S
Sample Date		8/27/2021	8/27/2021	8/29/2021	8/27/2021	8/29/2021
Pace Lab ID		50296106002	50296106001	50296303001	50296106003	50296303003
Static Water Elevation	ft MSL	635.99	653.07	605.93	646.59	620.85
Field Parameters	**Units**					
Temperature	°C	19.27	17.88	20.18	19.45	20.59
Dissolved Oxygen, Field	mg/L	1.01	0.70	0.36	1.13	2.01
Conductivity, Field	uS/cm	1888.3	2418.8	1365.5	1386.0	2185.9
ORP, Field	mV	-176.6	-91.7	-123.0	-122.1	69.8
pH, Field	Std. Units	7.71	7.29	7.35	7.25	7.12
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	64.1	2.6	4.3	16.8	16.8
Barium, Total	ug/L	54.6	38.2	55.6	130	57.9
Beryllium, Total	ug/L	NA	NA	NA	NA	NA
Boron, Total	ug/L	7650	2310	8930	8230	5960
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	217000	194000	146000	159000	244000
Chloride	mg/L	205	342	108	121	221
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	2.2
Fluoride	mg/L	0.39	1.9	0.19	0.19	0.39
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	67.3	55.8	89.9	63.1	46.8
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	171	124	273	138	39.1
pH at 25 Degrees C	Std. Units	7.7	7.5	7.4	7.4	7.2
Radium-226	pCi/L	0.926	0.83	0.387	1.03	0.656
Radium-228	pCi/L	<0.706	1.36	1.00	0.769	<1.25
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	545	522	367	395	661
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1310	1690	943	958	1640
Total Radium	pCi/L	1.28	2.19	1.39	<1.56	0.975

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 5
Summary of Monitoring Results - August 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-102D	MW-103S	MW-103I	MW-103D	MW-104D
Sample Date		8/29/2021	8/24/2021	8/23/2021	8/23/2021	8/27/2021
Pace Lab ID		50296303002	50296004001	50296004002	50296004003	50296106004
Static Water Elevation	ft MSL	617.13	665.38	613.08	610.28	590.26
Field Parameters	**Units**					
Temperature	°C	17.52	20.00	29.03	31.79	19.26
Dissolved Oxygen, Field	mg/L	0.23	1.18	-81.10	9.65	2.35
Conductivity, Field	uS/cm	2473.8	1880.0	1070.2	959.4	1676.4
ORP, Field	mV	-182.2	-60.3	2687.7	154.6	26.7
pH, Field	Std. Units	7.52	6.72	6.89	8.06	6.96
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	3.8	16.8	<1.0
Arsenic, Total	ug/L	53.2	18	<1.0	2.2	1.4
Barium, Total	ug/L	56.9	71.8	245	273	57.1
Beryllium, Total	ug/L	NA	NA	NA	NA	NA
Boron, Total	ug/L	22000	801	259	329	2640
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	343000	298000	102000	85800	237000
Chloride	mg/L	155	62.1	130	133	123
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	2.8	<1.0	<1.0	<1.0
Fluoride	mg/L	0.16	0.21	0.21	0.17	0.11
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	47.7	<20	<20	<20	20.5
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	501	19.2	<10.0	<10.0	<10.0
pH at 25 Degrees C	Std. Units	7.3	6.9	7.2	7.9	7.2
Radium-226	pCi/L	0.502	0.62	1.5	0.315	<1.15
Radium-228	pCi/L	1.08	0.516	1.3	0.831	<0.727
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	1.0
Sulfate	mg/L	1140	406	32.4	36.2	491
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	2060	1450	601	550	1200
Total Radium	pCi/L	1.58	1.14	2.8	1.15	<1.88

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 5
Summary of Monitoring Results - August 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-105S	MW-105I	MW-105D	MW-106S	MW-106I
Sample Date		8/25/2021	8/25/2021	8/24/2021	8/25/2021	8/27/2021
Pace Lab ID		50296004004	50296004005	50296004006	50296004007	50296106005
Static Water Elevation	ft MSL	636.11	608.12	601.02	637.21	609.81
Field Parameters	**Units**					
Temperature	°C	16.03	16.68	20.88	16.45	21.95
Dissolved Oxygen, Field	mg/L	0.03	0.08	11.07	1.06	6.66
Conductivity, Field	uS/cm	2349.5	953.9	939.4	1701.8	1304.1
ORP, Field	mV	-106.3	-127.2	-111.0	-43.5	-85.0
pH, Field	Std. Units	7.03	7.20	7.37	7.01	7.11
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	5.5	<1.0	3.2	2.8	93
Barium, Total	ug/L	32.7	321	337	23.3	97.3
Beryllium, Total	ug/L	NA	NA	NA	NA	NA
Boron, Total	ug/L	21800	275	295	446	12900
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	362000	100000	99500	268000	287000
Chloride	mg/L	113	115	123	26.2	285
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	2.1
Fluoride	mg/L	0.34	0.16	0.18	0.36	0.35
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	280	<20	<20	24.2	91.7
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	66.4	<10.0	<10.0	24.5	273
pH at 25 Degrees C	Std. Units	7.2	7.3	7.5	7.4	7.3
Radium-226	pCi/L	0.866	0.857	1.08	<0.722	1.73
Radium-228	pCi/L	0.825	1.25	0.847	1.15	<1.44
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	1070	73.4	80.8	867	725
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	2020	574	573	1440	1730
Total Radium	pCi/L	1.69	2.11	1.93	1.15	2.02

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 5
Summary of Monitoring Results - August 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-106D	MW-107S	MW-107I	MW-107D	MW-108S
Sample Date		8/27/2021	8/26/2021	8/26/2021	8/26/2021	8/27/2021
Pace Lab ID		50296106006	50296184001	50296184002	50296184003	50296106007
Static Water Elevation	ft MSL	608.10	653.37	624.57	622.58	609.76
Field Parameters	**Units**					
Temperature	°C	20.58	18.43	17.84	21.76	17.83
Dissolved Oxygen, Field	mg/L	0.34	0.03	0.05	0.21	0.22
Conductivity, Field	uS/cm	1972.0	2526.2	1620.7	2164.9	2507.7
ORP, Field	mV	-137.7	-106.2	-141.9	-149.5	-103.2
pH, Field	Std. Units	7.22	7.22	7.12	7.17	7.06
Analytical Data						
Antimony, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, Total	ug/L	209	<1.0	1.6	2.4	<1.0
Barium, Total	ug/L	33.2	19.8	184	44.8	48.4
Beryllium, Total	ug/L	NA	NA	NA	NA	NA
Boron, Total	ug/L	13800	7190	3910	10200	4560
Cadmium, Total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium, Total	ug/L	293000	235000	196000	234000	236000
Chloride	mg/L	305	315	185	252	322
Chromium, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Cobalt, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	0.28	0.72	0.25	0.26	0.39
Lead, Total	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0
Lithium, Total	ug/L	108	61.6	<20	44.2	81
Mercury	ug/L	NA	NA	NA	NA	NA
Molybdenum, Total	ug/L	250	74.3	22.5	221	151
pH at 25 Degrees C	Std. Units	7.4	7.4	7.2	7.2	7.3
Radium-226	pCi/L	<0.972	0.925	1.27	<1.02	0.514
Radium-228	pCi/L	1.21	1.3	0.942	<0.901	<1.42
Selenium, Total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Sulfate	mg/L	737	847	390	690	639
Thallium, Total	ug/L	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	1750	1850	1160	1600	1670
Total Radium	pCi/L	1.53	2.23	2.21	<1.92	<1.96

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 5
Summary of Monitoring Results - August 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

Well ID		MW-108D
Sample Date		8/27/2021
Pace Lab ID		50296106008
Static Water Elevation	ft MSL	596.51
Field Parameters	**Units**	
Temperature	°C	18.98
Dissolved Oxygen, Field	mg/L	0.15
Conductivity, Field	uS/cm	2356.6
ORP, Field	mV	-124.2
pH, Field	Std. Units	7.26
Analytical Data		
Antimony, Total	ug/L	<1.0
Arsenic, Total	ug/L	<1.0
Barium, Total	ug/L	42.8
Beryllium, Total	ug/L	NA
Boron, Total	ug/L	2570
Cadmium, Total	ug/L	<2.0
Calcium, Total	ug/L	271000
Chloride	mg/L	287
Chromium, Total	ug/L	<10.0
Cobalt, Total	ug/L	<1.0
Fluoride	mg/L	0.57
Lead, Total	ug/L	<10.0
Lithium, Total	ug/L	73.4
Mercury	ug/L	NA
Molybdenum, Total	ug/L	112
pH at 25 Degrees C	Std. Units	7.3
Radium-226	pCi/L	<0.967
Radium-228	pCi/L	<1.73
Selenium, Total	ug/L	<1.0
Sulfate	mg/L	777
Thallium, Total	ug/L	NA
Total Dissolved Solids	mg/L	1880
Total Radium	pCi/L	<2.7

Notes:
ft MSL: Elevation, feet mean sea level
°C: Degrees celcius
uS/cm: microsiemen per centimeter
umhos/cm: micromhos per centimeter
NA: Not analyzed
NS: Not Sampled
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.

Table 6
Groundwater Protection Standards -
November 2020 and May 2021
Multiunit Ash Pond System
AES Indiana
Harding Street Generating Station
Indianapolis, Indiana
ATC Project No. 170LF01115

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
Shallow Zone GWPS	6	10	2000	4	5	100	6	4	15	40	2	100	50	2	5
Deep Zone GWPS	6	10	2000	4	5	100	6	4	15	40	2	100	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