

Coal Combustion Residuals
Groundwater Monitoring and Corrective Action
Annual Report for Reporting Year 2025
Keystone-Conemaugh Projects, LLC
Conemaugh Generating Station
New Florence, Pennsylvania

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Prepared by: GAI Consultants, Inc.
Pittsburgh Office
385 E. Waterfront Drive
Homestead, Pennsylvania 15120

Prepared for: Keystone-Conemaugh Projects, LLC
175 Cornell Road, Suite 1
Blairsville, Pennsylvania 15717-8076

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Executive Summary

In response to the newly adopted Part A elements (effective September 28, 2020) of the Coal Combustion Residuals (CCR) Rule (or Rule), this Executive Summary has been incorporated into the annual report per the specific provisions as codified in 40 CFR §257.90(e)(6). These provisions require that an up-front overview of the current status (covering the immediately preceding calendar year) of groundwater monitoring and corrective action programs be provided in a concise and focused manner for each CCR unit at the facility. Accordingly, the following paragraphs document the respective groundwater monitoring status (for Calendar Year 2025) of the Ash Filter Ponds and the Ash Disposal Site at the Keystone-Conemaugh Projects, LLC – Conemaugh Generating Station. Tables and/or figures referenced in the discussions below are included at the end of the report and further support the text (Sections 2.0 and 3.0) in the main body of the report.

The Ash Filter Ponds represent a collective CCR unit encompassing four ponds designated as Ponds “A,” “B,” “C,” and “D” (see Figure 1). Also as shown on Figure 1, the associated groundwater monitoring network currently utilized for CCR compliance is comprised of five wells, including two upgradient locations (Wells MW-1B and MW-2) and three downgradient locations (Wells MW-3, MW-4, and MW-23). For Calendar Year 2025, the Ash Filter Ponds entered and ended the period in the Detection Monitoring Program, wherein they have remained since CCR groundwater monitoring activities were initiated. To support this continuation, an Alternate Source Demonstration (ASD) was completed in April 2018, which successfully showed that incidental deposition of gypsum in the area of Well MW-4 was responsible for the statistically significant increase (SSI) in sulfate (CCR Appendix III constituent) in the localized groundwater (see Table 1). The findings and conclusions from the April 2018 ASD remain relevant and applicable to the current groundwater monitoring observations, which continue to show sulfate as the only Appendix III constituent elevated above background and only in downgradient Well MW-4 (see Table 1). No groundwater activities to date have triggered the Ash Filter Ponds into the Assessment Monitoring Program; thus, there has not been basis for development of groundwater protection standards (GWPS) or performance of an Assessment of Corrective Measures. Background sampling event results for Appendix IV constituents are provided in Table 2.

As shown in Figure 2, the Ash Disposal Site is a captive landfill located in the northern portion of the Conemaugh Generating Station proper. Also as shown on Figure 2, the associated groundwater monitoring network currently utilized for CCR compliance is comprised of four wells, including one upgradient location (Well MW-31) and three downgradient locations (Wells MW-9, MW-10, and MW-11). For Calendar Year 2025, the Ash Disposal Site entered and ended the period in the Assessment Monitoring Program. The Ash Disposal Site has remained in Assessment Monitoring since being transitioned in January 2018 following confirmed SSIs for CCR Appendix III constituents, including calcium, chloride, sulfate, and total dissolved solids (TDS) in the downgradient wells (see Table 3). Assessment Monitoring events conducted in April and October 2025 (see Table 4) did not reveal any CCR Appendix IV constituents at concentrations representing a statistically significant level (SSL) above the corresponding GWPSs. These events continued to show several Appendix III constituents at values above background in the downgradient wells, including Wells MW-9 (all constituents except boron, fluoride, and pH), MW-10 (all constituents except boron and pH), and Well MW-11 (all constituents except pH). No groundwater-related findings to date have triggered the Ash Disposal Site into an Assessment of Corrective Measures.

In March 2023, Keystone-Conemaugh Projects, LLC – Conemaugh Generating Station made a notice to the U.S. Environmental Protection Agency (EPA) and Pennsylvania Department of Environmental Protection (PA DEP) to voluntarily retrofit Ash Filter Ponds “B” and “C” to replace the existing clay liner with a double-lined geosynthetic system. This work was completed in December 2023. In January 2024, Keystone-Conemaugh Projects, LLC – Conemaugh Generating Station made a similar notice to the U.S. EPA and PA DEP to voluntarily retrofit Ash Filter Pond “A”

to replace the existing clay liner with a double-lined geosynthetic system. This work was completed in October 2024.

Upon completion of Pond “B” and “C” efforts, Pond “D” was removed from service, drained, and settled CCR and other materials were excavated and landfilled per the usual pond cleaning protocol. In 2024, Pond “D” was isolated from the bottom ash handling system and stabilized. Pond “D” is now idled and awaiting closure and retirement no later than Station retirement (see below).

Four new downgradient CCR groundwater monitoring wells were installed¹ in December 2023 at the newly designated downgradient waste boundary immediately adjacent to the southern limits of Pond “C.” These wells are identified as MW-41, MW-42, MW-43, and MW-44. The new wells are presently being sampled quarterly to obtain the requisite eight independent samples², and this work is anticipated to be complete by the end of Q1 2026. At that point, the new wells are anticipated to become part of the revised CCR groundwater monitoring network, replacing existing downgradient wells MW-3, MW-4, and MW-23. A CCR Groundwater Network Certification was prepared in 2024 for the new wells.

Due to the reduced footprint of the Ash Disposal Site, four new downgradient CCR groundwater monitoring wells were installed along the southern reaches of Stage IIIA of the Ash Disposal Site in December 2023. The smaller footprint and ultimate limits of waste placement take into account the anticipated reduction in the quantities of landfilled CCR and other approved residual wastes at the Ash Disposal Site for the remaining service life of the Station. The locations for the new wells represent a northward shift from the existing downgradient CCR wells MW-9, MW-10, and MW-11, which were sited at the downgradient limits of planned waste placement associated with unused Stages IIID and IIIE. The new wells (MW-32, MW-33, MW-34, and MW-35) are anticipated to replace MW-9, MW-10, and MW-11. The new wells are presently being sampled quarterly to obtain the requisite eight independent samples, and this work is anticipated to be complete by the end of Q1 2026. A CCR Groundwater Network Certification was prepared in 2024 for the new wells.

¹ See Handbook of Suggested Practices for the Design and Installation of Ground-Water Monitoring Wells, PAS160014-891034, March 1991.

² Monitoring per 40 CFR §257.94(a) and (b) requirements and letter received on January 17, 2024 by Keystone-Conemaugh Projects, LLC from U.S. EPA.

1.0 Introduction

Title 40 Code of Federal Regulations (CFR) §257.90 mandates that existing Coal Combustion Residuals (CCR) landfills and surface impoundments, also known as CCR units, be subject to groundwater monitoring and corrective action requirements as further detailed in §257.91 through §257.98. These requirements are part of the overall CCR Rule (or Rule) which was published in the Federal Register on April 17, 2015, and which became effective on October 19, 2015. Specific obligations for Owners and Operators of existing CCR units regarding the preparation of “Annual Groundwater Monitoring and Corrective Action Reports (Annual Reports)” are outlined in §257.90(e)(1-5). The first of these Annual Reports was completed no later than January 31, 2018, and provided information to address the following aspects for the preceding calendar year:

- Document the status of the groundwater monitoring and corrective action program for the respective CCR units;
- Summarize key actions completed;
- Describe any problems encountered and actions taken to resolve the problems; and
- Offer a projection of key activities for the upcoming year.

At a minimum, the Annual Report must contain the following information to the extent applicable and available, and beginning with the current report, must also address the items contained in §257.90(e)(6) in the form of an Executive Summary:

- A map, aerial image, or diagram showing the CCR unit and all background/upgradient and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program;
- 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;
- 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/upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- 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); and
- Any other information required to be included as specified in §257.90 through §257.98.

The Conemaugh Generating Station (Conemaugh or the Station) is an electric generating station located in New Florence, Pennsylvania. The Station operates two coal-fired boilers each with a steam turbine-driven electric generator that provides electricity to the regional electric grid. The Rule applies to this facility due to the management/disposal of CCR materials that are generated from the combustion of coal. CCR units associated with Station operations include the Conemaugh Ash/Refuse Disposal Site and four Ash Filter Ponds (Ponds “A,” “B,” “C,” and “D”) used for the management of bottom ash. Each of these CCR units has a dedicated groundwater monitoring system that was originally installed to comply with Commonwealth of Pennsylvania Residual Waste Regulations and was subsequently evaluated and modified (as needed) for use under the CCR program. Additionally, in accordance with the provisions of §257.91(d) of the Rule, the groundwater monitoring system for the Ash Filter Ponds has been designated to provide coverage in the context of a multiunit system encompassing all four ponds collectively.

In summary, this ninth Annual Report has been prepared to comply with the requirements of §257.90(e), addressing each of the Station’s CCR units with respect to the groundwater monitoring and corrective actions undertaken during Calendar Year 2025. This Annual Report and all subsequent reports thereto will be placed in the Station’s operating record per §257.105(h)(1),

noticed to the State Director per §257.106(h)(1), and posted to the publicly accessible internet site per §257.107(h)(1).

2.0 Ash Filter Ponds

2.1 Groundwater Monitoring Network

The groundwater monitoring system currently used for CCR compliance for the Ash Filter Ponds is comprised of five wells, including Wells MW-1B and MW-2 (upgradient), and Wells MW-3, MW-4, and MW-23 (downgradient). All five wells communicate with the alluvium, which is the uppermost aquifer. The locations of the groundwater monitoring wells are shown on Figure 1. Four new downgradient wells (identified as MW-41, MW-42, MW-43, and MW-44) were installed in December 2023. These new wells are presently being sampled for the requisite eight independent samples and are anticipated to replace the existing wells (MW-3, MW-4, and MW-23) beginning in 2026. See Section 2.5 for additional discussion. The locations of the new downgradient wells are also shown on Figure 1.

2.2 Summary of Previously Reported Monitoring Activities

In accordance with the Detection Monitoring requirements under §257.94(b) for existing CCR surface impoundments, a minimum of eight independent samples from each background and downgradient well were collected and analyzed for the constituents listed in Appendices III and IV of the Rule prior to October 17, 2017. The results from these samples, which were collected during the period from December 2015 through July 2017, were presented in the first Annual Report issued in January 2018. In addition, a ninth round of samples was collected (October 1-4, 2017) and analyzed for Appendix III constituents only. The results from these samples served as the initial point of comparison to determine if concentrations in any of the downgradient wells were at levels representing a statistically significant increase (SSI) over the background concentrations established in the upgradient well(s).

During January 2018, the results from the October 1-4, 2017 Detection Monitoring event were reviewed, and subsequent determination made that one downgradient well (MW-4) showed an Appendix III constituent (sulfate) at levels representing an SSI above corresponding background concentrations. Accordingly, and per the provisions of §257.94(e)(2), efforts were undertaken to conduct an Alternate Source Demonstration (ASD) in an attempt to identify a potential source other than the Ash Filter Ponds which was responsible for the observed SSI. This ASD (April 2018) was ultimately successful and determined that incidental gypsum deposition in the area of Well MW-4 was causing the elevated sulfate readings in the localized groundwater. As a result, the Ash Filter Ponds were deemed to remain in the CCR Detection Monitoring Program and were additionally sampled in May 2018 and October 2018 with continuing observations of SSIs only for sulfate in Well MW-4. These results, along with the detailed findings and conclusions from the ASD, were presented in the second Annual Report issued in January 2019.

During the 2019 reporting period, the Ash Filter Ponds remained in the CCR Detection Monitoring Program, with sampling events conducted in April, July, and October. The results from each of the 2019 events consistently showed SSIs for sulfate in downgradient Well MW-4 only, along with an SSI for calcium in this same well during the October event. With both calcium and sulfate being the principal components of gypsum, the previously completed ASD was deemed as still relevant and applicable, allowing the Ash Filter Ponds to continue in the CCR Detection Monitoring Program. The results and accompanying discussion were presented in the third Annual Report issued in January 2020.

During the 2020 reporting period, the Ash Filter Ponds remained in the CCR Detection Monitoring Program, with sampling events conducted in May and October 2020 (the required monitoring frequency “shall be at least semiannual” for the Appendix III constituents). The results from each of the 2020 events again consistently showed SSIs for sulfate only in downgradient Well MW-4 and were presented in detail in the fourth Annual Report issued in January 2021. With continued

relevance/applicability of the previously completed ASD, the Ash Filter Ponds remained and entered the 2021 monitoring period in the CCR Detection Monitoring Program.

As an additional note, downgradient Well MW-3 was re-surveyed in January 2020 and the top of casing elevation (from which depth to groundwater is recorded) was adjusted upward by 4.25 feet. This adjustment has been appropriately applied to all the previously calculated groundwater elevation values for Well MW-3 contained in Table 1, and results in a more uniform depiction of the local groundwater table but does not alter the generalized flow directions.

During the 2021, 2022, 2023, and 2024 reporting periods, the Ash Filter Ponds remained in the CCR Detection Monitoring Program, with sampling events conducted in April and October of each year (the required monitoring frequency “shall be at least semiannual” for the Appendix III constituents). The results from most of the events again consistently showed SSIs for sulfate only in downgradient Well MW-4 and were presented in detail in the fifth, sixth, seventh, and eighth Annual Reports issued in December 2021, December 2022, December 2023, and December 2024, respectively. The April 2023 and April 2024 sampling events included no SSIs. With continued relevance/applicability of the previously completed ASD, the Ash Filter Ponds remained and entered the 2025 monitoring period in the CCR Detection Monitoring Program.

2.3 2025 Data Collection

The Ash Filter Ponds remained in the CCR Detection Monitoring Program during the 2025 reporting period and were subjected to sampling for Appendix III constituents as part of monitoring events conducted in April and October 2025 (the required monitoring frequency “shall be at least semiannual” for the Appendix III constituents). As shown in Table 1, the results from the April 2025 event showed the sulfate concentration above background in downgradient Well MW-4. All other Appendix III constituents were measured below background values in each of the downgradient monitoring wells across both sampling events. Accordingly, based on review of the collective 2025 analytical data and continued relevance/applicability of the previously completed ASD, the Ash Filter Ponds will remain and enter Calendar Year 2026 in the CCR Detection Monitoring Program.

2.4 2025 Monitoring Program Transitions

During 2025, there were no transitions between monitoring programs, with the Ash Filter Ponds remaining in the CCR Detection Monitoring Program.

2.5 2025 Corrective Actions

During 2025, there were no problems identified or corrective actions undertaken.

Although not characterized as a corrective action, the Station did a voluntary retrofit of Ash Filter Pond “A” during 2024 to replace the existing clay liner with a double geosynthetic liner system. A similar retrofit effort at Ponds “B” and “C” was completed in 2023.

Upon completion of the Ponds “B” and “C” efforts, Pond “D” was removed from service, drained, and settled CCR and other materials were excavated and landfilled per the usual pond cleaning protocol. In 2024, Pond “D” was isolated from the bottom ash handling system and stabilized. Pond “D” is now idled and awaiting closure and retirement no later than Station retirement (please see Section 3.5 below).

With the idling of Pond “D,” the downgradient waste boundary will be immediately adjacent to the southern limits of Pond “C.” As such, four new downgradient monitoring wells (MW-41, MW-42, MW-43, and MW-44) were installed in December 2023 to eventually replace existing wells MW-3, MW-4, and MW-23, which are south of Pond “D.” These new wells are presently being sampled quarterly to obtain the requisite eight independent samples. This work is anticipated to be complete by the end of Q1 2026, at which point the new wells are expected to become part of the revised CCR groundwater monitoring network, replacing existing downgradient wells MW-3, MW-4, and MW-23.

2.6 2026 Projected Activities

As noted, it is anticipated that CCR monitoring activities will continue for the Ash Filter Ponds during 2026, with continued review of Appendix III constituent concentrations and comparison with the calculated background values. The new downgradient wells (MW-41, MW-42, MW-43, and MW-44) will continue to be sampled quarterly for the requisite eight independent samples.

3.0 Ash Disposal Site

3.1 Groundwater Monitoring Network

The groundwater monitoring system currently utilized for CCR compliance for the Ash Disposal Site is comprised of four wells, including Well MW-31 (upgradient) and Wells MW-9, MW-10, and MW-11 (downgradient). Monitoring Wells MW-9 and MW-11 communicate with the shallow unconfined groundwater in bedrock and Monitoring Wells MW-10 and MW-31 communicate with shallow groundwater across the soil/bedrock interface. Hence, all four wells monitor the uppermost aquifer in the area of the Ash Disposal Site. The locations of the groundwater monitoring wells are shown on Figure 2. Four new downgradient wells (identified as MW-32, MW-33, MW-34, and MW-35) were installed in December 2023. These new wells are presently being sampled for the requisite eight independent samples and are expected to replace the existing wells (MW-9, MW-10, and MW-11) beginning in 2026. See Section 3.5 for additional discussion. The locations of the new downgradient wells are also shown on Figure 2.

3.2 Summary of Previously Reported Monitoring Activities

In accordance with the Detection Monitoring requirements under §257.94(b) for existing CCR landfills, a minimum of eight independent samples from each background and downgradient well were collected and analyzed for the constituents listed in Appendices III and IV of the Rule prior to October 17, 2017. The results from these samples, which were collected during the period from December 2015 through July 2017, were presented in the first Annual Report issued in January 2018. In addition, a ninth round of samples was collected (October 2-3, 2017) and analyzed for Appendix III constituents only. The results from these samples served as the initial point of comparison to determine if concentrations in any of the downgradient wells were at levels representing an SSI over the background concentrations established in the upgradient well(s).

During January 2018, the results from the October 2017 Detection Monitoring event were reviewed, and subsequent determination made that all three downgradient wells showed several Appendix III constituents at levels representing an SSI above corresponding background concentrations. Accordingly, the Ash Disposal Site was transitioned into the CCR Assessment Monitoring Program, and an initial round of samples covering all Appendix IV constituents was collected in March 2018 per §257.95(b). From these results, the detected Appendix IV constituents were carried forward and analyzed during continued Assessment Monitoring events conducted in May 2018 and October 2018. As was observed, none of the Appendix IV constituents from any of the 2018 sampling events were measured at concentrations representing a statistically significant level (SSL) above the corresponding site-specific GWPSs. All analytical results from the 2018 Assessment Monitoring were presented in the second Annual Report issued in January 2019.

It is additionally noted that the May 2018 Assessment Monitoring event yielded an erroneous result for Radium-226/228 in downgradient Well MW-9. The initially reported value (103.6 pCi/L) was generated via an incorrect laboratory analytical method. Following this determination, a new sample (for Radium analysis only) was collected from MW-9 in July 2018 and reanalyzed using the correct analytical method. The revised result (0.32 pCi/L) from the July 2018 sampling aligns with the historical values detected in this well, and correspondingly remains below background and the GWPS.

During the 2019 and 2020 reporting periods, the Ash Disposal Site remained in the CCR Assessment Monitoring Program, with sampling events conducted in April, July, and October 2019, and January, May, and October 2020. None of these events showed any Appendix IV constituents

at levels representing an SSL above the corresponding GWPSs. However, with detections of at least one Appendix IV constituent and several Appendix III constituents above calculated background, the Ash Disposal Site was deemed to remain in the CCR Assessment Monitoring Program. All analytical results from the 2019 and 2020 Assessment Monitoring activities were presented in the third and fourth Annual Reports, issued in January 2020 and January 2021, respectively.

During the 2021, 2022, 2023, and 2024 reporting periods, the Ash Disposal Site remained in the CCR Assessment Monitoring Program, with sampling events conducted in April and October 2025 (similar to the monitoring frequency for the Appendix III constituents, the required monitoring frequency is “on at least a semiannual basis” for the Appendix IV constituents following completion of the initial sampling event for the Assessment Monitoring Program). None of these events showed any Appendix IV constituents at levels representing an SSL above the corresponding GWPSs. However, with detections of at least one Appendix IV constituent and several Appendix III constituents above calculated background, the Ash Disposal Site was deemed to remain in the CCR Assessment Monitoring Program. All analytical results from the 2021, 2022, 2023, and 2024 Assessment Monitoring activities were presented in the fifth, sixth, seventh, and eighth Annual Reports issued in December 2021, December 2022, December 2023, and December 2024, respectively.

3.3 2025 Data Collection

Following its transition in early-2018, the Ash Disposal Site continued in the CCR Assessment Monitoring Program during the 2024 reporting period. Accordingly, samples were collected and analyzed for Appendix III and Appendix IV constituents during the April and October 2025 monitoring events (similar to the monitoring frequency for the Appendix III constituents, the required monitoring frequency is “on at least a semiannual basis” for the Appendix IV constituents following completion of the initial sampling event for the Assessment Monitoring Program). Results from the 2025 sampling events are summarized in Tables 3 and 4, covering Appendix III and Appendix IV parameters, respectively. As shown in Table 4, none of the Appendix IV constituents from the 2025 sampling events were measured at concentrations representing an SSL above the corresponding GWPSs. Detected concentrations of at least one Appendix IV constituent (barium) as well as several Appendix III constituents, however, do remain above calculated background, thus providing the basis for continued Assessment Monitoring into 2026.

3.4 2025 Monitoring Program Transitions

During 2025, there were no transitions between monitoring programs, with the Ash Disposal Site remaining in the CCR Assessment Monitoring Program.

3.5 2025 Corrective Actions

During 2025, there were no problems identified or corrective actions undertaken. Although not characterized as a corrective action, modifications were made to the CCR groundwater monitoring network to better align with the limits of waste placement (associated with Disposal Area Stage IIIA). These revised limits are based on the anticipated reduction in the quantities of landfilled CCR and other approved residual wastes for the remaining service life of the Station. Accordingly, four new downgradient wells (identified as MW-32, MW-33, MW-34, and MW-35) were installed in December 2023. These new wells are presently being sampled quarterly to obtain the requisite eight independent samples. This work is anticipated to be complete by the end of Q1 2026, at which point the new wells are expected to replace existing wells MW-9, MW-10, and MW-11, which are located further south in the valley closer to the original planned/permitted limits of waste placement (associated with Disposal Area Stages IIID and IIIE that will now remain undeveloped along with Stages IIB and IIIC).

3.6 2026 Projected Activities

As noted, it is anticipated that monitoring activities will continue for the Ash Disposal Site during 2026, with continued review of Appendix III/Appendix IV constituent concentrations and comparison against calculated background and established GWPSs. The new downgradient wells (MW-32, MW-33, MW-34, and MW-35) will continue to be sampled quarterly for the requisite eight independent samples.

TABLES

Table 1
Conemaugh Generating Station
Ash Filter Ponds - Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
			Calculated Background						
			0.58	376	1560	0.20	6975	788	4.59-7.42
MW-1B (Upgradient)	17-Dec-15	1070.99	0.29	333	1540	< 0.1	3620	544	5.49
	27-Jan-16	1071.19	0.31	288	1280	< 0.1	3180	583	5.87
	20-Apr-16	1071.69	0.28	170	652	< 0.5	2410	729	6.09
	19-Jul-16	1071.69	0.36	208	1310	< 0.1	2760	575	5.79
	11-Oct-16	1072.99	0.46	192	1010	< 0.2	2640	438	6.56
	17-Jan-17	1072.54	0.43	198	1030	< 0.1	2650	427	5.87
	24-Apr-17	1072.69	0.37	166	988	< 0.1	2470	548	5.27
	20-Jul-17	1072.04	0.39	345	1560	< 0.1	3740	388	5.00
	1-Oct-17	1070.84	0.36	430	2040	< 0.1	4930	427	5.68
	22-May-18	1074.94	0.39	120	640	< 0.1	1680	364	5.91
	18-Oct-18	1074.69	0.89	53	288	3.1	1340	543	7.56
	17-Apr-19	1073.69	0.47	122	467	0.3	1300	369	6.00
	18-Jul-19	1073.79	0.44	155	638	< 0.1	1630	303	5.60
	3-Oct-19	1072.49	0.45	190	848	< 0.1	1930	300	5.33
	15-May-20	1073.92	0.42	218	1170	< 0.1	2510	353	5.41
	23-Oct-20	1072.62	0.39	177	973	< 0.1	2220	414	5.66
	14-Apr-21	1073.46	0.33	96	507	< 0.1	1500	425	6.27
	13-Oct-21	1073.44	0.44	84	408	0.1	1190	404	5.89
	14-Apr-22	1074.97	0.52	111	431	< 0.1	1180	360	5.52
	22-Oct-22	1072.40	0.45	179	747	0.2	1760	263	6.36
	17-Apr-23	1072.75	0.44	222	822	< 0.1	2110	253	5.25
	13-Oct-23	1071.19	0.46	281	1690	< 0.1	2600	357	5.07
	8-Apr-24	1074.13	0.4	256	1130	< 0.1	2770	369	5.85
	21-Oct-24	1073.08	0.55	104	398	< 0.1	1110	316	5.21
	3-Apr-25	1072.75	0.47	92	439	< 0.1	1190	375	5.36
	23-Oct-25	1073.27	0.51	67.8	312	< 0.1	864	323	5.56
MW-2 (Upgradient)	11-Oct-16	1072.72	0.30	191	251	< 0.1	1200	348	6.28
	16-Nov-16	1072.42	0.31	176	94	0.1	868	416	6.95
	21-Dec-16	1073.02	0.41	176	101	0.2	1050	519	7.03
	25-Jan-17	1073.72	0.21	137	68	0.2	726	316	6.93
	21-Mar-17	1073.82	0.33	158	75	0.1	828	387	6.40
	25-Apr-17	1072.92	0.29	136	69	< 0.1	792	373	6.28
	13-Jun-17	1073.02	0.30	150	60	< 0.1	768	369	6.15
	27-Jul-17	1072.57	0.28	133	67	< 0.1	684	310	6.45
	4-Oct-17	1071.17	0.32	138	58	< 0.1	768	330	6.80
	29-May-18	1075.57	0.10	98	22	0.4	606	185	7.10
	23-Oct-18	1075.37	0.18	105	21	0.4	550	192	6.97
	15-Apr-19	1074.12	0.15	99	21	0.4	508	169	7.13
	30-Jul-19	1074.47	0.15	101	19	0.3	572	194	6.80
	9-Oct-19	1072.62	0.26	116	54	0.1	564	304	6.19
	15-May-20	1073.61	0.16	104	18	0.3	534	224	6.27
	23-Oct-20	1072.73	0.28	127	87	0.2	644	345	6.24
	14-Apr-21	1074.11	0.11	100	25	0.4	536	207	7.28
	13-Oct-21	1073.32	0.15	106	16	0.4	536	242	6.34
	14-Apr-22	1074.83	0.13	98	10	0.3	502	181	6.84
	22-Oct-22	1074.45	0.18	113	28	0.3	574	217	7.07
	17-Apr-23	1073.25	0.47	130	100	0.2	806	346	6.38
	13-Oct-23	1071.07	0.37	142	236	< 0.1	900	275	6.37
	8-Apr-24	1074.94	0.14	106	11	0.3	520	166	6.73
	17-Oct-24	1070.82	0.27	102	104	< 0.1	670	282	6.72
	3-Apr-25	1073.62	0.08	105	15.4	0.2	540	236	6.26
	23-Oct-25	1072.72	0.15	111	16.5	0.3	494	218	6.55
MW-3 (Downgradient)	16-Dec-15	1069.49	< 0.05	123	363	< 0.1	882	227	5.74
	26-Jan-16	1070.14	< 0.05	132	392	< 0.1	970	250	5.94
	25-Apr-16	1070.39	< 0.05	203	505	< 0.1	1460	288	6.52
	25-Jul-16	1069.24	< 0.05	115	343	< 0.1	972	225	5.72
	24-Oct-16	1070.44	< 0.05	123	304	< 0.1	902	211	6.01
	17-Jan-17	1071.19	< 0.05	113	370	< 0.1	976	245	5.95
	25-Apr-17	1071.34	< 0.05	181	552	< 0.1	1740	314	5.57
	25-Jul-17	1070.24	< 0.05	151	389	< 0.1	1270	256	5.47
	1-Oct-17	1069.14	< 0.05	135	387	< 0.1	1140	255	6.30
	23-May-18	1072.04	< 0.05	175	455	< 0.1	1330	276	6.07
	23-Oct-18	1072.54	< 0.05	152	440	< 0.1	1150	293	5.75
	22-Apr-19	1071.34	< 0.05	181	553	< 0.1	1440	353	5.97
	30-Jul-19	1071.84	< 0.05	170	497	< 0.1	1720	291	5.66
	21-Oct-19	1070.54	< 0.05	143	432	< 0.1	1110	261	5.54
	13-May-20	1072.22	< 0.05	155	464	< 0.1	1320	354	5.98
	23-Oct-20	1070.26	< 0.05	122	397	< 0.1	1070	220	5.72
	14-Apr-21	1071.70	< 0.05	173	501	< 0.1	1370	309	6.48
	13-Oct-21	1071.49	< 0.05	142	456	< 0.1	1290	236	5.65
	14-Apr-22	1072.95	< 0.05	165	478	< 0.1	1260	372	5.65
	22-Oct-22	1070.89	< 0.05	166	492	< 0.1	1260	271	6.88
	17-Apr-23	1071.95	< 0.05	152	349	< 0.1	1260	402	5.81
	13-Oct-23	1069.32	< 0.05	136	327	< 0.1	1100	216	6.18
	8-Apr-24	1068.02	< 0.05	130	310	< 0.1	1170	389	5.58
	18-Oct-24	1066.47	< 0.05	131	376	< 0.1	1030	201	5.84
	3-Apr-25	1067.34	< 0.05	146	391	< 0.1	1250	508	5.68
	23-Oct-25	1066.94	< 0.005	101	225	< 0.1	938	471	5.83

See notes at end of table.

Table 1
Conemaugh Generating Station
Ash Filter Ponds - Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
			Calculated Background						
			0.58	376	1560	0.20	6975	788	4.59-7.42
MW-4 (Downgradient)	21-Dec-15	1069.53	0.15	301	643	< 0.1	2470	874	5.77
	4-Feb-16	1069.73	0.13	316	654	< 0.1	2580	870	5.83
	26-Apr-16	1070.08	0.13	426	932	< 0.1	3390	965	6.19
	25-Jul-16	1068.98	0.12	346	874	< 0.1	3120	1090	5.82
	26-Oct-16	1070.08	0.17	310	670	< 0.1	2530	865	6.27
	30-Jan-17	1070.88	0.15	301	736	< 0.1	2740	895	6.12
	26-Apr-17	1070.93	0.14	392	863	< 0.1	3310	996	6.68
	27-Jul-17	1070.23	0.19	403	977	< 0.1	3350	1170	5.63
	4-Oct-17	1068.83	0.14	335	814	< 0.2	3200	1050	6.02
	29-May-18	1070.53	0.13	345	842	< 0.1	3280	1010	5.96
	24-Oct-18	1071.93	0.14	290	589	< 0.1	2550	927	5.99
	22-Apr-19	1070.88	0.10	316	800	< 0.1	2470	892	5.98
	31-Jul-19	1071.03	0.12	292	650	< 0.1	2430	854	5.62
	21-Oct-19	1070.33	0.16	401	831	< 0.1	3030	1150	5.80
	13-May-20	1071.57	0.12	306	644	< 0.1	2480	987	6.46
	23-Oct-20	1069.91	0.14	296	560	< 0.1	2320	980	6.14
	14-Apr-21	1071.15	0.07	276	557	< 0.1	2100	766	5.83
	13-Oct-21	1071.06	0.16	340	612	< 0.1	2490	1120	6.02
	14-Apr-22	1072.16	0.1	322	628	< 0.1	2060	796	5.80
	22-Oct-22	1070.34	0.14	290	484	< 0.1	2160	780	6.63
	17-Apr-23	1071.56	0.09	294	547	< 0.1	2200	736	6.03
	13-Oct-23	1068.78	0.15	346	452	0.2	2330	936	6.59
	8-Apr-24	1071.68	0.09	253	392	< 0.1	1770	615	5.74
	18-Oct-24	1070.51	0.11	260	342	0.1	1660	707	6.13
	3-Apr-25	1070.82	0.05	358	771	< 0.1	2490	911	5.71
	23-Oct-25	1070.63	0.09	252	452	< 0.1	1560	701	6.00
MW-23 (Downgradient)	20-Dec-15	1068.03	< 0.05	182	388	< 0.1	1580	653	5.59
	2-Feb-16	1069.08	< 0.05	176	344	< 0.1	1520	576	5.98
	25-Apr-16	1069.38	< 0.05	175	329	< 0.1	1540	557	5.16
	21-Jul-16	1067.93	0.34	173	371	< 0.1	1600	591	5.63
	24-Oct-16	1068.83	< 0.05	173	327	< 0.1	1540	509	6.14
	18-Jan-17	1070.13	0.11	165	368	< 0.1	1550	543	5.79
	24-Apr-17	1069.68	< 0.05	164	383	< 0.1	1520	558	5.21
	24-Jul-17	1069.18	< 0.05	183	378	< 0.1	1530	532	5.15
	1-Oct-17	1067.98	< 0.05	172	313	< 0.1	1520	575	6.25
	22-May-18	1071.18	< 0.05	181	347	< 0.1	1460	507	5.63
	22-Oct-18	1071.13	< 0.05	165	355	< 0.1	1450	538	5.70
	17-Apr-19	1070.28	< 0.05	153	346	< 0.1	1320	527	5.52
	18-Jul-19	1070.73	< 0.05	164	309	< 0.1	1330	469	5.54
	9-Oct-19	1068.48	< 0.05	143	350	< 0.1	1320	534	5.69
	13-May-20	1071.91	0.05	139	363	< 0.1	1260	491	5.74
	23-Oct-20	1069.18	< 0.05	144	349	< 0.1	1330	544	5.61
	14-Apr-21	1070.55	< 0.05	123	280	< 0.1	1150	459	5.01
	13-Oct-21	1068.88	0.06	106	242	< 0.1	1030	463	5.51
	14-Apr-22	1073.09	< 0.05	114	258	< 0.1	1070	456	5.52
	22-Oct-22	1069.42	0.06	119	257	< 0.1	1110	449	6.28
	17-Apr-23	1070.89	0.06	113	227	< 0.1	1050	398	5.60
	13-Oct-23	1068.83	0.05	104	199	< 0.1	908	351	6.04
	8-Apr-24	1072.38	< 0.05	81	154	< 0.1	758	290	5.40
	17-Oct-24	1069.53	0.05	100	202	< 0.1	970	407	5.47
	3-Apr-25	1070.73	< 0.05	58.4	119	< 0.1	544	276	5.14
	23-Oct-25	1070.83	< 0.05	78.2	174	< 0.1	694	333	5.49

Notes:

- Cells with "<" are represented as non-detects. Values shown correspond to the laboratory reporting limit.
- Background values based on statistical evaluation of initial eight rounds (December 2015 through July 2017) of groundwater sampling data for Wells MW-1B and MW-2.

Table 2
Conemaugh Generating Station
Ash Filter Ponds - Groundwater Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
		Calculated Background														
		0.001	0.001	0.04	0.001	0.005	0.01	0.013	0.2	0.001	0.03	0.0002	0.02	0.001	0.0002	4.24
		Groundwater Protection Standard														
		MCL 0.006	MCL 0.01	MCL 2	MCL 0.004	MCL 0.005	MCL 0.1	Background 0.006	MCL 4.0	RSL 0.015	RSL 0.04	MCL 0.002	RSL 0.10	MCL 0.05	MCL 0.002	MCL 5
MW-1B (Upgradient)	17-Dec-15	< 0.001	< 0.001	0.04	< 0.001	0.005	< 0.01	0.012	< 0.1	< 0.001	0.03	< 0.0002	< 0.02	< 0.001	< 0.0002	4.24
	27-Jan-16	< 0.001	< 0.001	0.03	< 0.001	0.005	< 0.01	0.005	< 0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	0.29
	20-Apr-16	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.005	< 0.5	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.72
	19-Jul-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.006	0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	1.31
	11-Oct-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	0.2	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	0.78
	17-Jan-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	0.24
	24-Apr-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.77
MW-2 (Upgradient)	20-Jul-17	< 0.001	< 0.001	0.03	< 0.001	0.005	< 0.01	0.013	< 0.1	< 0.001	0.02	< 0.0002	< 0.02	< 0.001	< 0.0002	1.03
	11-Oct-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.69
	16-Nov-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.44
	21-Dec-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	0.2	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
	25-Jan-17	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.005	0.2	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.88
	21-Mar-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.09
	25-Apr-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.35
MW-3 (Downgradient)	13-Jun-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	0.001	< 0.0002	0.80
	27-Jul-17	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.005	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.14
	16-Dec-15	< 0.001	< 0.001	0.04	< 0.001	0.002	< 0.01	0.009	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.44
	26-Jan-16	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.011	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.86
	25-Apr-16	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.014	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.60
	25-Jul-16	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.009	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.46
	24-Oct-16	< 0.001	< 0.001	0.04	< 0.001	0.002	< 0.01	0.012	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.34
MW-4 (Downgradient)	17-Jan-17	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.008	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.28
	25-Apr-17	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.013	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.45
	25-Jul-17	< 0.001	< 0.001	0.03	< 0.001	0.002	< 0.01	0.010	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.33
	21-Dec-15	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.039	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.20
	4-Feb-16	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.038	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.47
	26-Apr-16	< 0.001	< 0.001	0.02	< 0.001	0.003	< 0.01	0.039	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.15
	25-Jul-16	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.035	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
MW-23 (Downgradient)	26-Oct-16	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.037	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.72
	30-Jan-17	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.034	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.09
	26-Apr-17	< 0.001	< 0.001	0.01	< 0.001	0.004	< 0.01	0.041	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.73
	27-Jul-17	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.039	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.24
	20-Dec-15	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.114	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	6.87
	2-Feb-16	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.106	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.03
	25-Apr-16	< 0.001	0.001	0.01	< 0.001	0.002	< 0.01	0.123	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.56
MW-23 (Downgradient)	21-Jul-16	< 0.001	< 0.001	0.01	< 0.001	0.003	< 0.01	0.114	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.65
	24-Oct-16	< 0.001	0.001	0.02	< 0.001	0.002	< 0.01	0.099	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.12
	18-Jan-17	< 0.001	< 0.001	0.02	< 0.001	0.002	< 0.01	0.100	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.66
	24-Apr-17	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.097	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.40
	24-Jul-17	< 0.001	< 0.001	0.01	< 0.001	0.002	< 0.01	0.095	< 0.1	< 0.001	0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.21

Notes:

1. Cells with "<" are represented as non-detects. Values shown correspond to the laboratory reporting limit.

2. Background values based on statistical evaluation of initial eight rounds (December 2015 through July 2017) of groundwater sampling data for Wells MW-1B and MW-2.

3. As indicated, Groundwater Protection Standards are either published MCLs or risk-based Regional Screening Levels (RSLs). For constituents where calculated background exceeds either the MCL or RSL, the background value is used.

Table 3
Conemaugh Generating Station
Ash Disposal Site - Groundwater Analytical Data
CCR Appendix III Constituents

Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)	Total Calcium (mg/L)	Total Chloride (mg/L)	Total Fluoride (mg/L)	Total Dissolved Solids (mg/L)	Sulfate (mg/L)	pH (S.U.)
			Calculated Background						
			0.05	8.86	1	0.1	96.24	4	4.07-6.81
MW-31 (Upgradient)	20-Dec-15	1435.54	< 0.05	6.2	1	< 0.1	50	4	6.15
	1-Feb-16	1438.04	< 0.05	7.1	1	< 0.1	34	4	6.42
	20-Apr-16	1439.54	< 0.05	7.8	1	< 0.1	44	4	6.45
	20-Jul-16	1435.89	< 0.05	6.3	1	< 0.1	58	4	6.24
	25-Oct-16	1436.24	< 0.05	6.7	1	< 0.1	70	4	5.82
	19-Jan-17	1438.74	< 0.05	6.4	1	< 0.1	64	3	6.19
	12-Apr-17	1439.74	< 0.05	6.2	1	< 0.1	52	4	5.75
	25-Jul-17	1437.24	< 0.05	7.4	1	< 0.1	72	4	5.62
	3-Oct-17	1434.49	< 0.05	6.6	1	< 0.1	32	4	6.36
	24-May-18	1441.64	< 0.05	6.2	1	< 0.1	58	4	6.29
	22-Oct-18	1439.94	< 0.05	84.9	1	< 0.1	40	4	6.17
	18-Apr-19	1440.19	< 0.05	6.0	1	< 0.1	32	4	6.01
	25-Jul-19	1438.14	< 0.05	5.7	1	< 0.1	54	4	5.74
	2-Oct-19	1435.54	< 0.05	6.3	1	< 0.1	44	4	5.36
	14-Jan-20	1439.43	< 0.05	6.2	1	< 0.1	52	4	3.77
	14-May-20	1440.37	< 0.05	5.6	1	< 0.1	40	4	6.24
	26-Oct-20	1434.56	< 0.05	6.0	1	< 0.1	54	4	5.82
	13-Apr-21	1439.70	< 0.05	5.7	1	< 0.1	40	4	6.48
	12-Oct-21	1437.99	< 0.05	6.1	1	< 0.1	52	4	5.66
	14-Apr-22	1441.04	< 0.05	5.9	1	< 0.1	40	4	6.03
	17-Oct-22	1436.89	< 0.05	5.6	1	< 0.1	42	4	5.73
	13-Apr-23	1439.64	< 0.05	5.4	1	< 0.1	48	4	5.92
	11-Oct-23	1435.56	< 0.05	5.5	1	< 0.1	34	4	5.64
	9-Apr-24	1441.54	< 0.05	6.1	1	0.1	42	4	5.19
	23-Oct-24	1433.96	< 0.05	5.9	1	< 0.1	50	4	5.73
	1-Apr-25	1438.14	< 0.05	5.8	1.0	< 0.1	38	4.0	4.00
	27-Oct-25	1434.44	< 0.05	5.9	1.1	< 0.1	46	4.3	5.60
MW-9 (Downgradient)	17-Dec-15	1100.47	< 0.05	102	83	0.1	426	72	7.08
	28-Jan-16	1100.57	0.09	102	97	0.1	424	63	7.20
	21-Apr-16	1099.77	< 0.05	96	81	0.1	398	65	7.38
	20-Jul-16	1098.97	0.05	99	93	< 0.1	466	62	7.57
	16-Nov-16	1099.82	< 0.05	104	94	< 0.1	466	55	7.05
	23-Jan-17	1100.77	< 0.05	96	92	< 0.1	406	65	7.27
	12-Apr-17	1099.47	< 0.05	96	96	< 0.1	446	77	6.74
	24-Jul-17	1099.82	< 0.05	104	98	< 0.1	456	79	6.60
	2-Oct-17	1099.67	< 0.05	94	92	< 0.1	430	75	7.41
	23-May-18	1100.17	< 0.05	104	112	< 0.1	456	84	7.29
	17-Oct-18	1100.32	< 0.05	102	109	< 0.1	472	67	7.09
	23-Apr-19	1100.07	0.31	106	118	0.1	472	73	7.12
	23-Jul-19	1099.97	< 0.05	107	120	0.1	520	72	7.15
	8-Oct-19	1099.02	< 0.05	116	116	< 0.1	500	72	7.35
	15-Jan-20	1100.46	< 0.05	112	134	< 0.1	468	69	4.89
	8-May-20	1100.49	< 0.05	100	129	< 0.1	504	71	7.30
	21-Oct-20	1098.77	< 0.05	102	103	0.1	486	70	7.09
	13-Apr-21	1100.09	< 0.05	97	103	< 0.1	438	73	7.57
	14-Oct-21	1099.37	< 0.05	101	121	0.1	490	69	6.76
	12-Apr-22	1101.35	< 0.05	98	116	< 0.1	480	78	6.98
	19-Oct-22	1100.82	< 0.05	96	93	< 0.1	398	59	7.16
	12-Apr-23	1101.56	< 0.05	96	96	< 0.1	424	59	6.80
	17-Oct-23	1100.12	< 0.05	101	96	< 0.1	434	59	6.37
	11-Apr-24	1101.47	< 0.05	102	97	< 0.1	394	56	6.77
	15-Oct-24	1099.75	< 0.05	98	96	< 0.1	416	57	6.70
	1-Apr-25	1098.67	< 0.05	94.1	94.3	0.1	388	62.5	5.48
	20-Oct-25	1099.67	< 0.05	102	90.6	0.1	344	63.8	6.78

See notes at end of table.

Table 3 Conemaugh Generating Station Ash Disposal Site - Groundwater Analytical Data CCR Appendix III Constituents																
Monitoring Well	Date Sampled	Groundwater Elevation (ft. MSL)	Total Boron (mg/L)		Total Calcium (mg/L)		Total Chloride (mg/L)		Total Fluoride (mg/L)		Total Dissolved Solids (mg/L)		Sulfate (mg/L)		pH (S.U.)	
			Calculated Background													
			0.05	8.86	1	0.1	96.24	4	4.07-6.81							
MW-10 (Downgradient)	16-Dec-15	1103.26	<	0.05	106	90	0.1	444	97	7.71						
	1-Feb-16	1103.36	<	0.05	102	100	0.1	416	107	7.56						
	19-Apr-16	1103.06	<	0.05	102	95	0.1	454	99	7.45						
	25-Jul-16	1102.16	<	0.05	100	91	0.1	476	114	7.25						
	25-Oct-16	1102.16	<	0.05	117	84	0.1	522	113	7.50						
	25-Jan-17	1103.86	<	0.05	94	105	<	482	110	7.21						
	13-Apr-17	1102.86	<	0.05	97	99	<	460	97	6.77						
	26-Jul-17	1102.66	<	0.05	108	94	<	508	127	6.75						
	3-Oct-17	1102.61	<	0.05	111	91	0.1	490	130	7.38						
	29-May-18	1104.76	<	0.05	99	99	0.1	492	106	7.14						
	17-Oct-18	1103.66	<	0.05	98	89	0.1	456	106	7.10						
	18-Apr-19	1103.46	<	0.05	85	103	<	388	103	7.06						
	25-Jul-19	1102.86	<	0.05	108	94	0.1	476	120	7.07						
	8-Oct-19	1102.06	<	0.05	110	84	<	470	123	7.35						
	14-Jan-20	1103.85	<	0.05	87	123	0.1	466	117	4.86						
	8-May-20	1103.66	<	0.05	84	103	0.1	424	106	6.84						
	20-Oct-20	1101.93	<	0.05	102	85	<	468	120	7.20						
	13-Apr-21	1103.24	<	0.05	102	104	<	478	119	7.48						
	12-Oct-21	1101.76	<	0.05	101	97	0.1	484	124	6.34						
	11-Apr-22	1104.42	<	0.05	86	106	<	408	106	6.81						
	19-Oct-22	1103.88	<	0.05	108	100	0.1	446	122	7.12						
	12-Apr-23	1104.78	<	0.05	90	94	0.1	454	95	6.96						
	16-Oct-23	1103.30	<	0.05	103	83	0.1	446	94	6.89						
	11-Apr-24	1104.64	<	0.05	87	87	0.1	440	99	6.68						
	15-Oct-24	1102.64	<	0.05	96	78	0.1	424	90	6.86						
	MW-11 (Downgradient)	1-Apr-25	1103.56	<	0.05	98.7	99.9	<	444	115	5.64					
		20-Oct-25	1102.76	<	0.05	107	86.6	0.2	374	98.2	6.87					
21-Dec-15		1102.68		0.08	180	55	0.1	814	223	6.77						
27-Jan-16		1103.38		0.09	169	48	<	776	191	7.02						
21-Apr-16		1102.63		0.07	161	46	<	754	170	7.31						
21-Jul-16		1101.68		0.14	156	52	<	754	208	7.37						
20-Oct-16		1101.93		0.09	166	48	0.1	754	199	6.97						
23-Jan-17		1103.63	<	0.05	164	51	0.1	770	207	6.98						
13-Apr-17		1103.28		0.07	170	49	<	774	183	6.65						
26-Jul-17		1102.33		0.10	150	60	<	700	182	6.35						
2-Oct-17		1102.48		0.07	151	61	0.1	732	210	7.20						
24-May-18		1103.08	<	0.05	139	54	0.1	736	192	7.02						
18-Oct-18		1102.93		0.07	169	60	0.1	750	194	6.94						
23-Apr-19		1102.88		0.37	159	58	0.2	758	213	6.58						
23-Jul-19		1102.73		0.06	153	59	0.1	714	185	6.73						
8-Oct-19		1101.78		0.08	165	60	<	700	181	6.74						
14-Jan-20		1103.38		0.07	157	58	0.2	730	193	4.61						
8-May-20		1103.16		0.07	156	58	<	718	190	6.91						
20-Oct-20		1101.49	<	0.05	152	58	<	710	179	6.80						
12-Apr-21		1103.28		0.06	144	59	0.1	686	182	7.26						
11-Oct-21		1102.56		0.08	147	63	<	710	219	7.03						
11-Apr-22		1104.18		0.07	153	60	0.1	700	190	6.65						
19-Oct-22		1103.46		0.08	144	64	<	646	174	6.82						
12-Apr-23		1104.41		0.07	139	53	0.1	688	155	6.78						
16-Oct-23		1103.13		0.09	146	58	<	704	161	6.14						
11-Apr-24		1104.29		0.06	145	55	0.1	684	173	6.54						
15-Oct-24		1102.48		0.06	141	56	<	654	158	6.57						
1-Apr-25	1105.83		0.07	143	59.5	0.1	624	183	6.08							
21-Oct-25	1102.73		0.06	96.6	55.4	0.3	376	81.8	6.91							

Notes:

- Cells with "<" are represented as non-detects. Values shown correspond to the laboratory reporting limit.
- Background values based on statistical evaluation of initial eight rounds (December 2015 through July 2017) of groundwater sampling data for Well MW-31.

Table 4
Conemaugh Generating Station
Ash Disposal Site - Groundwater Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
		Calculated Background														
		0.001	0.001	0.02	0.001	0.002	0.01	0.005	0.1	0.001	0.01	0.0002	0.02	0.001	0.0002	1.89
		Groundwater Protection Standard														
		MCL	MCL	MCL	MCL	MCL	MCL	RSL	MCL	RSL	RSL	MCL	RSL	MCL	RSL	MCL
0.006	0.01	2	0.004	0.005	0.1	0.006	4.0	0.15	0.04	0.002	0.10	0.05	0.002	5		
MW-31 (Upgradient)	20-Dec-15	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	14.1
	1-Feb-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.08
	20-Apr-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.75
	20-Jul-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.77
	25-Oct-16	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.42
	19-Jan-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.03
	12-Apr-17	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.51
	25-Jul-17	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.05
	28-Mar-18	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.63
	24-May-18	Not Analyzed	Not Analyzed	< 0.01	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.40
	22-Oct-18	Not Analyzed	Not Analyzed	0.01	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.71
	18-Apr-19	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.30
	25-Jul-19	Not Analyzed	Not Analyzed	0.01	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.88
	2-Oct-19	Not Analyzed	Not Analyzed	0.01	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	-0.50
	14-Jan-20	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.38
	14-May-20	Not Analyzed	Not Analyzed	0.01	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.30
	26-Oct-20	Not Analyzed	Not Analyzed	0.02	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.13
	13-Apr-21	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.73
	12-Oct-21	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.64
	14-Apr-22	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.48
	17-Oct-22	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.32
	13-Apr-23	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.06
	11-Oct-23	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.45
	9-Apr-24	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.71
	23-Oct-24	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.40
	1-Apr-25	< 0.001	< 0.001	< 0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.298
	27-Oct-25	< 0.001	< 0.001	0.01	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.53
MW-9 (Downgradient)	17-Dec-15	< 0.001	< 0.001	0.17	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	3.66
	28-Jan-16	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.18
	21-Apr-16	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	3.90
	20-Jul-16	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.05
	16-Nov-16	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.78
	23-Jan-17	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.70
	12-Apr-17	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.03
	24-Jul-17	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.74
	28-Mar-18	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.37
	23-May-18	Not Analyzed	Not Analyzed	0.04	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.32
	17-Oct-18	Not Analyzed	Not Analyzed	0.05	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.67
	23-Apr-19	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.92
	23-Jul-19	Not Analyzed	Not Analyzed	0.06	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.60
	8-Oct-19	Not Analyzed	Not Analyzed	0.06	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.54
	15-Jan-20	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.002	0.22
	8-May-20	Not Analyzed	Not Analyzed	0.05	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.60
	21-Oct-20	Not Analyzed	Not Analyzed	0.05	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	< 0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.04
	13-Apr-21	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.58
	14-Oct-21	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43
	12-Apr-22	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.14
	19-Oct-22	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.49
	12-Apr-23	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	< 0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.12
	17-Oct-23	< 0.001	< 0.001	0.05	< 0.00.											

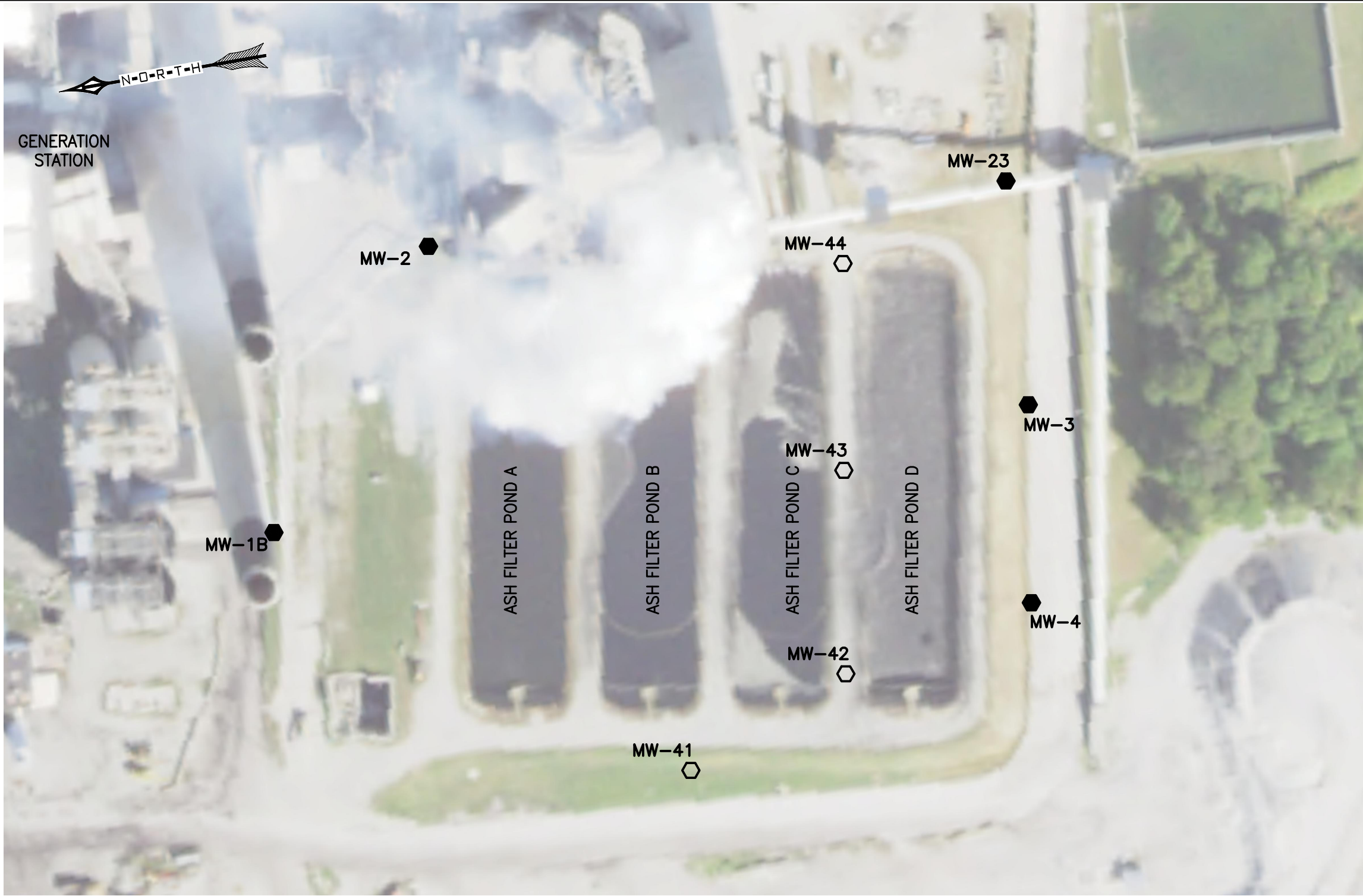
See notes at end of table.

Table 4
Conemaugh Generating Station
Ash Disposal Site - Groundwater Analytical Data
CCR Appendix IV Constituents

Monitoring Well	Date Sampled	Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Fluoride (mg/L)	Total Lead (mg/L)	Total Lithium (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Selenium (mg/L)	Total Thallium (mg/L)	Total Radium-226 and 228 (pCi/L)
		Calculated Background														
		0.001	0.001	0.02	0.001	0.002	0.01	0.005	0.1	0.001	0.01	0.0002	0.02	0.001	0.0002	1.89
		Groundwater Protection Standard														
MCL	MCL	MCL	MCL	MCL	MCL	MCL	RSL	MCL	RSL	RSL	MCL	RSL	MCL	MCL	MCL	
0.006	0.01	2	0.004	0.005	0.1	0.006	4.0	0.15	0.04	0.002	0.10	0.05	0.002	5		
MW-10 (Downgradient)	16-Dec-15	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.04
	1-Feb-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.25
	19-Apr-16	< 0.001	< 0.001	0.10	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.68
	25-Jul-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.55
	25-Oct-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.62
	25-Jan-17	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.29
	13-Apr-17	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.34
	26-Jul-17	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.05
	29-Mar-18	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.29
	29-May-18	Not Analyzed	Not Analyzed	0.03	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.33
	17-Oct-18	Not Analyzed	Not Analyzed	0.04	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.48
	18-Apr-19	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.79
	25-Jul-19	Not Analyzed	Not Analyzed	0.03	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.05
	8-Oct-19	Not Analyzed	Not Analyzed	0.04	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.15
	14-Jan-20	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.13
	8-May-20	Not Analyzed	Not Analyzed	0.03	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.60
	20-Oct-20	Not Analyzed	Not Analyzed	0.03	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	-0.02
	13-Apr-21	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.07
	12-Oct-21	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.54
	11-Apr-22	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.02
	19-Oct-22	< 0.001	< 0.001	0.04	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.38
12-Apr-23	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.31	
16-Oct-23	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.05	
11-Apr-24	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.43	
15-Oct-24	< 0.001	< 0.001	0.02	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	-0.31	
1-Apr-25	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.011	
20-Oct-25	< 0.001	< 0.001	0.03	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.560	
MW-11 (Downgradient)	21-Dec-15	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	2.21
	27-Jan-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.33
	21-Apr-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	3.18
	21-Jul-16	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.70
	20-Oct-16	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.93
	23-Jan-17	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.48
	13-Apr-17	< 0.001	< 0.001	0.07	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	1.46
	26-Jul-17	< 0.001	< 0.001	0.05	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.80
	29-Mar-18	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.78
	24-May-18	Not Analyzed	Not Analyzed	0.07	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.83
	18-Oct-18	Not Analyzed	Not Analyzed	0.07	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	1.20
	23-Apr-19	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.84
	23-Jul-19	Not Analyzed	Not Analyzed	0.07	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.57
	8-Oct-19	Not Analyzed	Not Analyzed	0.07	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.45
	14-Jan-20	< 0.001	< 0.001	0.08	< 0.001	< 0.002	< 0.01	< 0.005	0.2	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.48
	8-May-20	Not Analyzed	Not Analyzed	0.07	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.68
	20-Oct-20	Not Analyzed	Not Analyzed	0.05	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.1	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.08
	12-Apr-21	< 0.001	< 0.001	0.06	< 0.001	< 0.002	< 0.01	< 0.005	0.1	< 0.001	< 0.01	< 0.0002	< 0.02	< 0.001	< 0.0002	0.62
	11-Oct-21	< 0.001	< 0.001	0.09	< 0.001	< 0.002</										

FIGURES

PLOTTED ON: 12/16/2024 1:02:14 PM
 PLOTTED BY: Kevin R. Apel
 PLOT FILE: GAI.stb



- LEGEND:**
- MW** CCR GROUNDWATER MONITORING NETWORK WELLS UTILIZED FOR COMPLIANCE (SEE NOTE 2)
 - MW** NEW DOWNGRAIDENT WELLS (SEE NOTE 3)

- NOTE:**
- MONITORING POINT LOCATIONS ARE APPROXIMATE.
 - THESE WELLS COMPRISE THE CCR GROUNDWATER MONITORING SYSTEM CURRENTLY UTILIZED FOR CCR RULE COMPLIANCE. THESE WELLS HAVE BEEN MONITORED FOR COMPLIANCE SINCE 2017.
 - THESE WELLS WERE INSTALLED IN DECEMBER 2023 AND ARE CURRENTLY BEING SAMPLED QUARTERLY TO OBTAIN THE REQUISITE EIGHT INDEPENDENT SAMPLES. UPON COMPLETION OF THE INDEPENDENT SAMPLING PROGRAM, THE WELLS ARE ANTICIPATED TO BECOME PART OF THE REVISED CCR GROUNDWATER MONITORING NETWORK USED FOR COMPLIANCE.
 - ASH FILTER POND D WAS REMOVED FROM SERVICE AND STABILIZED ACCORDING TO THE CLOSURE PLAN IN 2024.

SCALE: 1" = 100'



						DRAWING TITLE		ISSUE DATE:	DRAWN BY:	
						FIGURE 1 - ASH FILTER PONDS GROUNDWATER MONITORING SYSTEM MAP		12/13/2024	APELKR	
						PROJECT	 gai consultants	CLIENT	CHECKED BY:	
						CCR RULE COMPLIANCE ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT		CONEMAUGH GENERATING STATION 1442 POWER PLANT ROAD NEW FLORENCE, PENNSYLVANIA 15944	SCALE:	ROUNDCLL
									AS SHOWN	APPROVED BY:
									REVISION 	SCHELAB
										SHEET NO.:
NO.:	DATE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DESCRIPTION:				1 OF 1	
REVISION RECORD										
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.						GAI FILE NUMBER:		GAI DRAWING NUMBER:		
ISSUING OFFICE: Pittsburgh 385 E. Waterfront Drive, Homestead, PA 15120						C151611-10-000-00-C-B2-001		B2-001		
GAI CAD FILE PATH: Z:\Energy\2015\C151611.10 – KeyCon Con 24–25 CCR Comp\CAD\ACAD\Production DWGs\Task .005\C151611–10–000–00–C–B2–001.dwg						© 2024 GAI Consultants				



LEGEND:



MW

CCR GROUNDWATER
MONITORING NETWORK WELLS
UTILIZED FOR COMPLIANCE
(SEE NOTE 2)



MW

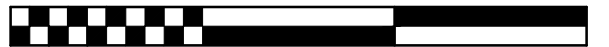
NEW DOWNGRAIDENT WELLS
(SEE NOTE 3)

----- DISPOSAL SITE BOUNDARY

NOTES:

1. MONITORING POINT LOCATIONS ARE APPROXIMATE.
2. THESE WELLS ARE CURRENTLY UTILIZED FOR CCR RULE COMPLIANCE. THESE WELLS HAVE BEEN MONITORED FOR COMPLIANCE SINCE 2017.
3. THESE WELLS WERE INSTALLED IN DECEMBER 2023 AND ARE CURRENTLY BEING SAMPLED QUARTERLY TO OBTAIN THE REQUISITE EIGHT INDEPENDENT SAMPLES. UPON COMPLETION OF THE INDEPENDENT SAMPLING PROGRAM, THE WELLS ARE ANTICIPATED TO BECOME PART OF THE REVISED CCR GROUNDWATER MONITORING NETWORK USED FOR COMPLIANCE.

SCALE: 1" = 1000'



1000 0 1000 2000

PLOTTED ON: 12/16/2024 1:14:39 PM PLOTTED BY: Kevin R. Apel PLOT FILE: GAI.stb

						DRAWING TITLE			ISSUE DATE:	DRAWN BY:
						FIGURE 2 - ASH/REFUSE DISPOSAL SITE GROUNDWATER MONITORING SYSTEM MAP			12/13/2024	APELKR
						PROJECT		 gai consultants	CLIENT	
						CCR RULE COMPLIANCE ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT			CONEMAUGH GENERATING STATION	
									1442 POWER PLANT ROAD	
									NEW FLORENCE, PENNSYLVANIA 15944	
NO.:	DATE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DESCRIPTION:				REVISION 	APPROVED BY: SCHELAB
REVISION RECORD									SHEET NO.: 1 OF 1	
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ISSUING OFFICE: Pittsburgh 385 E. Waterfront Drive, Homestead, PA 15120						C151611-10-000-00-C-B2-002			B2-002	
GAI CAD FILE PATH: Z:\Energy\2015\C151611.10 – KeyCon Con 24–25 CCR Comp\CAD\ACAD\Production DWGs\Task .005\C151611–10–000–00–C–B2–002.dwg										
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