



Kincaid Generation, LLC
1500 Eastport Plaza Dr.
Collinsville, IL 62234

January 30, 2024

Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Re: Kincaid Ash Pond (IEPA ID: W0218140002-01) 2023 Annual Consolidated Report

Dear Mr. LeCrone:

In accordance with 35 IAC § 845.550, Kincaid Generation, LLC is submitting the annual consolidated report for the Kincaid Ash Pond (IEPA ID: W0218140002-01), as enclosed.

Sincerely,

A handwritten signature in blue ink, appearing to read "Phil Morris".

Phil Morris
Senior Environmental Director

Enclosures

Annual Consolidated Report
Kincaid Generation, LLC
Kincaid Power Plant
Ash Pond; IEPA ID: **W0218140002-01**

In accordance with 35 IAC § 845.550, Kincaid Generation, LLC has prepared the annual consolidated report. The report is provided in three sections as follows:

Section 1

1) Annual CCR fugitive dust control report (Section 845.500(c))

Section 2

2) Annual inspection report (Section 845.540(b)), including:

- A) Annual hazard potential classification certification
- B) Annual structural stability assessment certification
- C) Annual safety factor assessment certification
- D) Inflow design flood control system plan certification

Section 3

3) Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Section 1

Annual CCR Fugitive Dust Control Report

Annual CCR Fugitive Dust Control Report

for

Kincaid Power Plant

Prepared for:



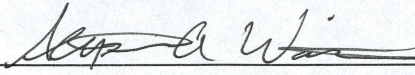
Kincaid Generation, LLC

**Kincaid Power Plant
4 Miles West of Kincaid on Route 104
Kincaid, IL 62540**

October 2023

Kincaid Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT

Reporting Year: 4th Quarter 2022 through 3rd Quarter 2023

Completed by:  *Plant Manager*
Name Title

This Annual CCR Fugitive Dust Control Report has been prepared for the Kincaid Power Plant in accordance with 40 CFR 257.80(c) and 35 I.A.C. 845.500. Section 1 provides a description of the actions taken to control CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken. Section 2 provides a record of citizen complaints received concerning CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken.

Section 1 Actions Taken to Control CCR Fugitive Dust

In accordance with the Kincaid Power Plant CCR Fugitive Dust Control Plan (Plan), the following measures were used to control CCR fugitive dust from becoming airborne at the facility during the reporting year:

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Management of CCR in the facility's CCR units	Wet management of CCR bottom ash in CCR surface impoundment.
	Water areas of exposed CCR in CCR unit, as necessary.
	Naturally occurring grass vegetation in areas of exposed CCR in CCR surface impoundment.
Handling of CCR at the facility	Wet sluice CCR bottom ash to the CCR surface impoundment.
	Pneumatically convey dry CCR fly ash to storage silos in an enclosed system.
	CCR bottom ash removed from the CCR surface impoundment and loaded into trucks for transport remains conditioned during handling.
	Load CCR transport trucks from the CCR fly ash silos in a partially enclosed area.

**Kincaid Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT**

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Handling of CCR at the facility	Perform housekeeping, as necessary, in the fly ash loading area.
	Operate fly ash handling system in accordance with good operating practices.
	Maintain and repair as necessary dust controls on the fly ash handling system.
Transportation of CCR at the facility for onsite and offsite disposal	Cover or enclose trucks or containers used to transport CCR fly ash.
	Limit the speed of vehicles to no more than 15 mph on facility roads.
	Cover or enclose trucks or containers used to transport CCR other than fly ash, as necessary.
	Watering roads used to transport CCR materials, as needed.
	Sweep or rinse off the outside of the trucks transporting CCR, as necessary.
	Remove CCR, as necessary, deposited on facility road surfaces during transport.

Based on a review of the Plan and inspections associated with CCR fugitive dust control performed in the reporting year, the control measures identified in the Plan as implemented at the facility effectively minimized CCR from becoming airborne at the facility. No corrective actions were needed during the reporting period. No revisions or additions to control measures identified in the Plan were needed. No material changes occurred in the reporting year in site conditions potentially resulting in CCR fugitive dust becoming airborne at the facility that warrant amendment of the Plan.

Section 2 Record of Citizen Complaints

No citizen complaints were received regarding CCR fugitive dust at Kincaid Power Plant in the reporting year.

Section 2

Annual inspection report (Section 845.540(b)), including:

A) Annual hazard potential classification certification, if applicable (Section 845.440)

B) Annual structural stability assessment certification, if applicable (Section 845.450)

C) Annual safety factor assessment certification, if applicable (Section 845.460)

D) Inflow design flood control system plan certification (Section 845.510(c))

ANNUAL INSPECTION BY A QUALIFIED PROFESSIONAL ENGINEER
35 IAC § 845.540

(b)(1) The CCR surface impoundment must be inspected on an annual basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR surface impoundment is consistent with recognized and generally accepted engineering standards. The inspection must, at a minimum, include:

A) A review of available information regarding the status and condition of the CCR surface impoundment, including files available in the operating record (e.g., CCR surface impoundment design and construction information required by Sections 845.220(a)(1) and 845.230(d)(2)(A), previous structural stability assessments required under Section 845.450, the results of inspections by a qualified person, and results of previous annual inspections);

B) A visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;

C) A visual inspection of any hydraulic structures underlying the base of the CCR surface impoundment or passing through the dike of the CCR surface impoundment for structural integrity and continued safe and reliable operation;

D) The annual hazard potential classification certification, if applicable (see Section 845.440);

E) The annual structural stability assessment certification, if applicable (see Section 845.450);

F) The annual safety factor assessment certification, if applicable (see Section 845.460); and

G) The inflow design flood control system plan certification (see Section 845.510(c)).

SITE INFORMATION

Site Name / Address / Date of Inspection	Kincaid Generation, LLC Sangamon County, Illinois 62540 11/17/2023
Operator Name / Address	Luminant Generation Company LLC 6555 Sierra Drive, Irving, TX 75039
CCR unit	Ash Pond

INSPECTION REPORT 35 IAC § 845.540

Date of Inspection 10/26/2021

(b)(1)(D) The annual hazard potential classification certification, if applicable (see Section 845.440).	Based on a review of the CCR unit's annual hazard potential classification, the unit is classified as a Class II CCR surface impoundment.
(b)(2)(A) Any changes in geometry of the structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no changes in geometry of the structure have taken place since the previous annual inspection.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection	See the attached.
b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;	See the attached.
b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Approximately 5600 acre-feet
(b)(2)(E) The approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Approximately 2400 acre-feet
(b)(2)(F) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit	Based on a review of the CCR unit's records and visual observation during the on-site inspection, there was no appearance of an actual or potential structural weakness of the CCR unit, nor an existing condition that is disrupting or would disrupt the operation and safety of the unit.

INSPECTION REPORT 35 IAC § 845.540

Date of Inspection 10/26/2021

(b)(2)(G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no other changes which may have affected the stability or operation of the CCR unit have taken place since the previous annual inspection.
(b)(1)(G) The inflow design flood control system plan certification (see Section 845.510(c))	Based on a review of the CCR unit's records, the CCR unit is designed, operated, and maintained to adequately manage the flow from the CCR impoundment and control the peak discharge from the inflow design flood.

35 IAC § 845.540 - Annual inspection by a qualified professional engineer.

I, James Knutelski, P.E., certify under penalty of law that the information submitted in this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Illinois. The information submitted, is to the best of my knowledge and belief, true, accurate and complete. Based on the annual inspection, the design, construction, operation, and maintenance of the CCR Unit is consistent with recognized and generally accepted good engineering standards. Based on a review of the records for the CCR unit and a visual inspection of the unit to document no material changes to the unit, the hazard potential classification was conducted in accordance with the requirements of Section 845.440, the structural stability assessment was conducted in accordance with the requirements of Section 845.450, the safety factor assessment was conducted in accordance with the requirements of Section 845.460, and the inflow design flood control system plan assessment was conducted in accordance with the requirements of Section 845.510.



James Knutelski, PE
Illinois PE No. 062-054206, Expires: 11/30/2025
Date: 01/07/2024

Site Name: Kincaid Generation, LLC

CCR Unit: Ash Pond

35 IAC § 845.540 (b)(2)(B)		
Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
KIN-001	Piezometer	587.2'
KIN-002	Piezometer	599.8'
KIN-003	Piezometer	600.9'
KIN-004	Piezometer	599.2'
KIN-005	Piezometer	592.7'
KIN-006	Piezometer	589.1'
KIN-007	Piezometer	595.1'
KIN-008	Piezometer	586.0'
KIN-009	Piezometer	594.1'
KIN-010	Piezometer	600.4'
KIN-011	Piezometer	600.1'
KIN-012	Piezometer	594.4'

35 IAC § 845.540 (b)(2)(C)						
Approximate Depth / Elevation						
Since previous inspection:	Elevation (ft)			Depth (ft)		
	Minimum	Present	Maximum	Minimum	Present	Maximum
Impounded Water		601.1'			3.1'	
CCR	598		625	18		45

Section 3

Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Prepared for
Kincaid Generation, LLC

Date
January 31, 2024

Project No.
1940103649-012

**2023 35 I.A.C. § 845 ANNUAL
GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
ASH POND
KINCAID POWER PLANT
KINCAID, ILLINOIS
IEPA ID NO. W0218140002-01**

**2023 35 I.A.C. § 845 ANNUAL GROUNDWATER
MONITORING AND CORRECTIVE ACTION REPORT
KINCAID POWER PLANT ASH POND**

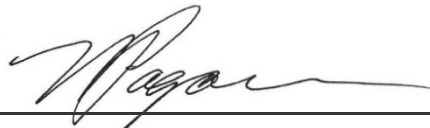
Project name **Kincaid Power Plant Ash Pond**
Project no. **1940103649-012**
Recipient **Kincaid Generation, LLC**
Document type **Annual Groundwater Monitoring and Corrective Action Report**
Version **FINAL**
Date **January 31, 2024**
Prepared by **Lauren D. Cook**
Checked by **Nicole M. Pagano**
Approved by **Nicole M. Pagano**
Description **Annual Report required by 35 I.A.C. § 845**

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TABLES (IN TEXT)

Table A 35 I.A.C. § 845 Monitoring Program Summary for 2023

TABLES (ATTACHED)

Table 1 Field Parameters and Analytical Results – Quarter 2, 2023
Field Parameters and Analytical Results – Quarter 3, 2023

Table 2 Comparison of Statistical Results to GWPS – Quarter 2, 2023
Comparison of Statistical Results to GWPS – Quarter 3, 2023

FIGURES (ATTACHED)

Figure 1 Monitoring Well Location Map

Figure 2 GWPS Exceedance Map Uppermost Aquifer, Quarters 2-3, 2023

Figure 3 GWPS Exceedance Map Upper Semi-Confining Unit, Quarters 2-3, 2023

Figure 4 Potentiometric Surface Map, April 12, 2023

Figure 5 Potentiometric Surface Map, May 12, 2023

Figure 6 Potentiometric Surface Map, June 12, 2023

Figure 7 Potentiometric Surface Map, July 5, 2023

Figure 8 Potentiometric Surface Map, August 5, 2023

Figure 9 Potentiometric Surface Map, September 5-6, 2023

Figure 10 Potentiometric Surface Map, October 23, 2023

Figure 11 Potentiometric Surface Map, November 27, 2023

Figure 12 Potentiometric Surface Map, December 14, 2023

ATTACHMENTS

Attachment A Groundwater Elevation Data

Attachment B Corrective Measures Assessment Extension Request and IEPA Approval Letter

Attachment C Comparison of Statistical Results to Background – Quarter 2, 2023
Comparison of Statistical Results to Background – Quarter 3, 2023

ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
AP	Ash Pond
ASD	Alternative Source Demonstration
CCA	compliance commitment agreement
CCR	coal combustion residuals
CMA	assessment of corrective measures
E001	Quarter 2, 2023 sampling event
E002	Quarter 3, 2023 sampling event
E003	Quarter 4, 2023 sampling event
GWPS	groundwater protection standard
ID	identification
IEPA	Illinois Environmental Protection Agency
KPP	Kincaid Power Plant
NID	National Inventory of Dams
No.	number
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SI	surface impoundment
SSI	statistically significant increase

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(e) (*Annual Groundwater Monitoring and Corrective Action Report*) for the Ash Pond (AP) located at Kincaid Power Plant (KPP) near Kincaid, Illinois. The AP is recognized by coal combustion residuals (CCR) unit identification (ID) number (No.) 141, Illinois Environmental Protection Agency (IEPA) ID No. W0218140002-01, and National Inventory of Dams (NID) No. IL50706.

As required by 35 I.A.C. § 845, an operating permit application for the AP was submitted by Kincaid Generation, LLC to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. Kincaid Generation, LLC entered into a compliance commitment agreement (CCA) with IEPA on December 28, 2022. As specified in the CCA, groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the AP commenced in the second quarter of 2023. All available groundwater monitoring data collected in 2023 is summarized in **Table 1** (field parameters and analytical results) and **Attachment A** (groundwater elevation data)¹. After the AP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan [Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021]), statistically derived values for constituent concentrations observed at compliance monitoring wells were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). The following GWPS exceedances were determined in 2023²:

- Boron in MW-12 and MW-28
- Sulfate in MW-20S, MW-28, MW-32
- Total Dissolved Solids (TDS) in MW-28

An Alternative Source Demonstration (ASD) was not completed for the GWPS exceedances listed above; therefore, these exceedances will be addressed in accordance with 35 I.A.C. § 845.660. The assessment of corrective measures (CMA) was initiated on December 14, 2023. A CMA extension request was submitted to IEPA on December 15, 2023 and approved on January 17, 2024 (**Attachment B**). Because the CMA is in progress, a remedy has not yet been selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023. In accordance with 35 I.A.C. § 845.610(b)(3)(B), statistically derived values for constituent concentrations observed at compliance monitoring wells were also evaluated quarterly for statistical exceedances over background levels (**Attachment C**).

¹ Analytical data received after December 31, 2023 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

² GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Kincaid Generation, LLC, to provide the information required by 35 I.A.C. § 845.610(e) for the AP located at KPP near Kincaid, Illinois. The owner or operator of a CCR surface impoundment (SI) must prepare and submit to IEPA by January 31st of each year an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year as part of the Annual Consolidated Report required by 35 I.A.C. § 845.550. The Annual Groundwater Monitoring and Corrective Action Report shall document the status of the groundwater monitoring and corrective action plan for the CCR SI (**Section 2**), summarize key actions completed, including the status of permit applications and Agency approvals (**Section 3**), describe any problems encountered and actions to resolve the problems (**Section 4**), and project key activities for the upcoming year (**Section 5**).

At a minimum, the annual report must contain the following information, to the extent available:

- A. A map, aerial image, or diagram showing the CCR SI and all background (or upgradient) and [downgradient] compliance monitoring wells, including the well identification numbers, that are part of the groundwater monitoring program for the CCR surface impoundment (SI) (**Figure 1**) and a visual delineation of any exceedances of the [groundwater protection standard] GWPS (**Figures 2 and 3**).
- B. 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 (**Section 3**, paragraph 1).
- C. A potentiometric surface map for each groundwater elevation sampling event required by 35 I.A.C. § 845.650(b)(2) (**Figures 4 through 12**).
- D. In addition to all the monitoring data obtained under 35 I.A.C. §§ 845.600-680, a summary including the number of groundwater samples that were collected for analysis for each background and [downgradient] compliance well, and the dates the samples were collected (**Section 3.1** and **Table A**).
- E. A narrative discussion of any statistically significant increases (SSIs) over background levels for the constituents listed in 35 I.A.C. § 845.600 (**Section 3.3** and **Attachment C**).
- F. Other information required to be included in the annual report as specified in 35 I.A.C. §§ 845.600-680.

A section at the beginning of the annual report that provides an overview of the current status of the groundwater monitoring program and corrective action plan for the CCR SI (see **Executive Summary**). At a minimum, the summary must:

- A. Specify whether groundwater monitoring data shows an SSI over background concentrations for one or more constituents listed in 35 I.A.C. § 845.600.
- B. Identify those constituents having an SSI over background concentrations and the names of the monitoring wells associated with the SSI(s).
- C. Specify whether there have been any exceedances of the GWPS for one or more constituents listed in 35 I.A.C. § 845.600.

- D. Identify those constituents with exceedances of the GWPS in 35 I.A.C. § 845.600 and the names of the monitoring wells associated with the exceedance.
- E. Provide the date when the assessment of corrective measures was initiated for the CCR SI.
- F. Provide the date when the assessment of corrective measures was completed for the CCR SI.
- G. Specify whether a remedy was selected under 35 I.A.C. § 845.670 during the current annual reporting period, and if so, the date of remedy selection.
- H. Specify whether remedial activities were initiated or are ongoing under 35 I.A.C. § 845.780 during the current annual reporting period.

This report provides the required information for the AP for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

An operating permit application for the AP was submitted by Kincaid Generation, LLC to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. Kincaid Generation, LLC entered into a CCA with IEPA on December 28, 2022. The CCA required that groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the AP commenced in the second quarter of 2023. After the AP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. As specified in the CCA, groundwater sampling requirements that apply to the CCR SI under other existing permit programs will become void upon issuance of an approved operating permit pursuant to 35 I.A.C § 845.

A construction permit application for the AP was also submitted by Kincaid Generation, LLC to IEPA on July 28, 2022 in accordance with the requirements specified in 35 I.A.C. § 845.220(a) and (d) and is pending approval.

As noted in the **Executive Summary** and **Section 3.2**, GWPS exceedances were determined for the AP in 2023. An ASD was not completed for these GWPS exceedances; they will be addressed in accordance with 35 I.A.C. § 845.660. The assessment of corrective measures (CMA) was initiated on December 14, 2023. A CMA extension request was submitted to IEPA on December 15, 2023 and approved on January 17, 2024 (**Attachment B**). Because the CMA is in progress, a remedy has not yet been selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023.

3. KEY ACTIONS COMPLETED IN 2023

The proposed 35 I.A.C. § 845 monitoring system is presented in **Figure 1**. No wells were installed or decommissioned in 2023.

Monitoring well inspections and redevelopment of the monitoring wells that were not sampled in 2022 were also completed prior to initiating groundwater monitoring in the second quarter of 2023.

Pressure transducers equipped with data loggers were deployed in monitoring system monitoring wells for measurement of monthly water level elevations as required by 35 I.A.C. § 845.650(b)(2). **Attachment A** summarizes the groundwater elevation data collected in 2023³. Potentiometric surfaces for April through December 2023 are included in **Figures 4 through 12**.

A summary of the samples collected in 2023 is included in **Section 3.1**. Narrative discussions of exceedances of GWPSs and background are included in **Section 3.2** and **Section 3.3**, respectively. Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021).

3.1 Sample and Analysis Summary

One groundwater sample was collected from each background and compliance well during each quarterly monitoring event beginning in the second quarter of 2023⁴. All samples were collected and analyzed in accordance with the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021). A summary of the samples collected from background and compliance monitoring wells in 2023 is included in **Table A** on the following page. **Table 1** is a summary of the field parameters and analytical results from the 2023 sampling events. Laboratory analytical reports and field data sheets are attached to the quarterly Groundwater Monitoring Data and Detected Exceedances Reports for Quarter 2 and Quarter 3 (Ramboll, 2023a; Ramboll, 2023b); therefore, these reports are not attached to this annual report to avoid reproduction of lengthy data transmittals that have been previously provided in hardcopy. Analytical data received after December 31, 2023 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

³ During the June 2023 sampling event, monitoring wells MW-7S and MW-8S were dry or went dry during purging; therefore, groundwater elevation data were not recorded.

During the September 2023 sampling event, monitoring wells MW-8S and MW-27 were dry; therefore, groundwater elevation data were not recorded.

⁴ During the June 2023 sampling event, field parameters were recorded for monitoring wells MW-27 and MW-31S; however, the wells were purged dry and there was not enough sample volume to be collected for laboratory analysis.

During the September 2023 sampling event, monitoring wells MW-8S and MW-27 were dry; therefore, groundwater samples were not collected. Monitoring wells MW-7S and PZ-4C went dry during purging; therefore, samples were not collected. Monitoring well MW-31S went dry during sample collection and the container for total inorganics analyses could not be filled.

Table A. 35 I.A.C. § 845 Monitoring Program Summary for 2023

Event ID	Sampling Dates ^{1, 2, 3}	Analytical Data Receipt Date ⁴	Exceedance Determination Date	ASD Completion Date	Required CMA Initiation Date ⁵
E001 ⁶	June 12 - 13, 2023	July 17, 2023	September 15, 2023	NA	December 14, 2023
E002 ⁷	September 5 – September 7, 2023	October 13, 2023	December 12, 2023	NA	NA
E003	November 27 - 29, 2023	January 3, 2024	TBD	TBD	NA

Notes:

ASD: Alternative Source Demonstration

CMA: Corrective Measures Assessment

NA: not applicable

TBD: to be determined in 2024

¹ All samples were analyzed for the parameters listed in 35 I.A.C. § 845.600, calcium, and turbidity.

² The following background wells were sampled for each event: MW-1 and MW-2

³ The following compliance wells were sampled for each event: MW-3, MW-5, MW-6, MW-7, MW-7S, MW-8, MW-8S, MW 11, MW-12, MW-20, MW 20S, MW-23, MW-27, MW-28, MW-30, MW-31, MW-31S, MW 32, and PZ-4C

⁴ Analytical data received after December 31, 2023 and GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

⁵ Exceedances for events E002 and E003 may be incorporated into the CMA initiated after event E001 on a case by case basis, as opposed to generating a new CMA.

⁶ During the June 2023 sampling event, monitoring wells MW-7S and MW-8S were dry or went dry during purging; therefore, groundwater elevation data were not recorded. In addition, monitoring wells MW-27 and MW-31S were purged dry and there was not enough sample volume to be collected for laboratory analysis.

⁷ During the September 2023 sampling event, monitoring wells MW-8S and MW-27 were dry; therefore, groundwater elevation data were not recorded and samples were not collected. Monitoring wells MW-7S and PZ-4C went dry during purging; therefore, samples were not collected. Monitoring well MW-31S went dry during sample collection and the container for total inorganics analyses could not be filled.

3.2 Exceedances of GWPS

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the GWPSs described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. The following statistical exceedances of the GWPSs were determined and are shown on **Figures 2 and 3**⁵:

- Boron in MW-12 and MW-28
- Sulfate in MW-20S, MW-28, MW-32
- TDS in MW-28

As allowed in 35 I.A.C. § 845.650(e), an ASD was evaluated for the determined exceedances of the GWPSs summarized above. An ASD has not been completed. The exceedances listed above will be addressed in accordance with 35 I.A.C. § 845.660. The CMA was initiated on December 14, 2023. A CMA extension request was submitted to IEPA on December 14, 2023 and approved on January 17, 2024 (**Attachment B**). Because the CMA is in progress, a remedy was not selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023.

3.3 Exceedances of Background

In accordance with 35 I.A.C. § 845.610(b)(3)(B), groundwater monitoring data were evaluated quarterly for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

⁵ GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

Groundwater monitoring commenced in the second quarter of 2023. Groundwater samples were collected and analyzed in accordance with the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021) and all data were accepted. After the AP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

Due to malfunctioning pressure transducers, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter. Pressure transducers were refurbished and were redeployed in January 2024.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the AP. After the AP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. Groundwater monitoring will include:
 - Monthly groundwater elevations
 - Quarterly groundwater sampling
- Complete evaluation of analytical data from the compliance wells to determine whether exceedances above GWPSs have occurred.
- If a GWPS exceedance is identified, potential alternative sources (*i.e.*, a source other than the CCR unit caused the GWPS exceedance or that the exceedance resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternative source is identified to be the cause of the GWPS exceedance, a written demonstration will be completed within 60 days of determination and included in the 2024 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternative source(s) is not identified to be the cause of the GWPS exceedance, the applicable requirements of 35 I.A.C. § 845.660 (*i.e.*, assessment of corrective measures) will be met.
- The CMA process will continue in accordance with 35 I.A.C. § 845.660 in 2024. A CMA extension request was submitted on December 15, 2023 and approved on January 17, 2024. The CMA will be submitted to IEPA on or before May 12, 2024.

6. REFERENCES

Illinois Administrative Code, Title 35, Subtitle G, Chapter I, Subchapter J, Part 845: Standards for The Disposal Of Coal Combustion Residuals In Surface Impoundments, effective April 21, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan*. Kincaid Power Plant, Ash Pond, Kincaid, Illinois. Kincaid Generation, LLC. October 25, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023a. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 2, Ash Pond, Kincaid Power Plant, Kincaid, Illinois. September 15, 2023.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023b. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 3, Ash Pond, Kincaid Power Plant, Kincaid, Illinois. December 12, 2023.

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-1	Background	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-1	Background	E001	06/12/2023	Arsenic, total	0.0087 U	mg/L
MW-1	Background	E001	06/12/2023	Barium, total	0.0431	mg/L
MW-1	Background	E001	06/12/2023	Beryllium, total	0.0002 U	mg/L
MW-1	Background	E001	06/12/2023	Boron, total	0.208	mg/L
MW-1	Background	E001	06/12/2023	Cadmium, total	0.0005 U	mg/L
MW-1	Background	E001	06/12/2023	Calcium, total	51.4	mg/L
MW-1	Background	E001	06/12/2023	Chloride, total	15.0	mg/L
MW-1	Background	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
MW-1	Background	E001	06/12/2023	Cobalt, total	0.0001 U	mg/L
MW-1	Background	E001	06/12/2023	Dissolved Oxygen	0.680	mg/L
MW-1	Background	E001	06/12/2023	Fluoride, total	0.200	mg/L
MW-1	Background	E001	06/12/2023	Lead, total	0.004 U	mg/L
MW-1	Background	E001	06/12/2023	Lithium, total	0.0015 U	mg/L
MW-1	Background	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-1	Background	E001	06/12/2023	Molybdenum, total	0.0037 U	mg/L
MW-1	Background	E001	06/12/2023	Oxidation Reduction Potential	113	mV
MW-1	Background	E001	06/12/2023	pH (field)	6.1	SU
MW-1	Background	E001	06/12/2023	Radium 226 + Radium 228, total	0.279 <0	pCi/L
MW-1	Background	E001	06/12/2023	Selenium, total	0.0006 U	mg/L
MW-1	Background	E001	06/12/2023	Specific Conductance @ 25C (field)	528	micromhos/cm
MW-1	Background	E001	06/12/2023	Sulfate, total	83.0	mg/L
MW-1	Background	E001	06/12/2023	Temperature	12.8	degrees C
MW-1	Background	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-1	Background	E001	06/12/2023	Total Dissolved Solids	306	mg/L
MW-1	Background	E001	06/12/2023	Turbidity, field	1 U	NTU
MW-2	Background	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-2	Background	E001	06/12/2023	Arsenic, total	0.0103	mg/L
MW-2	Background	E001	06/12/2023	Barium, total	0.315	mg/L
MW-2	Background	E001	06/12/2023	Beryllium, total	0.00130	mg/L
MW-2	Background	E001	06/12/2023	Boron, total	0.0474	mg/L
MW-2	Background	E001	06/12/2023	Cadmium, total	0.0009 J	mg/L
MW-2	Background	E001	06/12/2023	Calcium, total	225	mg/L
MW-2	Background	E001	06/12/2023	Chloride, total	16.0	mg/L
MW-2	Background	E001	06/12/2023	Chromium, total	0.0242	mg/L
MW-2	Background	E001	06/12/2023	Cobalt, total	0.0185	mg/L
MW-2	Background	E001	06/12/2023	Dissolved Oxygen	0.640	mg/L
MW-2	Background	E001	06/12/2023	Fluoride, total	0.480	mg/L
MW-2	Background	E001	06/12/2023	Lead, total	0.0272	mg/L
MW-2	Background	E001	06/12/2023	Lithium, total	0.0241	mg/L
MW-2	Background	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-2	Background	E001	06/12/2023	Molybdenum, total	0.0037 U	mg/L
MW-2	Background	E001	06/12/2023	Oxidation Reduction Potential	111	mV
MW-2	Background	E001	06/12/2023	pH (field)	7.0	SU
MW-2	Background	E001	06/12/2023	Radium 226 + Radium 228, total	9.33	pCi/L
MW-2	Background	E001	06/12/2023	Selenium, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-2	Background	E001	06/12/2023	Specific Conductance @ 25C (field)	763	micromhos/cm
MW-2	Background	E001	06/12/2023	Sulfate, total	149	mg/L
MW-2	Background	E001	06/12/2023	Temperature	12.6	degrees C
MW-2	Background	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-2	Background	E001	06/12/2023	Total Dissolved Solids	535	mg/L
MW-2	Background	E001	06/12/2023	Turbidity, field	220	NTU
MW-3	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-3	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-3	Compliance	E001	06/13/2023	Barium, total	0.0451	mg/L
MW-3	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-3	Compliance	E001	06/13/2023	Boron, total	1.51	mg/L
MW-3	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-3	Compliance	E001	06/13/2023	Calcium, total	95.8	mg/L
MW-3	Compliance	E001	06/13/2023	Chloride, total	30.0	mg/L
MW-3	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-3	Compliance	E001	06/13/2023	Cobalt, total	0.0005 U	mg/L
MW-3	Compliance	E001	06/13/2023	Dissolved Oxygen	0.530	mg/L
MW-3	Compliance	E001	06/13/2023	Fluoride, total	0.240	mg/L
MW-3	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-3	Compliance	E001	06/13/2023	Lithium, total	0.0021 J	mg/L
MW-3	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-3	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-3	Compliance	E001	06/13/2023	Oxidation Reduction Potential	103	mV
MW-3	Compliance	E001	06/13/2023	pH (field)	6.5	SU
MW-3	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.75 J+	pCi/L
MW-3	Compliance	E001	06/13/2023	Selenium, total	0.0008 J	mg/L
MW-3	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	978	micromhos/cm
MW-3	Compliance	E001	06/13/2023	Sulfate, total	130	mg/L
MW-3	Compliance	E001	06/13/2023	Temperature	13.0	degrees C
MW-3	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-3	Compliance	E001	06/13/2023	Total Dissolved Solids	568	mg/L
MW-3	Compliance	E001	06/13/2023	Turbidity, field	3.80	NTU
MW-5	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-5	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-5	Compliance	E001	06/13/2023	Barium, total	0.160	mg/L
MW-5	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-5	Compliance	E001	06/13/2023	Boron, total	0.532	mg/L
MW-5	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-5	Compliance	E001	06/13/2023	Calcium, total	160	mg/L
MW-5	Compliance	E001	06/13/2023	Chloride, total	45.0	mg/L
MW-5	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-5	Compliance	E001	06/13/2023	Cobalt, total	0.0007 J	mg/L
MW-5	Compliance	E001	06/13/2023	Dissolved Oxygen	1.47	mg/L
MW-5	Compliance	E001	06/13/2023	Fluoride, total	0.180	mg/L
MW-5	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-5	Compliance	E001	06/13/2023	Lithium, total	0.00300 J	mg/L

TABLE 1.
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845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-5	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-5	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-5	Compliance	E001	06/13/2023	Oxidation Reduction Potential	97.0	mV
MW-5	Compliance	E001	06/13/2023	pH (field)	6.7	SU
MW-5	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.29 J+	pCi/L
MW-5	Compliance	E001	06/13/2023	Selenium, total	0.0006 J	mg/L
MW-5	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,360	micromhos/cm
MW-5	Compliance	E001	06/13/2023	Sulfate, total	10.0 J	mg/L
MW-5	Compliance	E001	06/13/2023	Temperature	14.5	degrees C
MW-5	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-5	Compliance	E001	06/13/2023	Total Dissolved Solids	756	mg/L
MW-5	Compliance	E001	06/13/2023	Turbidity, field	1 U	NTU
MW-6	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-6	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-6	Compliance	E001	06/13/2023	Barium, total	0.0431	mg/L
MW-6	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-6	Compliance	E001	06/13/2023	Boron, total	0.996	mg/L
MW-6	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-6	Compliance	E001	06/13/2023	Calcium, total	93.2	mg/L
MW-6	Compliance	E001	06/13/2023	Chloride, total	2 J	mg/L
MW-6	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-6	Compliance	E001	06/13/2023	Cobalt, total	0.0005 U	mg/L
MW-6	Compliance	E001	06/13/2023	Dissolved Oxygen	5.13	mg/L
MW-6	Compliance	E001	06/13/2023	Fluoride, total	0.200	mg/L
MW-6	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-6	Compliance	E001	06/13/2023	Lithium, total	0.0015 U	mg/L
MW-6	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-6	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-6	Compliance	E001	06/13/2023	Oxidation Reduction Potential	96.0	mV
MW-6	Compliance	E001	06/13/2023	pH (field)	6.6	SU
MW-6	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	1.49 J+	pCi/L
MW-6	Compliance	E001	06/13/2023	Selenium, total	0.0006 J	mg/L
MW-6	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	809	micromhos/cm
MW-6	Compliance	E001	06/13/2023	Sulfate, total	126	mg/L
MW-6	Compliance	E001	06/13/2023	Temperature	13.8	degrees C
MW-6	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-6	Compliance	E001	06/13/2023	Total Dissolved Solids	462	mg/L
MW-6	Compliance	E001	06/13/2023	Turbidity, field	2.50	NTU
MW-7	Compliance	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-7	Compliance	E001	06/12/2023	Arsenic, total	0.0087 U	mg/L
MW-7	Compliance	E001	06/12/2023	Barium, total	0.0347	mg/L
MW-7	Compliance	E001	06/12/2023	Beryllium, total	0.0002 U	mg/L
MW-7	Compliance	E001	06/12/2023	Boron, total	0.247	mg/L
MW-7	Compliance	E001	06/12/2023	Cadmium, total	0.0005 U	mg/L
MW-7	Compliance	E001	06/12/2023	Calcium, total	109	mg/L
MW-7	Compliance	E001	06/12/2023	Chloride, total	1 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-7	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
MW-7	Compliance	E001	06/12/2023	Cobalt, total	0.0009 J	mg/L
MW-7	Compliance	E001	06/12/2023	Dissolved Oxygen	1.02	mg/L
MW-7	Compliance	E001	06/12/2023	Fluoride, total	0.270	mg/L
MW-7	Compliance	E001	06/12/2023	Lead, total	0.004 U	mg/L
MW-7	Compliance	E001	06/12/2023	Lithium, total	0.0023 J	mg/L
MW-7	Compliance	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-7	Compliance	E001	06/12/2023	Molybdenum, total	0.0045 J	mg/L
MW-7	Compliance	E001	06/12/2023	Oxidation Reduction Potential	36.0	mV
MW-7	Compliance	E001	06/12/2023	pH (field)	6.9	SU
MW-7	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.296 <0	pCi/L
MW-7	Compliance	E001	06/12/2023	Selenium, total	0.0006 U	mg/L
MW-7	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	940	micromhos/cm
MW-7	Compliance	E001	06/12/2023	Sulfate, total	185	mg/L
MW-7	Compliance	E001	06/12/2023	Temperature	13.4	degrees C
MW-7	Compliance	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-7	Compliance	E001	06/12/2023	Total Dissolved Solids	604	mg/L
MW-7	Compliance	E001	06/12/2023	Turbidity, field	1 U	NTU
MW-8	Compliance	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-8	Compliance	E001	06/12/2023	Arsenic, total	0.0087 U	mg/L
MW-8	Compliance	E001	06/12/2023	Barium, total	0.0264	mg/L
MW-8	Compliance	E001	06/12/2023	Beryllium, total	0.0002 U	mg/L
MW-8	Compliance	E001	06/12/2023	Boron, total	0.889	mg/L
MW-8	Compliance	E001	06/12/2023	Cadmium, total	0.0005 U	mg/L
MW-8	Compliance	E001	06/12/2023	Calcium, total	138	mg/L
MW-8	Compliance	E001	06/12/2023	Chloride, total	21.0	mg/L
MW-8	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
MW-8	Compliance	E001	06/12/2023	Cobalt, total	0.00120 J	mg/L
MW-8	Compliance	E001	06/12/2023	Dissolved Oxygen	0.830	mg/L
MW-8	Compliance	E001	06/12/2023	Fluoride, total	0.220	mg/L
MW-8	Compliance	E001	06/12/2023	Lead, total	0.004 U	mg/L
MW-8	Compliance	E001	06/12/2023	Lithium, total	0.0017 J	mg/L
MW-8	Compliance	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-8	Compliance	E001	06/12/2023	Molybdenum, total	0.0037 U	mg/L
MW-8	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-22.0	mV
MW-8	Compliance	E001	06/12/2023	pH (field)	6.4	SU
MW-8	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.990 J+	pCi/L
MW-8	Compliance	E001	06/12/2023	Selenium, total	0.0006 U	mg/L
MW-8	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,290	micromhos/cm
MW-8	Compliance	E001	06/12/2023	Sulfate, total	232	mg/L
MW-8	Compliance	E001	06/12/2023	Temperature	13.4	degrees C
MW-8	Compliance	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-8	Compliance	E001	06/12/2023	Total Dissolved Solids	812	mg/L
MW-8	Compliance	E001	06/12/2023	Turbidity, field	1 U	NTU
MW-11	Compliance	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-11	Compliance	E001	06/12/2023	Arsenic, total	0.0087 U	mg/L

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 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-11	Compliance	E001	06/12/2023	Barium, total	0.126	mg/L
MW-11	Compliance	E001	06/12/2023	Beryllium, total	0.0002 U	mg/L
MW-11	Compliance	E001	06/12/2023	Boron, total	1.41	mg/L
MW-11	Compliance	E001	06/12/2023	Cadmium, total	0.0005 U	mg/L
MW-11	Compliance	E001	06/12/2023	Calcium, total	108	mg/L
MW-11	Compliance	E001	06/12/2023	Chloride, total	33.0	mg/L
MW-11	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
MW-11	Compliance	E001	06/12/2023	Cobalt, total	0.0005 J	mg/L
MW-11	Compliance	E001	06/12/2023	Dissolved Oxygen	0.540	mg/L
MW-11	Compliance	E001	06/12/2023	Fluoride, total	0.480	mg/L
MW-11	Compliance	E001	06/12/2023	Lead, total	0.004 U	mg/L
MW-11	Compliance	E001	06/12/2023	Lithium, total	0.0022 J	mg/L
MW-11	Compliance	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-11	Compliance	E001	06/12/2023	Molybdenum, total	0.0037 U	mg/L
MW-11	Compliance	E001	06/12/2023	Oxidation Reduction Potential	125	mV
MW-11	Compliance	E001	06/12/2023	pH (field)	6.7	SU
MW-11	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	1.54 J+	pCi/L
MW-11	Compliance	E001	06/12/2023	Selenium, total	0.00110	mg/L
MW-11	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,030	micromhos/cm
MW-11	Compliance	E001	06/12/2023	Sulfate, total	125	mg/L
MW-11	Compliance	E001	06/12/2023	Temperature	14.6	degrees C
MW-11	Compliance	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-11	Compliance	E001	06/12/2023	Total Dissolved Solids	646	mg/L
MW-11	Compliance	E001	06/12/2023	Turbidity, field	2.30	NTU
MW-12	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-12	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-12	Compliance	E001	06/13/2023	Barium, total	0.0944	mg/L
MW-12	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-12	Compliance	E001	06/13/2023	Boron, total	3.39	mg/L
MW-12	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-12	Compliance	E001	06/13/2023	Calcium, total	210	mg/L
MW-12	Compliance	E001	06/13/2023	Chloride, total	31.0	mg/L
MW-12	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-12	Compliance	E001	06/13/2023	Cobalt, total	0.0005 U	mg/L
MW-12	Compliance	E001	06/13/2023	Dissolved Oxygen	0.830	mg/L
MW-12	Compliance	E001	06/13/2023	Fluoride, total	0.200	mg/L
MW-12	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-12	Compliance	E001	06/13/2023	Lithium, total	0.0102	mg/L
MW-12	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-12	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-12	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-35.0	mV
MW-12	Compliance	E001	06/13/2023	pH (field)	6.7	SU
MW-12	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	1.52 J+	pCi/L
MW-12	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-12	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,630	micromhos/cm
MW-12	Compliance	E001	06/13/2023	Sulfate, total	378	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-12	Compliance	E001	06/13/2023	Temperature	14.4	degrees C
MW-12	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-12	Compliance	E001	06/13/2023	Total Dissolved Solids	1,080	mg/L
MW-12	Compliance	E001	06/13/2023	Turbidity, field	8.40	NTU
MW-20	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-20	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-20	Compliance	E001	06/13/2023	Barium, total	0.121	mg/L
MW-20	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-20	Compliance	E001	06/13/2023	Boron, total	0.586	mg/L
MW-20	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-20	Compliance	E001	06/13/2023	Calcium, total	133	mg/L
MW-20	Compliance	E001	06/13/2023	Chloride, total	22.0	mg/L
MW-20	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-20	Compliance	E001	06/13/2023	Cobalt, total	0.00110	mg/L
MW-20	Compliance	E001	06/13/2023	Dissolved Oxygen	0.890	mg/L
MW-20	Compliance	E001	06/13/2023	Fluoride, total	0.360	mg/L
MW-20	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-20	Compliance	E001	06/13/2023	Lithium, total	0.00500	mg/L
MW-20	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-20	Compliance	E001	06/13/2023	Molybdenum, total	0.0041 J	mg/L
MW-20	Compliance	E001	06/13/2023	Oxidation Reduction Potential	114	mV
MW-20	Compliance	E001	06/13/2023	pH (field)	7.0	SU
MW-20	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.742 J+	pCi/L
MW-20	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-20	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,120	micromhos/cm
MW-20	Compliance	E001	06/13/2023	Sulfate, total	180	mg/L
MW-20	Compliance	E001	06/13/2023	Temperature	13.8	degrees C
MW-20	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-20	Compliance	E001	06/13/2023	Total Dissolved Solids	666	mg/L
MW-20	Compliance	E001	06/13/2023	Turbidity, field	4.50	NTU
MW-20S	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Barium, total	0.0370	mg/L
MW-20S	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Boron, total	2.19	mg/L
MW-20S	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Calcium, total	204	mg/L
MW-20S	Compliance	E001	06/13/2023	Chloride, total	14.0	mg/L
MW-20S	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Cobalt, total	0.0005 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Dissolved Oxygen	1.25	mg/L
MW-20S	Compliance	E001	06/13/2023	Fluoride, total	0.190	mg/L
MW-20S	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Lithium, total	0.0015 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-20S	Compliance	E001	06/13/2023	Oxidation Reduction Potential	105	mV
MW-20S	Compliance	E001	06/13/2023	pH (field)	6.8	SU
MW-20S	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0	pCi/L
MW-20S	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,710	micromhos/cm
MW-20S	Compliance	E001	06/13/2023	Sulfate, total	519	mg/L
MW-20S	Compliance	E001	06/13/2023	Temperature	14.8	degrees C
MW-20S	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-20S	Compliance	E001	06/13/2023	Total Dissolved Solids	1,250	mg/L
MW-20S	Compliance	E001	06/13/2023	Turbidity, field	1 U	NTU
MW-23	Compliance	E001	06/12/2023	Antimony, total	0.0004 U	mg/L
MW-23	Compliance	E001	06/12/2023	Arsenic, total	0.0087 U	mg/L
MW-23	Compliance	E001	06/12/2023	Barium, total	0.102	mg/L
MW-23	Compliance	E001	06/12/2023	Beryllium, total	0.0002 U	mg/L
MW-23	Compliance	E001	06/12/2023	Boron, total	1.99	mg/L
MW-23	Compliance	E001	06/12/2023	Cadmium, total	0.0005 U	mg/L
MW-23	Compliance	E001	06/12/2023	Calcium, total	103	mg/L
MW-23	Compliance	E001	06/12/2023	Chloride, total	28.0	mg/L
MW-23	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
MW-23	Compliance	E001	06/12/2023	Cobalt, total	0.0008 J	mg/L
MW-23	Compliance	E001	06/12/2023	Dissolved Oxygen	1.07	mg/L
MW-23	Compliance	E001	06/12/2023	Fluoride, total	0.360	mg/L
MW-23	Compliance	E001	06/12/2023	Lead, total	0.004 U	mg/L
MW-23	Compliance	E001	06/12/2023	Lithium, total	0.0015 U	mg/L
MW-23	Compliance	E001	06/12/2023	Mercury, total	0.00006 U	mg/L
MW-23	Compliance	E001	06/12/2023	Molybdenum, total	0.0037 U	mg/L
MW-23	Compliance	E001	06/12/2023	Oxidation Reduction Potential	144	mV
MW-23	Compliance	E001	06/12/2023	pH (field)	6.4	SU
MW-23	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.923 J+	pCi/L
MW-23	Compliance	E001	06/12/2023	Selenium, total	0.0006 U	mg/L
MW-23	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,100	micromhos/cm
MW-23	Compliance	E001	06/12/2023	Sulfate, total	47.0	mg/L
MW-23	Compliance	E001	06/12/2023	Temperature	14.0	degrees C
MW-23	Compliance	E001	06/12/2023	Thallium, total	0.001 U	mg/L
MW-23	Compliance	E001	06/12/2023	Total Dissolved Solids	634	mg/L
MW-23	Compliance	E001	06/12/2023	Turbidity, field	1 U	NTU
MW-27	Compliance	E001	06/12/2023	Dissolved Oxygen	1.17	mg/L
MW-27	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-48.0	mV
MW-27	Compliance	E001	06/12/2023	pH (field)	6.7	SU
MW-27	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,750	micromhos/cm
MW-27	Compliance	E001	06/12/2023	Temperature	13.3	degrees C
MW-27	Compliance	E001	06/12/2023	Turbidity, field	13.0	NTU
MW-28	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-28	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-28	Compliance	E001	06/13/2023	Barium, total	0.0271	mg/L
MW-28	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-28	Compliance	E001	06/13/2023	Boron, total	9.00	mg/L
MW-28	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-28	Compliance	E001	06/13/2023	Calcium, total	286	mg/L
MW-28	Compliance	E001	06/13/2023	Chloride, total	15.0	mg/L
MW-28	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-28	Compliance	E001	06/13/2023	Cobalt, total	0.0007 J	mg/L
MW-28	Compliance	E001	06/13/2023	Dissolved Oxygen	1.01	mg/L
MW-28	Compliance	E001	06/13/2023	Fluoride, total	0.130	mg/L
MW-28	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-28	Compliance	E001	06/13/2023	Lithium, total	0.00610	mg/L
MW-28	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-28	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-28	Compliance	E001	06/13/2023	Oxidation Reduction Potential	108	mV
MW-28	Compliance	E001	06/13/2023	pH (field)	6.8	SU
MW-28	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.494 <0	pCi/L
MW-28	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-28	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	2,420	micromhos/cm
MW-28	Compliance	E001	06/13/2023	Sulfate, total	951	mg/L
MW-28	Compliance	E001	06/13/2023	Temperature	14.1	degrees C
MW-28	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-28	Compliance	E001	06/13/2023	Total Dissolved Solids	1,770	mg/L
MW-28	Compliance	E001	06/13/2023	Turbidity, field	1 U	NTU
MW-30	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-30	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-30	Compliance	E001	06/13/2023	Barium, total	0.170	mg/L
MW-30	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-30	Compliance	E001	06/13/2023	Boron, total	1.15	mg/L
MW-30	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-30	Compliance	E001	06/13/2023	Calcium, total	121	mg/L
MW-30	Compliance	E001	06/13/2023	Chloride, total	44.0	mg/L
MW-30	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-30	Compliance	E001	06/13/2023	Cobalt, total	0.00270	mg/L
MW-30	Compliance	E001	06/13/2023	Dissolved Oxygen	0.830	mg/L
MW-30	Compliance	E001	06/13/2023	Fluoride, total	0.300	mg/L
MW-30	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-30	Compliance	E001	06/13/2023	Lithium, total	0.0015 U	mg/L
MW-30	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-30	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-30	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-17.0	mV
MW-30	Compliance	E001	06/13/2023	pH (field)	6.7	SU
MW-30	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.453 <0	pCi/L
MW-30	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-30	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,190	micromhos/cm
MW-30	Compliance	E001	06/13/2023	Sulfate, total	7 J	mg/L
MW-30	Compliance	E001	06/13/2023	Temperature	14.7	degrees C
MW-30	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-30	Compliance	E001	06/13/2023	Total Dissolved Solids	612	mg/L
MW-30	Compliance	E001	06/13/2023	Turbidity, field	7.30	NTU
MW-31	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-31	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-31	Compliance	E001	06/13/2023	Barium, total	0.230	mg/L
MW-31	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-31	Compliance	E001	06/13/2023	Boron, total	0.292	mg/L
MW-31	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-31	Compliance	E001	06/13/2023	Calcium, total	142	mg/L
MW-31	Compliance	E001	06/13/2023	Chloride, total	50.0	mg/L
MW-31	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-31	Compliance	E001	06/13/2023	Cobalt, total	0.00100 J	mg/L
MW-31	Compliance	E001	06/13/2023	Dissolved Oxygen	0.900	mg/L
MW-31	Compliance	E001	06/13/2023	Fluoride, total	0.160	mg/L
MW-31	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-31	Compliance	E001	06/13/2023	Lithium, total	0.00520	mg/L
MW-31	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-31	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-31	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-50.0	mV
MW-31	Compliance	E001	06/13/2023	pH (field)	6.8	SU
MW-31	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.568 <0	pCi/L
MW-31	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-31	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,200	micromhos/cm
MW-31	Compliance	E001	06/13/2023	Sulfate, total	6 U	mg/L
MW-31	Compliance	E001	06/13/2023	Temperature	14.9	degrees C
MW-31	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-31	Compliance	E001	06/13/2023	Total Dissolved Solids	600	mg/L
MW-31	Compliance	E001	06/13/2023	Turbidity, field	1 U	NTU
MW-31S	Compliance	E001	06/13/2023	Dissolved Oxygen	1.00	mg/L
MW-31S	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-78.0	mV
MW-31S	Compliance	E001	06/13/2023	pH (field)	6.7	SU
MW-31S	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,440	micromhos/cm
MW-31S	Compliance	E001	06/13/2023	Temperature	16.4	degrees C
MW-31S	Compliance	E001	06/13/2023	Turbidity, field	16.0	NTU
MW-32	Compliance	E001	06/13/2023	Antimony, total	0.0004 U	mg/L
MW-32	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
MW-32	Compliance	E001	06/13/2023	Barium, total	0.0570	mg/L
MW-32	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
MW-32	Compliance	E001	06/13/2023	Boron, total	1.67	mg/L
MW-32	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
MW-32	Compliance	E001	06/13/2023	Calcium, total	180	mg/L
MW-32	Compliance	E001	06/13/2023	Chloride, total	11.0	mg/L
MW-32	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
MW-32	Compliance	E001	06/13/2023	Cobalt, total	0.0009 J	mg/L
MW-32	Compliance	E001	06/13/2023	Dissolved Oxygen	1.05	mg/L
MW-32	Compliance	E001	06/13/2023	Fluoride, total	0.170	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-32	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
MW-32	Compliance	E001	06/13/2023	Lithium, total	0.0015 J	mg/L
MW-32	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
MW-32	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
MW-32	Compliance	E001	06/13/2023	Oxidation Reduction Potential	104	mV
MW-32	Compliance	E001	06/13/2023	pH (field)	6.6	SU
MW-32	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.243	pCi/L
MW-32	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
MW-32	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,610	micromhos/cm
MW-32	Compliance	E001	06/13/2023	Sulfate, total	414	mg/L
MW-32	Compliance	E001	06/13/2023	Temperature	15.6	degrees C
MW-32	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
MW-32	Compliance	E001	06/13/2023	Total Dissolved Solids	1,050	mg/L
MW-32	Compliance	E001	06/13/2023	Turbidity, field	1 U	NTU
PZ-4C	Compliance	E001	06/13/2023	Antimony, total	0.0005 J	mg/L
PZ-4C	Compliance	E001	06/13/2023	Arsenic, total	0.0087 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Barium, total	0.274	mg/L
PZ-4C	Compliance	E001	06/13/2023	Beryllium, total	0.0002 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Boron, total	1.59	mg/L
PZ-4C	Compliance	E001	06/13/2023	Cadmium, total	0.0005 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Calcium, total	114	mg/L
PZ-4C	Compliance	E001	06/13/2023	Chloride, total	34.0	mg/L
PZ-4C	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Cobalt, total	0.0005 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Dissolved Oxygen	0.720	mg/L
PZ-4C	Compliance	E001	06/13/2023	Fluoride, total	0.380	mg/L
PZ-4C	Compliance	E001	06/13/2023	Lead, total	0.004 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Lithium, total	0.00640	mg/L
PZ-4C	Compliance	E001	06/13/2023	Mercury, total	0.00006 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Molybdenum, total	0.0037 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-118	mV
PZ-4C	Compliance	E001	06/13/2023	pH (field)	6.8	SU
PZ-4C	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	0.426 <0	pCi/L
PZ-4C	Compliance	E001	06/13/2023	Selenium, total	0.0006 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	971	micromhos/cm
PZ-4C	Compliance	E001	06/13/2023	Sulfate, total	67.0	mg/L
PZ-4C	Compliance	E001	06/13/2023	Temperature	14.4	degrees C
PZ-4C	Compliance	E001	06/13/2023	Thallium, total	0.001 U	mg/L
PZ-4C	Compliance	E001	06/13/2023	Total Dissolved Solids	546	mg/L
PZ-4C	Compliance	E001	06/13/2023	Turbidity, field	3.70	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-1	Background	E002	09/05/2023	Antimony, total	0.0004 U	mg/L
MW-1	Background	E002	09/05/2023	Arsenic, total	0.0004 U	mg/L
MW-1	Background	E002	09/05/2023	Barium, total	0.0417	mg/L
MW-1	Background	E002	09/05/2023	Beryllium, total	0.0002 U	mg/L
MW-1	Background	E002	09/05/2023	Boron, total	0.270	mg/L
MW-1	Background	E002	09/05/2023	Cadmium, total	0.0002 U	mg/L
MW-1	Background	E002	09/05/2023	Calcium, total	54.3	mg/L
MW-1	Background	E002	09/05/2023	Chloride, total	13.0	mg/L
MW-1	Background	E002	09/05/2023	Chromium, total	0.001 U	mg/L
MW-1	Background	E002	09/05/2023	Cobalt, total	0.0001 U	mg/L
MW-1	Background	E002	09/05/2023	Dissolved Oxygen	0.570	mg/L
MW-1	Background	E002	09/05/2023	Fluoride, total	0.260	mg/L
MW-1	Background	E002	09/05/2023	Lead, total	0.0006 U	mg/L
MW-1	Background	E002	09/05/2023	Lithium, total	0.0017 J	mg/L
MW-1	Background	E002	09/05/2023	Mercury, total	0.00006 U	mg/L
MW-1	Background	E002	09/05/2023	Molybdenum, total	0.0006 U	mg/L
MW-1	Background	E002	09/05/2023	Oxidation Reduction Potential	42.0	mV
MW-1	Background	E002	09/05/2023	pH (field)	6.4	SU
MW-1	Background	E002	09/05/2023	Radium 226 + Radium 228, total	0.603	pCi/L
MW-1	Background	E002	09/05/2023	Selenium, total	0.0006 U	mg/L
MW-1	Background	E002	09/05/2023	Specific Conductance @ 25C (field)	876	micromhos/cm
MW-1	Background	E002	09/05/2023	Sulfate, total	80.0	mg/L
MW-1	Background	E002	09/05/2023	Temperature	16.6	degrees C
MW-1	Background	E002	09/05/2023	Thallium, total	0.001 U	mg/L
MW-1	Background	E002	09/05/2023	Total Dissolved Solids	352	mg/L
MW-1	Background	E002	09/05/2023	Turbidity, field	1.40	NTU
MW-2	Background	E002	09/05/2023	Antimony, total	0.0004 U	mg/L
MW-2	Background	E002	09/05/2023	Arsenic, total	0.00310	mg/L
MW-2	Background	E002	09/05/2023	Barium, total	0.138	mg/L
MW-2	Background	E002	09/05/2023	Beryllium, total	0.0004 J	mg/L
MW-2	Background	E002	09/05/2023	Boron, total	0.0630	mg/L
MW-2	Background	E002	09/05/2023	Cadmium, total	0.0002 U	mg/L
MW-2	Background	E002	09/05/2023	Calcium, total	104	mg/L
MW-2	Background	E002	09/05/2023	Chloride, total	14.0	mg/L
MW-2	Background	E002	09/05/2023	Chromium, total	0.00730	mg/L
MW-2	Background	E002	09/05/2023	Cobalt, total	0.00290	mg/L
MW-2	Background	E002	09/05/2023	Dissolved Oxygen	0.570	mg/L
MW-2	Background	E002	09/05/2023	Fluoride, total	0.510	mg/L
MW-2	Background	E002	09/05/2023	Lead, total	0.00370	mg/L
MW-2	Background	E002	09/05/2023	Lithium, total	0.00960	mg/L
MW-2	Background	E002	09/05/2023	Mercury, total	0.00006 U	mg/L
MW-2	Background	E002	09/05/2023	Molybdenum, total	0.00460	mg/L
MW-2	Background	E002	09/05/2023	Oxidation Reduction Potential	-48.0	mV
MW-2	Background	E002	09/05/2023	pH (field)	6.8	SU
MW-2	Background	E002	09/05/2023	Radium 226 + Radium 228, total	1.94	pCi/L
MW-2	Background	E002	09/05/2023	Selenium, total	0.0006 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-2	Background	E002	09/05/2023	Specific Conductance @ 25C (field)	1,260	micromhos/cm
MW-2	Background	E002	09/05/2023	Sulfate, total	130	mg/L
MW-2	Background	E002	09/05/2023	Temperature	16.8	degrees C
MW-2	Background	E002	09/05/2023	Thallium, total	0.001 U	mg/L
MW-2	Background	E002	09/05/2023	Total Dissolved Solids	495	mg/L
MW-2	Background	E002	09/05/2023	Turbidity, field	51.0	NTU
MW-3	Compliance	E002	09/05/2023	Antimony, total	0.0004 U	mg/L
MW-3	Compliance	E002	09/05/2023	Arsenic, total	0.0004 J	mg/L
MW-3	Compliance	E002	09/05/2023	Barium, total	0.0431	mg/L
MW-3	Compliance	E002	09/05/2023	Beryllium, total	0.0002 U	mg/L
MW-3	Compliance	E002	09/05/2023	Boron, total	1.71	mg/L
MW-3	Compliance	E002	09/05/2023	Cadmium, total	0.0002 U	mg/L
MW-3	Compliance	E002	09/05/2023	Calcium, total	91.2	mg/L
MW-3	Compliance	E002	09/05/2023	Chloride, total	28.0	mg/L
MW-3	Compliance	E002	09/05/2023	Chromium, total	0.001 U	mg/L
MW-3	Compliance	E002	09/05/2023	Cobalt, total	0.001 UJ	mg/L
MW-3	Compliance	E002	09/05/2023	Dissolved Oxygen	0.710	mg/L
MW-3	Compliance	E002	09/05/2023	Fluoride, total	0.290	mg/L
MW-3	Compliance	E002	09/05/2023	Lead, total	0.0006 U	mg/L
MW-3	Compliance	E002	09/05/2023	Lithium, total	0.0018 J	mg/L
MW-3	Compliance	E002	09/05/2023	Mercury, total	0.00006 U	mg/L
MW-3	Compliance	E002	09/05/2023	Molybdenum, total	0.002 UJ	mg/L
MW-3	Compliance	E002	09/05/2023	Oxidation Reduction Potential	35.0	mV
MW-3	Compliance	E002	09/05/2023	pH (field)	6.8	SU
MW-3	Compliance	E002	09/05/2023	Radium 226 + Radium 228, total	0.762	pCi/L
MW-3	Compliance	E002	09/05/2023	Selenium, total	0.0006 U	mg/L
MW-3	Compliance	E002	09/05/2023	Specific Conductance @ 25C (field)	1,580	micromhos/cm
MW-3	Compliance	E002	09/05/2023	Sulfate, total	117	mg/L
MW-3	Compliance	E002	09/05/2023	Temperature	17.3	degrees C
MW-3	Compliance	E002	09/05/2023	Thallium, total	0.001 U	mg/L
MW-3	Compliance	E002	09/05/2023	Total Dissolved Solids	594	mg/L
MW-3	Compliance	E002	09/05/2023	Turbidity, field	5.60	NTU
MW-5	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-5	Compliance	E002	09/06/2023	Arsenic, total	0.0006 J	mg/L
MW-5	Compliance	E002	09/06/2023	Barium, total	0.151	mg/L
MW-5	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-5	Compliance	E002	09/06/2023	Boron, total	0.578	mg/L
MW-5	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-5	Compliance	E002	09/06/2023	Calcium, total	147	mg/L
MW-5	Compliance	E002	09/06/2023	Chloride, total	44.0	mg/L
MW-5	Compliance	E002	09/06/2023	Chromium, total	0.0007 U	mg/L
MW-5	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-5	Compliance	E002	09/06/2023	Dissolved Oxygen	0.680	mg/L
MW-5	Compliance	E002	09/06/2023	Fluoride, total	0.200	mg/L
MW-5	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-5	Compliance	E002	09/06/2023	Lithium, total	0.0027 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-5	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-5	Compliance	E002	09/06/2023	Molybdenum, total	0.002 UJ	mg/L
MW-5	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-19.0	mV
MW-5	Compliance	E002	09/06/2023	pH (field)	6.7	SU
MW-5	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.624	pCi/L
MW-5	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-5	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	2,120	micromhos/cm
MW-5	Compliance	E002	09/06/2023	Sulfate, total	10.0	mg/L
MW-5	Compliance	E002	09/06/2023	Temperature	14.9	degrees C
MW-5	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-5	Compliance	E002	09/06/2023	Total Dissolved Solids	732	mg/L
MW-5	Compliance	E002	09/06/2023	Turbidity, field	4.40	NTU
MW-6	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-6	Compliance	E002	09/06/2023	Arsenic, total	0.0004 U	mg/L
MW-6	Compliance	E002	09/06/2023	Barium, total	0.0476	mg/L
MW-6	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-6	Compliance	E002	09/06/2023	Boron, total	1.47	mg/L
MW-6	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-6	Compliance	E002	09/06/2023	Calcium, total	104	mg/L
MW-6	Compliance	E002	09/06/2023	Chloride, total	5.00	mg/L
MW-6	Compliance	E002	09/06/2023	Chromium, total	0.00190	mg/L
MW-6	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-6	Compliance	E002	09/06/2023	Dissolved Oxygen	1.75	mg/L
MW-6	Compliance	E002	09/06/2023	Fluoride, total	0.220	mg/L
MW-6	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-6	Compliance	E002	09/06/2023	Lithium, total	0.0015 U	mg/L
MW-6	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-6	Compliance	E002	09/06/2023	Molybdenum, total	0.0006 U	mg/L
MW-6	Compliance	E002	09/06/2023	Oxidation Reduction Potential	39.0	mV
MW-6	Compliance	E002	09/06/2023	pH (field)	6.5	SU
MW-6	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.527	pCi/L
MW-6	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-6	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	1,450	micromhos/cm
MW-6	Compliance	E002	09/06/2023	Sulfate, total	151	mg/L
MW-6	Compliance	E002	09/06/2023	Temperature	16.0	degrees C
MW-6	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-6	Compliance	E002	09/06/2023	Total Dissolved Solids	584	mg/L
MW-6	Compliance	E002	09/06/2023	Turbidity, field	6.70	NTU
MW-7	Compliance	E002	09/07/2023	Antimony, total	0.0004 U	mg/L
MW-7	Compliance	E002	09/07/2023	Arsenic, total	0.0006 J	mg/L
MW-7	Compliance	E002	09/07/2023	Barium, total	0.0388	mg/L
MW-7	Compliance	E002	09/07/2023	Beryllium, total	0.0002 U	mg/L
MW-7	Compliance	E002	09/07/2023	Boron, total	0.450	mg/L
MW-7	Compliance	E002	09/07/2023	Cadmium, total	0.0002 U	mg/L
MW-7	Compliance	E002	09/07/2023	Calcium, total	145	mg/L
MW-7	Compliance	E002	09/07/2023	Chloride, total	6.00	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-7	Compliance	E002	09/07/2023	Chromium, total	0.0007 U	mg/L
MW-7	Compliance	E002	09/07/2023	Cobalt, total	0.001 UJ	mg/L
MW-7	Compliance	E002	09/07/2023	Dissolved Oxygen	0.680	mg/L
MW-7	Compliance	E002	09/07/2023	Fluoride, total	0.300	mg/L
MW-7	Compliance	E002	09/07/2023	Lead, total	0.0006 U	mg/L
MW-7	Compliance	E002	09/07/2023	Lithium, total	0.0023 J	mg/L
MW-7	Compliance	E002	09/07/2023	Mercury, total	0.00006 U	mg/L
MW-7	Compliance	E002	09/07/2023	Molybdenum, total	0.00350	mg/L
MW-7	Compliance	E002	09/07/2023	Oxidation Reduction Potential	2.00	mV
MW-7	Compliance	E002	09/07/2023	pH (field)	6.8	SU
MW-7	Compliance	E002	09/07/2023	Radium 226 + Radium 228, total	0.733	pCi/L
MW-7	Compliance	E002	09/07/2023	Selenium, total	0.0006 U	mg/L
MW-7	Compliance	E002	09/07/2023	Specific Conductance @ 25C (field)	1,910	micromhos/cm
MW-7	Compliance	E002	09/07/2023	Sulfate, total	259	mg/L
MW-7	Compliance	E002	09/07/2023	Temperature	16.6	degrees C
MW-7	Compliance	E002	09/07/2023	Thallium, total	0.001 U	mg/L
MW-7	Compliance	E002	09/07/2023	Total Dissolved Solids	824	mg/L
MW-7	Compliance	E002	09/07/2023	Turbidity, field	10.0	NTU
MW-8	Compliance	E002	09/07/2023	Antimony, total	0.0004 U	mg/L
MW-8	Compliance	E002	09/07/2023	Arsenic, total	0.0004 U	mg/L
MW-8	Compliance	E002	09/07/2023	Barium, total	0.0278	mg/L
MW-8	Compliance	E002	09/07/2023	Beryllium, total	0.0002 U	mg/L
MW-8	Compliance	E002	09/07/2023	Boron, total	0.997	mg/L
MW-8	Compliance	E002	09/07/2023	Cadmium, total	0.0002 U	mg/L
MW-8	Compliance	E002	09/07/2023	Calcium, total	151	mg/L
MW-8	Compliance	E002	09/07/2023	Chloride, total	20.0	mg/L
MW-8	Compliance	E002	09/07/2023	Chromium, total	0.0007 UJ	mg/L
MW-8	Compliance	E002	09/07/2023	Cobalt, total	0.00120	mg/L
MW-8	Compliance	E002	09/07/2023	Dissolved Oxygen	0.570	mg/L
MW-8	Compliance	E002	09/07/2023	Fluoride, total	0.230	mg/L
MW-8	Compliance	E002	09/07/2023	Lead, total	0.0006 U	mg/L
MW-8	Compliance	E002	09/07/2023	Lithium, total	0.0017 J	mg/L
MW-8	Compliance	E002	09/07/2023	Mercury, total	0.00006 U	mg/L
MW-8	Compliance	E002	09/07/2023	Molybdenum, total	0.0006 U	mg/L
MW-8	Compliance	E002	09/07/2023	Oxidation Reduction Potential	32.0	mV
MW-8	Compliance	E002	09/07/2023	pH (field)	6.6	SU
MW-8	Compliance	E002	09/07/2023	Radium 226 + Radium 228, total	0.438	pCi/L
MW-8	Compliance	E002	09/07/2023	Selenium, total	0.0006 U	mg/L
MW-8	Compliance	E002	09/07/2023	Specific Conductance @ 25C (field)	2,010	micromhos/cm
MW-8	Compliance	E002	09/07/2023	Sulfate, total	214	mg/L
MW-8	Compliance	E002	09/07/2023	Temperature	15.0	degrees C
MW-8	Compliance	E002	09/07/2023	Thallium, total	0.001 U	mg/L
MW-8	Compliance	E002	09/07/2023	Total Dissolved Solids	858	mg/L
MW-8	Compliance	E002	09/07/2023	Turbidity, field	1.80	NTU
MW-11	Compliance	E002	09/05/2023	Antimony, total	0.0004 U	mg/L
MW-11	Compliance	E002	09/05/2023	Arsenic, total	0.00170	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-11	Compliance	E002	09/05/2023	Barium, total	0.128	mg/L
MW-11	Compliance	E002	09/05/2023	Beryllium, total	0.0002 U	mg/L
MW-11	Compliance	E002	09/05/2023	Boron, total	1.87	mg/L
MW-11	Compliance	E002	09/05/2023	Cadmium, total	0.0002 U	mg/L
MW-11	Compliance	E002	09/05/2023	Calcium, total	115	mg/L
MW-11	Compliance	E002	09/05/2023	Chloride, total	32.0	mg/L
MW-11	Compliance	E002	09/05/2023	Chromium, total	0.001 U	mg/L
MW-11	Compliance	E002	09/05/2023	Cobalt, total	0.001 UJ	mg/L
MW-11	Compliance	E002	09/05/2023	Dissolved Oxygen	0.570	mg/L
MW-11	Compliance	E002	09/05/2023	Fluoride, total	0.560	mg/L
MW-11	Compliance	E002	09/05/2023	Lead, total	0.0006 U	mg/L
MW-11	Compliance	E002	09/05/2023	Lithium, total	0.0024 J	mg/L
MW-11	Compliance	E002	09/05/2023	Mercury, total	0.00006 U	mg/L
MW-11	Compliance	E002	09/05/2023	Molybdenum, total	0.00480	mg/L
MW-11	Compliance	E002	09/05/2023	Oxidation Reduction Potential	-5.00	mV
MW-11	Compliance	E002	09/05/2023	pH (field)	6.7	SU
MW-11	Compliance	E002	09/05/2023	Radium 226 + Radium 228, total	0.645	pCi/L
MW-11	Compliance	E002	09/05/2023	Selenium, total	0.0006 U	mg/L
MW-11	Compliance	E002	09/05/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
MW-11	Compliance	E002	09/05/2023	Sulfate, total	129	mg/L
MW-11	Compliance	E002	09/05/2023	Temperature	17.8	degrees C
MW-11	Compliance	E002	09/05/2023	Thallium, total	0.001 U	mg/L
MW-11	Compliance	E002	09/05/2023	Total Dissolved Solids	650	mg/L
MW-11	Compliance	E002	09/05/2023	Turbidity, field	2.10	NTU
MW-12	Compliance	E002	09/07/2023	Antimony, total	0.0004 U	mg/L
MW-12	Compliance	E002	09/07/2023	Arsenic, total	0.0004 U	mg/L
MW-12	Compliance	E002	09/07/2023	Barium, total	0.0866	mg/L
MW-12	Compliance	E002	09/07/2023	Beryllium, total	0.0002 U	mg/L
MW-12	Compliance	E002	09/07/2023	Boron, total	3.94	mg/L
MW-12	Compliance	E002	09/07/2023	Cadmium, total	0.0002 U	mg/L
MW-12	Compliance	E002	09/07/2023	Calcium, total	204	mg/L
MW-12	Compliance	E002	09/07/2023	Chloride, total	29.0	mg/L
MW-12	Compliance	E002	09/07/2023	Chromium, total	0.0007 U	mg/L
MW-12	Compliance	E002	09/07/2023	Cobalt, total	0.001 UJ	mg/L
MW-12	Compliance	E002	09/07/2023	Dissolved Oxygen	0.520	mg/L
MW-12	Compliance	E002	09/07/2023	Fluoride, total	0.200	mg/L
MW-12	Compliance	E002	09/07/2023	Lead, total	0.0006 U	mg/L
MW-12	Compliance	E002	09/07/2023	Lithium, total	0.00890	mg/L
MW-12	Compliance	E002	09/07/2023	Mercury, total	0.00006 U	mg/L
MW-12	Compliance	E002	09/07/2023	Molybdenum, total	0.0006 U	mg/L
MW-12	Compliance	E002	09/07/2023	Oxidation Reduction Potential	-58.0	mV
MW-12	Compliance	E002	09/07/2023	pH (field)	6.5	SU
MW-12	Compliance	E002	09/07/2023	Radium 226 + Radium 228, total	0.764	pCi/L
MW-12	Compliance	E002	09/07/2023	Selenium, total	0.0006 U	mg/L
MW-12	Compliance	E002	09/07/2023	Specific Conductance @ 25C (field)	2,550	micromhos/cm
MW-12	Compliance	E002	09/07/2023	Sulfate, total	380	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-12	Compliance	E002	09/07/2023	Temperature	16.0	degrees C
MW-12	Compliance	E002	09/07/2023	Thallium, total	0.001 U	mg/L
MW-12	Compliance	E002	09/07/2023	Total Dissolved Solids	1,190	mg/L
MW-12	Compliance	E002	09/07/2023	Turbidity, field	8.00	NTU
MW-20	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-20	Compliance	E002	09/06/2023	Arsenic, total	0.0006 J	mg/L
MW-20	Compliance	E002	09/06/2023	Barium, total	0.105	mg/L
MW-20	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-20	Compliance	E002	09/06/2023	Boron, total	0.642	mg/L
MW-20	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-20	Compliance	E002	09/06/2023	Calcium, total	122	mg/L
MW-20	Compliance	E002	09/06/2023	Chloride, total	20.0	mg/L
MW-20	Compliance	E002	09/06/2023	Chromium, total	0.0007 U	mg/L
MW-20	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-20	Compliance	E002	09/06/2023	Dissolved Oxygen	0.580	mg/L
MW-20	Compliance	E002	09/06/2023	Fluoride, total	0.390	mg/L
MW-20	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-20	Compliance	E002	09/06/2023	Lithium, total	0.00460	mg/L
MW-20	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-20	Compliance	E002	09/06/2023	Molybdenum, total	0.00430	mg/L
MW-20	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-227	mV
MW-20	Compliance	E002	09/06/2023	pH (field)	6.9	SU
MW-20	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.49	pCi/L
MW-20	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-20	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	1,750	micromhos/cm
MW-20	Compliance	E002	09/06/2023	Sulfate, total	140	mg/L
MW-20	Compliance	E002	09/06/2023	Temperature	15.7	degrees C
MW-20	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-20	Compliance	E002	09/06/2023	Total Dissolved Solids	642	mg/L
MW-20	Compliance	E002	09/06/2023	Turbidity, field	9.30	NTU
MW-20S	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Arsenic, total	0.0006 J	mg/L
MW-20S	Compliance	E002	09/06/2023	Barium, total	0.0346	mg/L
MW-20S	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Boron, total	2.13	mg/L
MW-20S	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Calcium, total	180	mg/L
MW-20S	Compliance	E002	09/06/2023	Chloride, total	18.0	mg/L
MW-20S	Compliance	E002	09/06/2023	Chromium, total	0.0007 UJ	mg/L
MW-20S	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-20S	Compliance	E002	09/06/2023	Dissolved Oxygen	0.920	mg/L
MW-20S	Compliance	E002	09/06/2023	Fluoride, total	0.220	mg/L
MW-20S	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Lithium, total	0.0015 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Molybdenum, total	0.0006 U	mg/L

**TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023**

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-20S	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-210	mV
MW-20S	Compliance	E002	09/06/2023	pH (field)	6.7	SU
MW-20S	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.623	pCi/L
MW-20S	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	2,500	micromhos/cm
MW-20S	Compliance	E002	09/06/2023	Sulfate, total	352	mg/L
MW-20S	Compliance	E002	09/06/2023	Temperature	19.0	degrees C
MW-20S	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-20S	Compliance	E002	09/06/2023	Total Dissolved Solids	1,030	mg/L
MW-20S	Compliance	E002	09/06/2023	Turbidity, field	7.80	NTU
MW-23	Compliance	E002	09/05/2023	Antimony, total	0.0004 U	mg/L
MW-23	Compliance	E002	09/05/2023	Arsenic, total	0.00140	mg/L
MW-23	Compliance	E002	09/05/2023	Barium, total	0.0980	mg/L
MW-23	Compliance	E002	09/05/2023	Beryllium, total	0.0002 U	mg/L
MW-23	Compliance	E002	09/05/2023	Boron, total	2.39	mg/L
MW-23	Compliance	E002	09/05/2023	Cadmium, total	0.0002 U	mg/L
MW-23	Compliance	E002	09/05/2023	Calcium, total	109	mg/L
MW-23	Compliance	E002	09/05/2023	Chloride, total	26.0	mg/L
MW-23	Compliance	E002	09/05/2023	Chromium, total	0.001 U	mg/L
MW-23	Compliance	E002	09/05/2023	Cobalt, total	0.001 UJ	mg/L
MW-23	Compliance	E002	09/05/2023	Dissolved Oxygen	0.740	mg/L
MW-23	Compliance	E002	09/05/2023	Fluoride, total	0.400	mg/L
MW-23	Compliance	E002	09/05/2023	Lead, total	0.0006 U	mg/L
MW-23	Compliance	E002	09/05/2023	Lithium, total	0.0015 U	mg/L
MW-23	Compliance	E002	09/05/2023	Mercury, total	0.00006 U	mg/L
MW-23	Compliance	E002	09/05/2023	Molybdenum, total	0.002 UJ	mg/L
MW-23	Compliance	E002	09/05/2023	Oxidation Reduction Potential	13.0	mV
MW-23	Compliance	E002	09/05/2023	pH (field)	6.8	SU
MW-23	Compliance	E002	09/05/2023	Radium 226 + Radium 228, total	0.593	pCi/L
MW-23	Compliance	E002	09/05/2023	Selenium, total	0.0006 U	mg/L
MW-23	Compliance	E002	09/05/2023	Specific Conductance @ 25C (field)	1,700	micromhos/cm
MW-23	Compliance	E002	09/05/2023	Sulfate, total	48.0	mg/L
MW-23	Compliance	E002	09/05/2023	Temperature	15.6	degrees C
MW-23	Compliance	E002	09/05/2023	Thallium, total	0.001 U	mg/L
MW-23	Compliance	E002	09/05/2023	Total Dissolved Solids	634	mg/L
MW-23	Compliance	E002	09/05/2023	Turbidity, field	3.50	NTU
MW-28	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-28	Compliance	E002	09/06/2023	Arsenic, total	0.0004 J	mg/L
MW-28	Compliance	E002	09/06/2023	Barium, total	0.0233	mg/L
MW-28	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-28	Compliance	E002	09/06/2023	Boron, total	9.88	mg/L
MW-28	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-28	Compliance	E002	09/06/2023	Calcium, total	264	mg/L
MW-28	Compliance	E002	09/06/2023	Chloride, total	14.0	mg/L
MW-28	Compliance	E002	09/06/2023	Chromium, total	0.0007 U	mg/L
MW-28	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-28	Compliance	E002	09/06/2023	Dissolved Oxygen	0.550	mg/L
MW-28	Compliance	E002	09/06/2023	Fluoride, total	0.150	mg/L
MW-28	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-28	Compliance	E002	09/06/2023	Lithium, total	0.00630	mg/L
MW-28	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-28	Compliance	E002	09/06/2023	Molybdenum, total	0.00450	mg/L
MW-28	Compliance	E002	09/06/2023	Oxidation Reduction Potential	19.0	mV
MW-28	Compliance	E002	09/06/2023	pH (field)	6.8	SU
MW-28	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.558	pCi/L
MW-28	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-28	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	3,880	micromhos/cm
MW-28	Compliance	E002	09/06/2023	Sulfate, total	920	mg/L
MW-28	Compliance	E002	09/06/2023	Temperature	16.1	degrees C
MW-28	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-28	Compliance	E002	09/06/2023	Total Dissolved Solids	1,860	mg/L
MW-28	Compliance	E002	09/06/2023	Turbidity, field	4.10	NTU
MW-30	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-30	Compliance	E002	09/06/2023	Arsenic, total	0.00680	mg/L
MW-30	Compliance	E002	09/06/2023	Barium, total	0.164	mg/L
MW-30	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-30	Compliance	E002	09/06/2023	Boron, total	1.20	mg/L
MW-30	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-30	Compliance	E002	09/06/2023	Calcium, total	111	mg/L
MW-30	Compliance	E002	09/06/2023	Chloride, total	41.0	mg/L
MW-30	Compliance	E002	09/06/2023	Chromium, total	0.0007 U	mg/L
MW-30	Compliance	E002	09/06/2023	Cobalt, total	0.00210	mg/L
MW-30	Compliance	E002	09/06/2023	Dissolved Oxygen	0.740	mg/L
MW-30	Compliance	E002	09/06/2023	Fluoride, total	0.330	mg/L
MW-30	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-30	Compliance	E002	09/06/2023	Lithium, total	0.0015 U	mg/L
MW-30	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-30	Compliance	E002	09/06/2023	Molybdenum, total	0.00220	mg/L
MW-30	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-86.0	mV
MW-30	Compliance	E002	09/06/2023	pH (field)	6.7	SU
MW-30	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.585	pCi/L
MW-30	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-30	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	1,860	micromhos/cm
MW-30	Compliance	E002	09/06/2023	Sulfate, total	6 J	mg/L
MW-30	Compliance	E002	09/06/2023	Temperature	15.4	degrees C
MW-30	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-30	Compliance	E002	09/06/2023	Total Dissolved Solids	565	mg/L
MW-30	Compliance	E002	09/06/2023	Turbidity, field	9.70	NTU
MW-31	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-31	Compliance	E002	09/06/2023	Arsenic, total	0.00230	mg/L
MW-31	Compliance	E002	09/06/2023	Barium, total	0.206	mg/L
MW-31	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-31	Compliance	E002	09/06/2023	Boron, total	0.224	mg/L
MW-31	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-31	Compliance	E002	09/06/2023	Calcium, total	123	mg/L
MW-31	Compliance	E002	09/06/2023	Chloride, total	44.0	mg/L
MW-31	Compliance	E002	09/06/2023	Chromium, total	0.0007 UJ	mg/L
MW-31	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-31	Compliance	E002	09/06/2023	Dissolved Oxygen	0.930	mg/L
MW-31	Compliance	E002	09/06/2023	Fluoride, total	0.180	mg/L
MW-31	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-31	Compliance	E002	09/06/2023	Lithium, total	0.00370	mg/L
MW-31	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-31	Compliance	E002	09/06/2023	Molybdenum, total	0.002 UJ	mg/L
MW-31	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-101	mV
MW-31	Compliance	E002	09/06/2023	pH (field)	6.7	SU
MW-31	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.656	pCi/L
MW-31	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-31	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	1,790	micromhos/cm
MW-31	Compliance	E002	09/06/2023	Sulfate, total	6 U	mg/L
MW-31	Compliance	E002	09/06/2023	Temperature	15.9	degrees C
MW-31	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-31	Compliance	E002	09/06/2023	Total Dissolved Solids	565	mg/L
MW-31	Compliance	E002	09/06/2023	Turbidity, field	7.60	NTU
MW-31S	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Arsenic, total	0.0182	mg/L
MW-31S	Compliance	E002	09/06/2023	Barium, total	0.254	mg/L
MW-31S	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Boron, total	0.0362	mg/L
MW-31S	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Calcium, total	155	mg/L
MW-31S	Compliance	E002	09/06/2023	Chromium, total	0.0007 UJ	mg/L
MW-31S	Compliance	E002	09/06/2023	Cobalt, total	0.00410	mg/L
MW-31S	Compliance	E002	09/06/2023	Dissolved Oxygen	1.30	mg/L
MW-31S	Compliance	E002	09/06/2023	Lead, total	0.00240	mg/L
MW-31S	Compliance	E002	09/06/2023	Lithium, total	0.0015 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Molybdenum, total	0.002 UJ	mg/L
MW-31S	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-140	mV
MW-31S	Compliance	E002	09/06/2023	pH (field)	6.7	SU
MW-31S	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	2,210	micromhos/cm
MW-31S	Compliance	E002	09/06/2023	Temperature	15.8	degrees C
MW-31S	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-31S	Compliance	E002	09/06/2023	Turbidity, field	28.0	NTU
MW-32	Compliance	E002	09/06/2023	Antimony, total	0.0004 U	mg/L
MW-32	Compliance	E002	09/06/2023	Arsenic, total	0.0005 J	mg/L
MW-32	Compliance	E002	09/06/2023	Barium, total	0.0518	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
MW-32	Compliance	E002	09/06/2023	Beryllium, total	0.0002 U	mg/L
MW-32	Compliance	E002	09/06/2023	Boron, total	1.81	mg/L
MW-32	Compliance	E002	09/06/2023	Cadmium, total	0.0002 U	mg/L
MW-32	Compliance	E002	09/06/2023	Calcium, total	165	mg/L
MW-32	Compliance	E002	09/06/2023	Chloride, total	10.0	mg/L
MW-32	Compliance	E002	09/06/2023	Chromium, total	0.0007 U	mg/L
MW-32	Compliance	E002	09/06/2023	Cobalt, total	0.001 UJ	mg/L
MW-32	Compliance	E002	09/06/2023	Dissolved Oxygen	0.700	mg/L
MW-32	Compliance	E002	09/06/2023	Fluoride, total	0.190	mg/L
MW-32	Compliance	E002	09/06/2023	Lead, total	0.0006 U	mg/L
MW-32	Compliance	E002	09/06/2023	Lithium, total	0.0015 U	mg/L
MW-32	Compliance	E002	09/06/2023	Mercury, total	0.00006 U	mg/L
MW-32	Compliance	E002	09/06/2023	Molybdenum, total	0.0006 U	mg/L
MW-32	Compliance	E002	09/06/2023	Oxidation Reduction Potential	-22.0	mV
MW-32	Compliance	E002	09/06/2023	pH (field)	6.6	SU
MW-32	Compliance	E002	09/06/2023	Radium 226 + Radium 228, total	0.704	pCi/L
MW-32	Compliance	E002	09/06/2023	Selenium, total	0.0006 U	mg/L
MW-32	Compliance	E002	09/06/2023	Specific Conductance @ 25C (field)	2,470	micromhos/cm
MW-32	Compliance	E002	09/06/2023	Sulfate, total	340	mg/L
MW-32	Compliance	E002	09/06/2023	Temperature	16.0	degrees C
MW-32	Compliance	E002	09/06/2023	Thallium, total	0.001 U	mg/L
MW-32	Compliance	E002	09/06/2023	Total Dissolved Solids	1,050	mg/L
MW-32	Compliance	E002	09/06/2023	Turbidity, field	3.40	NTU

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
 845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-3	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-3	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.01	0.01	Standard	No Exceedance
MW-3	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	24	0	CI around median	0.0461	2	Standard	No Exceedance
MW-3	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-3	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	24	0	CI around median	1.57	2	Standard	No Exceedance
MW-3	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-3	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	24	0	CI around mean	30.7	200	Standard	No Exceedance
MW-3	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	24	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-3	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	24	90	CI around median	0.001	0.006	Standard	No Exceedance
MW-3	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	24	0	CI around mean	0.242	4	Standard	No Exceedance
MW-3	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-3	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.003	0.04	Standard	No Exceedance
MW-3	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-3	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.01	0.1	Standard	No Exceedance
MW-3	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	24	0	CB around linear reg	6.4/6.7	5.6/9	Background/Standard	No Exceedance
MW-3	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/06/17 - 06/13/23	20	0	CI around median	0.195	5	Standard	No Exceedance
MW-3	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-3	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	24	0	CB around linear reg	114	400	Standard	No Exceedance
MW-3	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	24	97	CB around T-S line	0.002	0.002	Standard	No Exceedance
MW-3	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	24	0	CB around linear reg	539	1,200	Standard	No Exceedance
MW-5	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-5	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	28	91	CI around median	0.001	0.01	Standard	No Exceedance
MW-5	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.142	2	Standard	No Exceedance
MW-5	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-5	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.529	2	Standard	No Exceedance
MW-5	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-5	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	45.1	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-5	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	28	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-5	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	28	91	CI around median	0.001	0.006	Standard	No Exceedance
MW-5	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	28	3	CB around T-S line	0.16	4	Standard	No Exceedance
MW-5	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	28	97	CI around median	0.001	0.0075	Standard	No Exceedance
MW-5	UA	E001	Lithium, total	mg/L	12/15/15 - 06/13/23	20	30	CB around linear reg	0.0029	0.04	Standard	No Exceedance
MW-5	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-5	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/13/23	20	100	All ND - Last	0.01	0.1	Standard	No Exceedance
MW-5	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	28	0	CB around linear reg	6.3/6.7	5.6/9	Background/Standard	No Exceedance
MW-5	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/13/23	29	0	CI around median	0.265	5	Standard	No Exceedance
MW-5	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-5	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	28	36	CI around median	10	400	Standard	No Exceedance
MW-5	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	25	97	CB around T-S line	0.0018	0.002	Standard	No Exceedance
MW-5	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	672	1,200	Standard	No Exceedance
MW-6	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-6	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.01	0.01	Standard	No Exceedance
MW-6	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.0338	2	Standard	No Exceedance
MW-6	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-6	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.94	2	Standard	No Exceedance
MW-6	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-6	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	28	54	CB around T-S line	2.18	200	Standard	No Exceedance
MW-6	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	28	91	CB around T-S line	0.00149	0.1	Standard	No Exceedance
MW-6	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-6	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	0.19	4	Standard	No Exceedance
MW-6	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-6	UA	E001	Lithium, total	mg/L	12/15/15 - 06/13/23	20	85	CB around T-S line	0.00223	0.04	Standard	No Exceedance
MW-6	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-6	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/13/23	20	100	All ND - Last	0.01	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-8	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.01	0.01	Standard	No Exceedance
MW-8	UA	E001	Barium, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	0.0193	2	Standard	No Exceedance
MW-8	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-8	UA	E001	Boron, total	mg/L	12/15/15 - 06/12/23	28	0	CI around geomean	0.954	2	Standard	No Exceedance
MW-8	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-8	UA	E001	Chloride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	14.3	200	Standard	No Exceedance
MW-8	UA	E001	Chromium, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.005	0.1	Standard	No Exceedance
MW-8	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/12/23	28	30	CB around linear reg	0.000827	0.006	Standard	No Exceedance
MW-8	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	0.222	4	Standard	No Exceedance
MW-8	UA	E001	Lead, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-8	UA	E001	Lithium, total	mg/L	12/15/15 - 06/12/23	20	45	CB around linear reg	0.00293	0.04	Standard	No Exceedance
MW-8	UA	E001	Mercury, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-8	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/12/23	20	100	All ND - Last	0.01	0.1	Standard	No Exceedance
MW-8	UA	E001	pH (field)	SU	12/15/15 - 06/12/23	28	0	CI around mean	6.6/6.7	5.6/9	Background/Standard	No Exceedance
MW-8	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/12/23	29	0	CI around median	0.2	5	Standard	No Exceedance
MW-8	UA	E001	Selenium, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-8	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	225	400	Standard	No Exceedance
MW-8	UA	E001	Thallium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-8	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	762	1,200	Standard	No Exceedance
MW-11	UA	E001	Antimony, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-11	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/12/23	28	21	CI around median	0.0012	0.01	Standard	No Exceedance
MW-11	UA	E001	Barium, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.129	2	Standard	No Exceedance
MW-11	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-11	UA	E001	Boron, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	1.55	2	Standard	No Exceedance
MW-11	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-11	UA	E001	Chloride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	30.1	200	Standard	No Exceedance
MW-11	UA	E001	Chromium, total	mg/L	12/15/15 - 06/12/23	28	96	CB around T-S line	0.00147	0.1	Standard	No Exceedance

**TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-23	UA	E001	Fluoride, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	0.341	4	Standard	No Exceedance
MW-23	UA	E001	Lead, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-23	UA	E001	Lithium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.003	0.04	Standard	No Exceedance
MW-23	UA	E001	Mercury, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-23	UA	E001	Molybdenum, total	mg/L	02/26/21 - 06/12/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
MW-23	UA	E001	pH (field)	SU	02/26/21 - 06/12/23	10	0	CI around mean	6.5/6.8	5.6/9	Background/Standard	No Exceedance
MW-23	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 06/12/23	10	0	CI around mean	0.14	5	Standard	No Exceedance
MW-23	UA	E001	Selenium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-23	UA	E001	Sulfate, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	42.3	400	Standard	No Exceedance
MW-23	UA	E001	Thallium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-23	UA	E001	Total Dissolved Solids	mg/L	02/26/21 - 06/12/23	9	0	CI around mean	575	1,200	Standard	No Exceedance
MW-27	USCU	E001	pH (field)	SU	02/24/21 - 06/12/23	10	0	CI around mean	6.6/6.9	5.6/9	Background/Standard	No Exceedance
MW-28	UA	E001	Antimony, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-28	UA	E001	Arsenic, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.01	0.01	Standard	No Exceedance
MW-28	UA	E001	Barium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.0214	2	Standard	No Exceedance
MW-28	UA	E001	Beryllium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-28	UA	E001	Boron, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	8.58	2	Standard	Determined
MW-28	UA	E001	Cadmium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-28	UA	E001	Chloride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	12.4	200	Standard	No Exceedance
MW-28	UA	E001	Chromium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
MW-28	UA	E001	Cobalt, total	mg/L	02/24/21 - 06/13/23	10	80	CI around median	0.001	0.006	Standard	No Exceedance
MW-28	UA	E001	Fluoride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around median	0.12	4	Standard	No Exceedance
MW-28	UA	E001	Lead, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-28	UA	E001	Lithium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.00596	0.04	Standard	No Exceedance
MW-28	UA	E001	Mercury, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-28	UA	E001	Molybdenum, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.01	0.1	Standard	No Exceedance
MW-28	UA	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.5/6.9	5.6/9	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-31	UA	E001	Barium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.217	2	Standard	No Exceedance
MW-31	UA	E001	Beryllium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-31	UA	E001	Boron, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.246	2	Standard	No Exceedance
MW-31	UA	E001	Cadmium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-31	UA	E001	Chloride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	48.1	200	Standard	No Exceedance
MW-31	UA	E001	Chromium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
MW-31	UA	E001	Cobalt, total	mg/L	02/24/21 - 06/13/23	10	80	CI around median	0.001	0.006	Standard	No Exceedance
MW-31	UA	E001	Fluoride, total	mg/L	02/24/21 - 06/13/23	10	0	CB around linear reg	0.131	4	Standard	No Exceedance
MW-31	UA	E001	Lead, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-31	UA	E001	Lithium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.00488	0.04	Standard	No Exceedance
MW-31	UA	E001	Mercury, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-31	UA	E001	Molybdenum, total	mg/L	02/24/21 - 06/13/23	10	40	CI around median	0.0015	0.1	Standard	No Exceedance
MW-31	UA	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.4/6.7	5.6/9	Background/Standard	No Exceedance
MW-31	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 06/13/23	10	0	CI around mean	0.491	5	Standard	No Exceedance
MW-31	UA	E001	Selenium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-31	UA	E001	Sulfate, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	10	400	Standard	No Exceedance
MW-31	UA	E001	Thallium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-31	UA	E001	Total Dissolved Solids	mg/L	02/24/21 - 06/13/23	9	0	CI around mean	574	1,200	Standard	No Exceedance
MW-31S	USCU	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.4/6.7	5.6/9	Background/Standard	No Exceedance
MW-32	UA	E001	Antimony, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-32	UA	E001	Arsenic, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.01	Standard	No Exceedance
MW-32	UA	E001	Barium, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	0.0257	2	Standard	No Exceedance
MW-32	UA	E001	Beryllium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0005	0.004	Standard	No Exceedance
MW-32	UA	E001	Boron, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	1.5	2	Standard	No Exceedance
MW-32	UA	E001	Cadmium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.005	Standard	No Exceedance
MW-32	UA	E001	Chloride, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	10.1	200	Standard	No Exceedance
MW-32	UA	E001	Chromium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
MW-32	UA	E001	Cobalt, total	mg/L	02/25/21 - 06/13/23	10	70	CI around median	0.001	0.006	Standard	No Exceedance
MW-32	UA	E001	Fluoride, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.17	4	Standard	No Exceedance
MW-32	UA	E001	Lead, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0075	Standard	No Exceedance
MW-32	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.003	0.04	Standard	No Exceedance
MW-32	UA	E001	Mercury, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-32	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.01	0.1	Standard	No Exceedance
MW-32	UA	E001	pH (field)	SU	02/25/21 - 06/13/23	10	0	CI around mean	6.2/6.5	5.6/9	Background/Standard	No Exceedance
MW-32	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 06/13/23	10	0	CI around median	0	5	Standard	No Exceedance
MW-32	UA	E001	Selenium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-32	UA	E001	Sulfate, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	429	400	Standard	Determined
MW-32	UA	E001	Thallium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-32	UA	E001	Total Dissolved Solids	mg/L	02/25/21 - 06/13/23	9	0	CI around median	1,100	1,200	Standard	No Exceedance
PZ-4C	UA	E001	Antimony, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
PZ-4C	UA	E001	Arsenic, total	mg/L	02/25/21 - 06/13/23	10	50	CB around T-S line	0.001	0.01	Standard	No Exceedance
PZ-4C	UA	E001	Barium, total	mg/L	02/25/21 - 06/13/23	10	0	CB around T-S line	0.274	2	Standard	No Exceedance
PZ-4C	UA	E001	Beryllium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.004	Standard	No Exceedance
PZ-4C	UA	E001	Boron, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	1.34	2	Standard	No Exceedance
PZ-4C	UA	E001	Cadmium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
PZ-4C	UA	E001	Chloride, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	30.3	200	Standard	No Exceedance
PZ-4C	UA	E001	Chromium, total	mg/L	02/25/21 - 06/13/23	10	40	CI around median	0.0015	0.1	Standard	No Exceedance
PZ-4C	UA	E001	Cobalt, total	mg/L	02/25/21 - 06/13/23	10	70	CI around median	0.001	0.006	Standard	No Exceedance
PZ-4C	UA	E001	Fluoride, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.388	4	Standard	No Exceedance
PZ-4C	UA	E001	Lead, total	mg/L	02/25/21 - 06/13/23	10	50	CB around T-S line	0.001	0.0075	Standard	No Exceedance
PZ-4C	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	0	CI around median	0.0067	0.04	Standard	No Exceedance
PZ-4C	UA	E001	Mercury, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
PZ-4C	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	80	CI around median	0.0015	0.1	Standard	No Exceedance
PZ-4C	UA	E001	pH (field)	SU	02/25/21 - 06/13/23	10	0	CI around mean	6.5/7.1	5.6/9	Background/Standard	No Exceedance

**TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023**

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Exceedance Type
PZ-4C	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 06/13/23	10	0	CI around geomean	0.439	5	Standard	No Exceedance
PZ-4C	UA	E001	Selenium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
PZ-4C	UA	E001	Sulfate, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	65.8	400	Standard	No Exceedance
PZ-4C	UA	E001	Thallium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
PZ-4C	UA	E001	Total Dissolved Solids	mg/L	02/25/21 - 06/13/23	9	0	CI around median	546	1,200	Standard	No Exceedance

Notes:

Exceedance Type:

No Exceedance: No exceedance of the GWPS and no resample was collected.

Determined: An exceedance was determined without comparison to a resample.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

USCU = Upper Semi-Confining Unit

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

For pH, the values presented are the lower / upper limits

GWPS = Groundwater Protection Standard

GWPS Source:

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

Background = background concentration (see cover page for additional information)

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-3	UA	E002	Antimony, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-3	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.010	Standard	No Exceedance
MW-3	UA	E002	Barium, total	mg/L	12/15/15 - 09/05/23	25	0	CI around median	0.0453	2.0	Standard	No Exceedance
MW-3	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-3	UA	E002	Boron, total	mg/L	12/15/15 - 09/05/23	25	0	CI around median	1.57	2	Standard	No Exceedance
MW-3	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-3	UA	E002	Chloride, total	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	27.6	200	Standard	No Exceedance
MW-3	UA	E002	Chromium, total	mg/L	12/15/15 - 09/05/23	25	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-3	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/05/23	25	90	CI around median	0.001	0.006	Standard	No Exceedance
MW-3	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/05/23	25	0	CI around mean	0.243	4.0	Standard	No Exceedance
MW-3	UA	E002	Lead, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-3	UA	E002	Lithium, total	mg/L	02/25/21 - 09/05/23	11	91	CI around median	0.003	0.04	Standard	No Exceedance
MW-3	UA	E002	Mercury, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-3	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/05/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-3	UA	E002	pH (field)	SU	12/15/15 - 09/05/23	25	0	CB around linear reg	6.4/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-3	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/06/17 - 09/05/23	21	0	CI around median	0.271	5	Standard	No Exceedance
MW-3	UA	E002	Selenium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-3	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	112	400	Standard	No Exceedance
MW-3	UA	E002	Thallium, total	mg/L	12/15/15 - 09/05/23	25	97	CB around T-S line	0.002	0.002	Standard	No Exceedance
MW-3	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	540	1,200	Standard	No Exceedance
MW-5	UA	E002	Antimony, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-5	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/06/23	29	91	CI around median	0.001	0.010	Standard	No Exceedance
MW-5	UA	E002	Barium, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.142	2.0	Standard	No Exceedance
MW-5	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-5	UA	E002	Boron, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.531	2	Standard	No Exceedance
MW-5	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-5	UA	E002	Chloride, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	44.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-5	UA	E002	Chromium, total	mg/L	12/15/15 - 09/06/23	29	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-5	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/06/23	29	91	CI around median	0.001	0.006	Standard	No Exceedance
MW-5	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/06/23	29	3	CB around T-S line	0.16	4.0	Standard	No Exceedance
MW-5	UA	E002	Lead, total	mg/L	12/15/15 - 09/06/23	29	97	CI around median	0.001	0.0075	Standard	No Exceedance
MW-5	UA	E002	Lithium, total	mg/L	12/15/15 - 09/06/23	21	33	CI around mean	0.00269	0.04	Standard	No Exceedance
MW-5	UA	E002	Mercury, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-5	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/06/23	21	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-5	UA	E002	pH (field)	SU	12/15/15 - 09/06/23	29	0	CB around linear reg	6.4/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-5	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/06/23	30	0	CI around median	0.265	5	Standard	No Exceedance
MW-5	UA	E002	Selenium, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-5	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/06/23	29	35	CI around median	10	400	Standard	No Exceedance
MW-5	UA	E002	Thallium, total	mg/L	12/15/15 - 09/06/23	26	97	CB around T-S line	0.00183	0.002	Standard	No Exceedance
MW-5	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	679	1,200	Standard	No Exceedance
MW-6	UA	E002	Antimony, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-6	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.010	Standard	No Exceedance
MW-6	UA	E002	Barium, total	mg/L	12/15/15 - 09/06/23	29	0	CB around T-S line	0.0362	2.0	Standard	No Exceedance
MW-6	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-6	UA	E002	Boron, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.956	2	Standard	No Exceedance
MW-6	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-6	UA	E002	Chloride, total	mg/L	12/15/15 - 09/06/23	29	53	CB around T-S line	2.03	200	Standard	No Exceedance
MW-6	UA	E002	Chromium, total	mg/L	12/15/15 - 09/06/23	29	88	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-6	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-6	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	0.194	4.0	Standard	No Exceedance
MW-6	UA	E002	Lead, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-6	UA	E002	Lithium, total	mg/L	12/15/15 - 09/06/23	21	86	CB around T-S line	0.00266	0.04	Standard	No Exceedance
MW-6	UA	E002	Mercury, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-6	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/06/23	21	100	All ND - Last	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-6	UA	E002	pH (field)	SU	12/15/15 - 09/06/23	29	0	CI around mean	6.5/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-6	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/06/23	30	0	CI around median	0.35	5	Standard	No Exceedance
MW-6	UA	E002	Selenium, total	mg/L	12/15/15 - 09/06/23	29	94	CI around median	0.001	0.05	Standard	No Exceedance
MW-6	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	55.3	400	Standard	No Exceedance
MW-6	UA	E002	Thallium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-6	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	366	1,200	Standard	No Exceedance
MW-7	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-7	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	76	CI around median	0.001	0.010	Standard	No Exceedance
MW-7	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.03	2.0	Standard	No Exceedance
MW-7	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-7	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	0.213	2	Standard	No Exceedance
MW-7	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-7	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	76	CB around T-S line	2.47	200	Standard	No Exceedance
MW-7	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	94	CB around T-S line	0.0015	0.1	Standard	No Exceedance
MW-7	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	88	CI around median	0.001	0.006	Standard	No Exceedance
MW-7	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	0.253	4.0	Standard	No Exceedance
MW-7	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-7	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	33	CI around geomean	0.00263	0.04	Standard	No Exceedance
MW-7	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-7	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	5	CI around mean	0.00262	0.1	Standard	No Exceedance
MW-7	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CB around linear reg	6.7/7.1	5.6/9.0	Background/Standard	No Exceedance
MW-7	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around geomean	0.45	5	Standard	No Exceedance
MW-7	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-7	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CI around geomean	171	400	Standard	No Exceedance
MW-7	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-7	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	563	1,200	Standard	No Exceedance
MW-8	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-8	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.010	Standard	No Exceedance
MW-8	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.0197	2.0	Standard	No Exceedance
MW-8	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-8	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around geomean	0.955	2	Standard	No Exceedance
MW-8	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-8	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	14.6	200	Standard	No Exceedance
MW-8	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-8	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	29	CB around linear reg	0.000844	0.006	Standard	No Exceedance
MW-8	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around T-S line	0.219	4.0	Standard	No Exceedance
MW-8	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-8	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	48	CB around linear reg	0.00293	0.04	Standard	No Exceedance
MW-8	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-8	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-8	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CI around mean	6.6/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-8	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around median	0.2	5	Standard	No Exceedance
MW-8	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-8	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	218	400	Standard	No Exceedance
MW-8	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-8	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	767	1,200	Standard	No Exceedance
MW-11	UA	E002	Antimony, total	mg/L	12/15/15 - 09/05/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-11	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/05/23	29	21	CI around median	0.0012	0.010	Standard	No Exceedance
MW-11	UA	E002	Barium, total	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	0.112	2.0	Standard	No Exceedance
MW-11	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/05/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-11	UA	E002	Boron, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	1.56	2	Standard	No Exceedance
MW-11	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-11	UA	E002	Chloride, total	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	29.8	200	Standard	No Exceedance
MW-11	UA	E002	Chromium, total	mg/L	12/15/15 - 09/05/23	29	97	CB around T-S line	0.00149	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
 845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-11	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/05/23	29	93	CI around median	0.001	0.006	Standard	No Exceedance
MW-11	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	0.494	4.0	Standard	No Exceedance
MW-11	UA	E002	Lead, total	mg/L	12/15/15 - 09/05/23	29	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-11	UA	E002	Lithium, total	mg/L	12/15/15 - 09/05/23	21	43	CB around linear reg	0.00279	0.04	Standard	No Exceedance
MW-11	UA	E002	Mercury, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-11	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/05/23	21	5	CI around median	0.0021	0.1	Standard	No Exceedance
MW-11	UA	E002	pH (field)	SU	12/15/15 - 09/05/23	29	0	CB around linear reg	6.5/6.8	5.6/9.0	Background/Standard	No Exceedance
MW-11	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/05/23	30	0	CI around mean	0.535	5	Standard	No Exceedance
MW-11	UA	E002	Selenium, total	mg/L	12/15/15 - 09/05/23	29	62	CI around median	0.001	0.05	Standard	No Exceedance
MW-11	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	107	400	Standard	No Exceedance
MW-11	UA	E002	Thallium, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-11	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	584	1,200	Standard	No Exceedance
MW-12	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-12	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	97	CI around median	0.001	0.010	Standard	No Exceedance
MW-12	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.0549	2.0	Standard	No Exceedance
MW-12	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-12	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	2.68	2	Standard	Exceedance
MW-12	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-12	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	18.9	200	Standard	No Exceedance
MW-12	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-12	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-12	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CI around median	0.18	4.0	Standard	No Exceedance
MW-12	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-12	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	0	CI around mean	0.00835	0.04	Standard	No Exceedance
MW-12	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-12	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	90	CB around T-S line	0.00144	0.1	Standard	No Exceedance
MW-12	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CB around linear reg	6.3/6.7	5.6/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-12	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around median	0.429	5	Standard	No Exceedance
MW-12	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	97	CI around median	0.001	0.05	Standard	No Exceedance
MW-12	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	363	400	Standard	No Exceedance
MW-12	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-12	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	1,080	1,200	Standard	No Exceedance
MW-20	UA	E002	Antimony, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-20	UA	E002	Arsenic, total	mg/L	02/26/21 - 09/06/23	11	46	CI around median	0.001	0.010	Standard	No Exceedance
MW-20	UA	E002	Barium, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	0.103	2.0	Standard	No Exceedance
MW-20	UA	E002	Beryllium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-20	UA	E002	Boron, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	0.514	2	Standard	No Exceedance
MW-20	UA	E002	Cadmium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-20	UA	E002	Chloride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	22.3	200	Standard	No Exceedance
MW-20	UA	E002	Chromium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-20	UA	E002	Cobalt, total	mg/L	02/26/21 - 09/06/23	11	91	CI around median	0.001	0.006	Standard	No Exceedance
MW-20	UA	E002	Fluoride, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	0.319	4.0	Standard	No Exceedance
MW-20	UA	E002	Lead, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-20	UA	E002	Lithium, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	-0.00462	0.04	Standard	No Exceedance
MW-20	UA	E002	Mercury, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-20	UA	E002	Molybdenum, total	mg/L	02/26/21 - 09/06/23	11	9	CB around linear reg	-0.00114	0.1	Standard	No Exceedance
MW-20	UA	E002	pH (field)	SU	02/26/21 - 09/06/23	11	0	CI around mean	6.8/7.1	5.6/9.0	Background/Standard	No Exceedance
MW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/06/23	11	0	CI around mean	0.196	5	Standard	No Exceedance
MW-20	UA	E002	Selenium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-20	UA	E002	Sulfate, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	141	400	Standard	No Exceedance
MW-20	UA	E002	Thallium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-20	UA	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/06/23	10	0	CB around linear reg	621	1,200	Standard	No Exceedance
MW-20S	USCU	E002	Antimony, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-20S	USCU	E002	Arsenic, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-20S	USCU	E002	Barium, total	mg/L	02/26/21 - 09/06/23	11	9	CI around median	0.0346	2.0	Standard	No Exceedance
MW-20S	USCU	E002	Beryllium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-20S	USCU	E002	Boron, total	mg/L	02/26/21 - 09/06/23	11	0	CB around T-S line	1.7	2	Standard	No Exceedance
MW-20S	USCU	E002	Cadmium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-20S	USCU	E002	Chloride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	17.1	200	Standard	No Exceedance
MW-20S	USCU	E002	Chromium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-20S	USCU	E002	Cobalt, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-20S	USCU	E002	Fluoride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	0.176	4.0	Standard	No Exceedance
MW-20S	USCU	E002	Lead, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-20S	USCU	E002	Lithium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.003	0.04	Standard	No Exceedance
MW-20S	USCU	E002	Mercury, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-20S	USCU	E002	Molybdenum, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-20S	USCU	E002	pH (field)	SU	02/26/21 - 09/06/23	11	0	CI around mean	6.5/6.8	5.6/9.0	Background/Standard	No Exceedance
MW-20S	USCU	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/06/23	11	0	CI around mean	0.0887	5	Standard	No Exceedance
MW-20S	USCU	E002	Selenium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-20S	USCU	E002	Sulfate, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	330	400	Standard	No Exceedance
MW-20S	USCU	E002	Thallium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-20S	USCU	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/06/23	10	0	CB around linear reg	997	1,200	Standard	No Exceedance
MW-23	UA	E002	Antimony, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-23	UA	E002	Arsenic, total	mg/L	02/26/21 - 09/05/23	11	54	CI around median	0.001	0.010	Standard	No Exceedance
MW-23	UA	E002	Barium, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	0.0807	2.0	Standard	No Exceedance
MW-23	UA	E002	Beryllium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-23	UA	E002	Boron, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	1.67	2	Standard	No Exceedance
MW-23	UA	E002	Cadmium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-23	UA	E002	Chloride, total	mg/L	02/26/21 - 09/05/23	11	0	CB around linear reg	24.8	200	Standard	No Exceedance
MW-23	UA	E002	Chromium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-23	UA	E002	Cobalt, total	mg/L	02/26/21 - 09/05/23	11	36	CI around median	0.001	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-23	UA	E002	Fluoride, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	0.343	4.0	Standard	No Exceedance
MW-23	UA	E002	Lead, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-23	UA	E002	Lithium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.003	0.04	Standard	No Exceedance
MW-23	UA	E002	Mercury, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-23	UA	E002	Molybdenum, total	mg/L	02/26/21 - 09/05/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
MW-23	UA	E002	pH (field)	SU	02/26/21 - 09/05/23	11	0	CI around mean	6.5/6.8	5.6/9.0	Background/Standard	No Exceedance
MW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/05/23	11	0	CI around mean	0.187	5	Standard	No Exceedance
MW-23	UA	E002	Selenium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-23	UA	E002	Sulfate, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	42.8	400	Standard	No Exceedance
MW-23	UA	E002	Thallium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-23	UA	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/05/23	10	0	CI around mean	578	1,200	Standard	No Exceedance
MW-28	UA	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-28	UA	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.010	Standard	No Exceedance
MW-28	UA	E002	Barium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.0217	2.0	Standard	No Exceedance
MW-28	UA	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-28	UA	E002	Boron, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	8.71	2	Standard	Exceedance
MW-28	UA	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-28	UA	E002	Chloride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	12.5	200	Standard	No Exceedance
MW-28	UA	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-28	UA	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	11	82	CI around median	0.001	0.006	Standard	No Exceedance
MW-28	UA	E002	Fluoride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around median	0.12	4.0	Standard	No Exceedance
MW-28	UA	E002	Lead, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-28	UA	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.006	0.04	Standard	No Exceedance
MW-28	UA	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-28	UA	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
MW-28	UA	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.5/6.9	5.6/9.0	Background/Standard	No Exceedance
MW-28	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 09/06/23	11	0	CB around linear reg	0.196	5	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-28	UA	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-28	UA	E002	Sulfate, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	817	400	Standard	Exceedance
MW-28	UA	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-28	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	1,620	1,200	Standard	Exceedance
MW-30	UA	E002	Antimony, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-30	UA	E002	Arsenic, total	mg/L	02/25/21 - 09/06/23	11	9	CB around linear reg	0.0017	0.010	Standard	No Exceedance
MW-30	UA	E002	Barium, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.151	2.0	Standard	No Exceedance
MW-30	UA	E002	Beryllium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-30	UA	E002	Boron, total	mg/L	02/25/21 - 09/06/23	11	0	CI around geomean	1.09	2	Standard	No Exceedance
MW-30	UA	E002	Cadmium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-30	UA	E002	Chloride, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	46.3	200	Standard	No Exceedance
MW-30	UA	E002	Chromium, total	mg/L	02/25/21 - 09/06/23	11	73	CI around median	0.0015	0.1	Standard	No Exceedance
MW-30	UA	E002	Cobalt, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.00203	0.006	Standard	No Exceedance
MW-30	UA	E002	Fluoride, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	0.273	4.0	Standard	No Exceedance
MW-30	UA	E002	Lead, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-30	UA	E002	Lithium, total	mg/L	02/25/21 - 09/06/23	11	82	CB around T-S line	-0.0131	0.04	Standard	No Exceedance
MW-30	UA	E002	Mercury, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-30	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/06/23	11	36	CI around geomean	0.00155	0.1	Standard	No Exceedance
MW-30	UA	E002	pH (field)	SU	02/25/21 - 09/06/23	11	0	CI around mean	6.4/6.6	5.6/9.0	Background/Standard	No Exceedance
MW-30	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 09/06/23	11	0	CI around geomean	0.54	5	Standard	No Exceedance
MW-30	UA	E002	Selenium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-30	UA	E002	Sulfate, total	mg/L	02/25/21 - 09/06/23	11	27	CB around linear reg	-40.9	400	Standard	No Exceedance
MW-30	UA	E002	Thallium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-30	UA	E002	Total Dissolved Solids	mg/L	02/25/21 - 09/06/23	10	0	CI around median	612	1,200	Standard	No Exceedance
MW-31	UA	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-31	UA	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	11	9	CI around mean	0.00235	0.010	Standard	No Exceedance
MW-31	UA	E002	Barium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.215	2.0	Standard	No Exceedance

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845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-31	UA	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-31	UA	E002	Boron, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.241	2	Standard	No Exceedance
MW-31	UA	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-31	UA	E002	Chloride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	47.2	200	Standard	No Exceedance
MW-31	UA	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-31	UA	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	11	82	CI around median	0.001	0.006	Standard	No Exceedance
MW-31	UA	E002	Fluoride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.167	4.0	Standard	No Exceedance
MW-31	UA	E002	Lead, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-31	UA	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.00462	0.04	Standard	No Exceedance
MW-31	UA	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-31	UA	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	11	46	CI around median	0.0015	0.1	Standard	No Exceedance
MW-31	UA	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.5/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-31	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 09/06/23	11	0	CI around mean	0.51	5	Standard	No Exceedance
MW-31	UA	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-31	UA	E002	Sulfate, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	10	400	Standard	No Exceedance
MW-31	UA	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-31	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	571	1,200	Standard	No Exceedance
MW-31S	USCU	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	10	80	CI around median	0.001	0.006	Standard	No Exceedance
MW-31S	USCU	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	0.00449	0.010	Standard	No Exceedance
MW-31S	USCU	E002	Barium, total	mg/L	02/24/21 - 09/06/23	10	0	CI around geomean	0.191	2.0	Standard	No Exceedance
MW-31S	USCU	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	10	90	CI around median	0.001	0.004	Standard	No Exceedance
MW-31S	USCU	E002	Boron, total	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	0.0419	2	Standard	No Exceedance
MW-31S	USCU	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-31S	USCU	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	10	40	CI around geomean	0.00175	0.1	Standard	No Exceedance
MW-31S	USCU	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	10	0	CI around geomean	0.00281	0.006	Standard	No Exceedance
MW-31S	USCU	E002	Lead, total	mg/L	02/24/21 - 09/06/23	10	30	CI around geomean	0.00116	0.0075	Standard	No Exceedance
MW-31S	USCU	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	10	50	CI around median	0.003	0.04	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
MW-31S	USCU	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-31S	USCU	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	10	20	CI around mean	0.00238	0.1	Standard	No Exceedance
MW-31S	USCU	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.4/6.7	5.6/9.0	Background/Standard	No Exceedance
MW-31S	USCU	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-31S	USCU	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-32	UA	E002	Antimony, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
MW-32	UA	E002	Arsenic, total	mg/L	02/25/21 - 09/06/23	11	91	CI around median	0.001	0.010	Standard	No Exceedance
MW-32	UA	E002	Barium, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	0.029	2.0	Standard	No Exceedance
MW-32	UA	E002	Beryllium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
MW-32	UA	E002	Boron, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	1.52	2	Standard	No Exceedance
MW-32	UA	E002	Cadmium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
MW-32	UA	E002	Chloride, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	9.54	200	Standard	No Exceedance
MW-32	UA	E002	Chromium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-32	UA	E002	Cobalt, total	mg/L	02/25/21 - 09/06/23	11	73	CI around median	0.001	0.006	Standard	No Exceedance
MW-32	UA	E002	Fluoride, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.171	4.0	Standard	No Exceedance
MW-32	UA	E002	Lead, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.0075	Standard	No Exceedance
MW-32	UA	E002	Lithium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.003	0.04	Standard	No Exceedance
MW-32	UA	E002	Mercury, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
MW-32	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0015	0.1	Standard	No Exceedance
MW-32	UA	E002	pH (field)	SU	02/25/21 - 09/06/23	11	0	CI around mean	6.3/6.6	5.6/9.0	Background/Standard	No Exceedance
MW-32	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 09/06/23	11	0	CI around mean	0.0518	5	Standard	No Exceedance
MW-32	UA	E002	Selenium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
MW-32	UA	E002	Sulfate, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	407	400	Standard	Exceedance
MW-32	UA	E002	Thallium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
MW-32	UA	E002	Total Dissolved Solids	mg/L	02/25/21 - 09/06/23	10	0	CI around median	1,050	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

USCU = Upper Semi-Confining Unit

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range

For pH, the values presented are the lower / upper limits

GWPS = Groundwater Protection Standard

GWPS Source:

Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

Background = background concentration (see cover page for additional information)

FIGURES

PROJECT: 169000X.XXX | DATED: 1/16/2024 | DESIGNER: GALARNIMC
Y:\Mapping\Projects\222285\MXD\845_Annual\2023\KIN\Figure 1_Monitoring Well Location.mxd



- COMPLIANCE MONITORING WELL
- PORE WATER WELL
- REGULATED UNIT (SUBJECT UNIT)
- MONITORING WELL
- BACKGROUND MONITORING WELL
- STAFF GAGE, LAKE
- STAFF GAGE, CCR UNIT
- PROPERTY BOUNDARY



MONITORING WELL LOCATION MAP

FIGURE 1

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
KINCAID POWER PLANT
KINCAID, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- TOTAL BORON EXCEEDANCE
- TOTAL SULFATE EXCEEDANCE
- TOTAL DISSOLVED SOLIDS EXCEEDANCE
- COMPLIANCE WELL LOCATION WITHOUT EXCEEDANCE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY



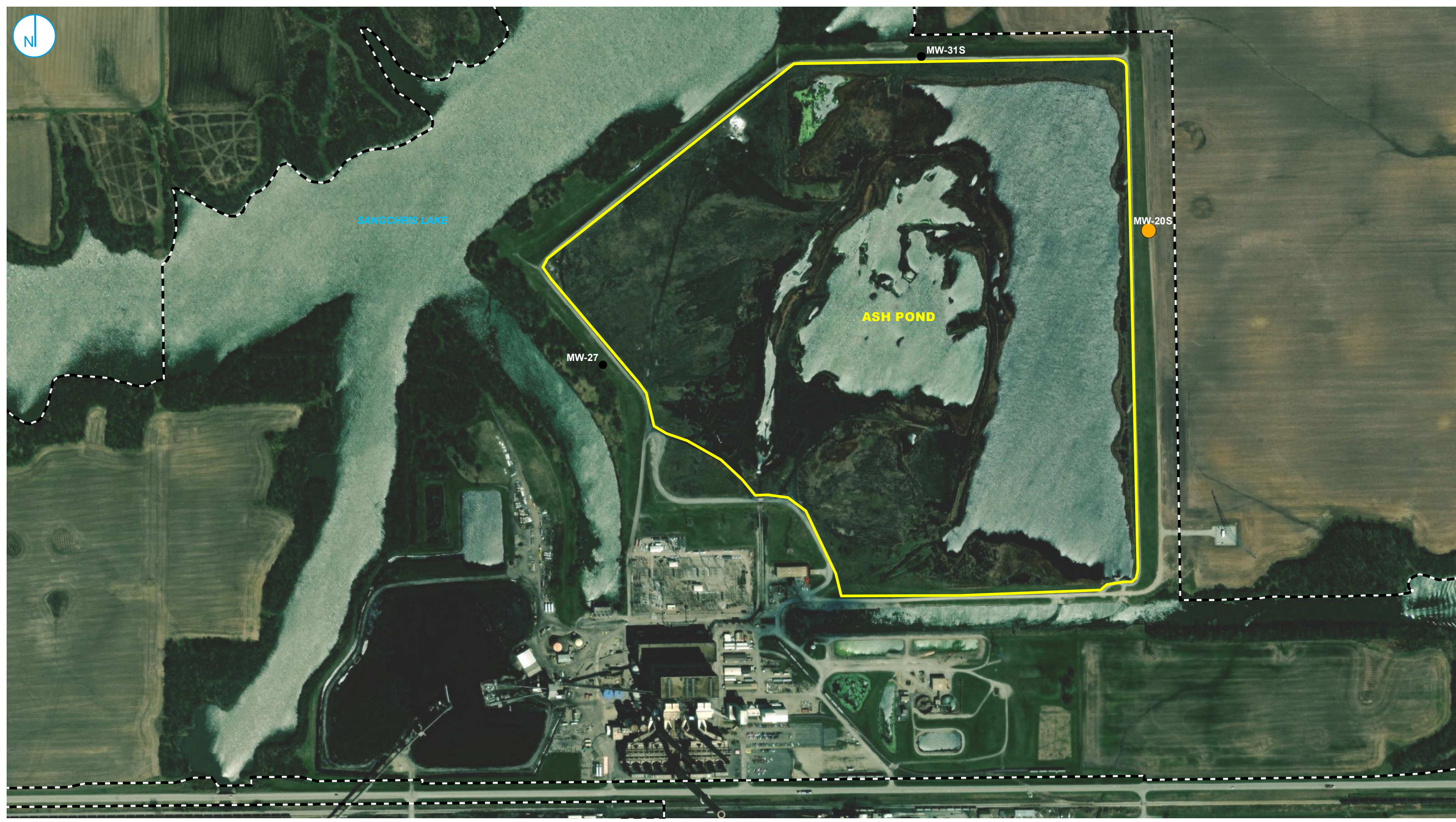
GWPS EXCEEDANCE MAP
UPPERMOST AQUIFER - QUARTERS 2-3, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
KINCAID POWER PLANT
KINCAID, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- TOTAL SULFATE EXCEEDANCE
- COMPLIANCE WELL LOCATION WITHOUT EXCEEDANCE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 250 500
Feet

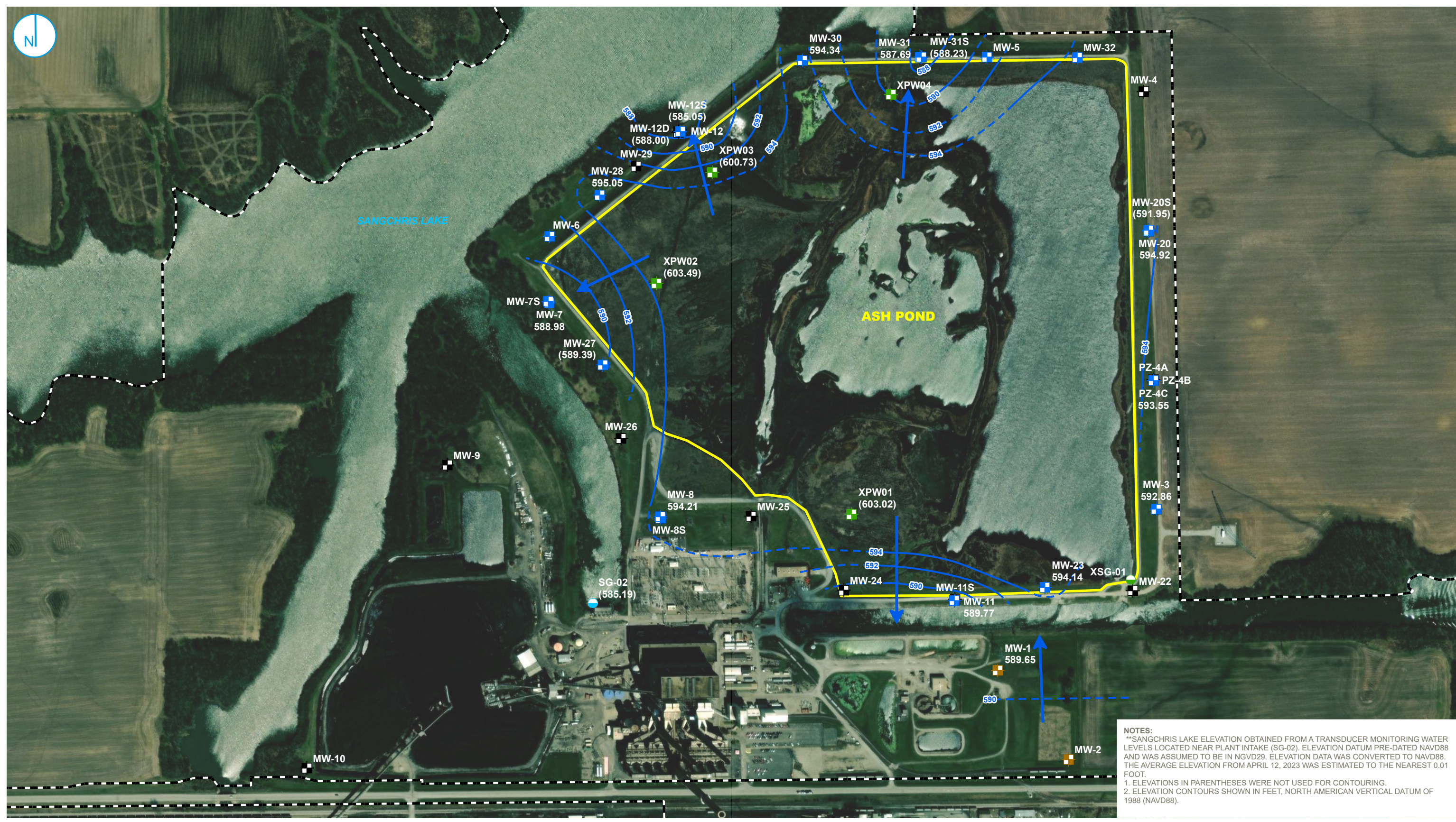
GWPS EXCEEDANCE MAP
UPPER SEMI-CONFINING UNIT - QUARTERS 2-3, 2023

FIGURE 3

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
KINCAID POWER PLANT
KINCAID, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM APRIL 12, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- PROPERTY BOUNDARY
- REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION



**POTENTIOMETRIC SURFACE MAP
 APRIL 12, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS**

FIGURE 4

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM MAY 12, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- PROPERTY BOUNDARY
- REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

0 250 500 Feet

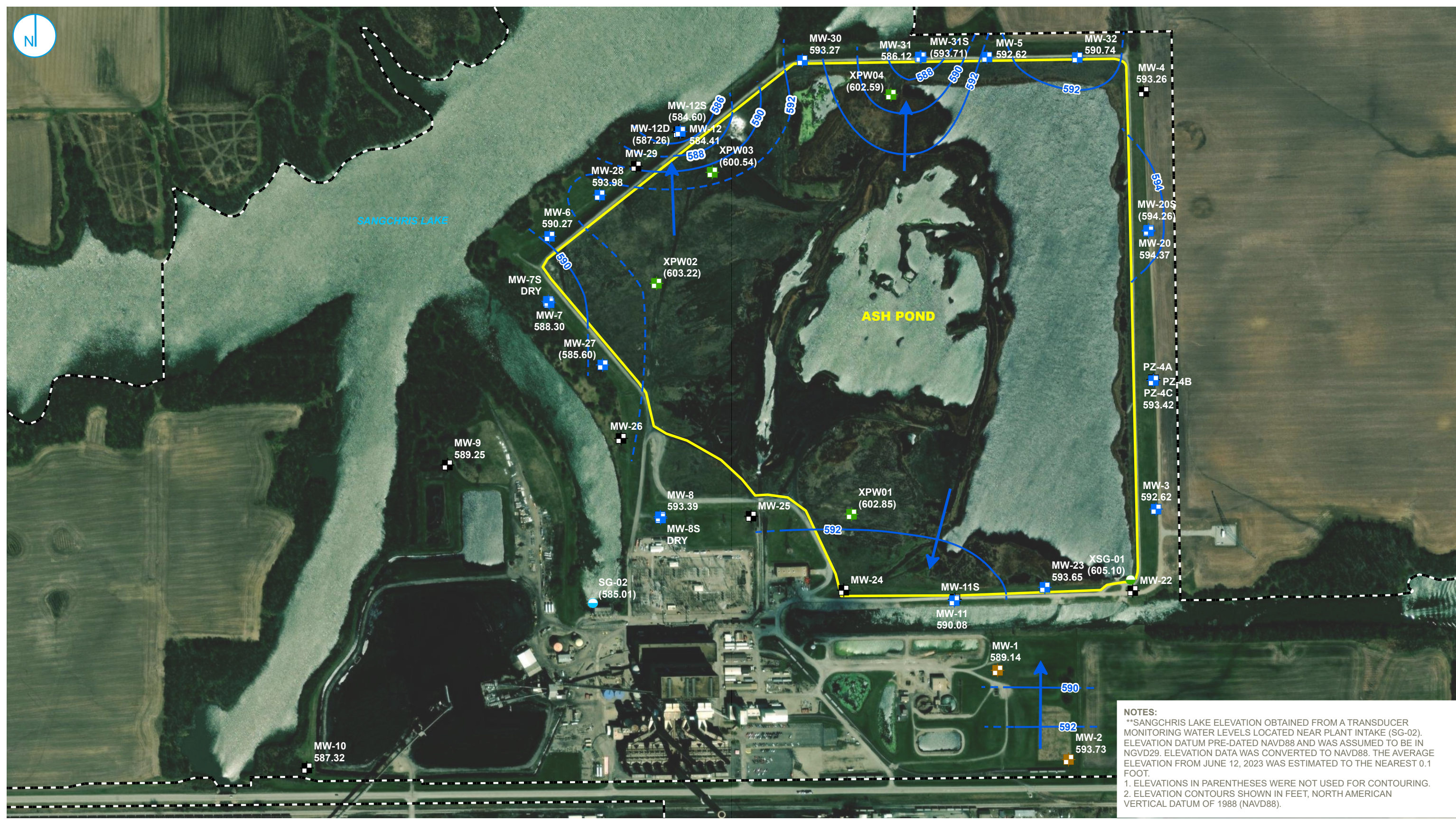
**POTENTIOMETRIC SURFACE MAP
MAY 12, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
KINCAID POWER PLANT
KINCAID, ILLINOIS**

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM JUNE 12, 2023 WAS ESTIMATED TO THE NEAREST 0.1 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- MONITORING WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION



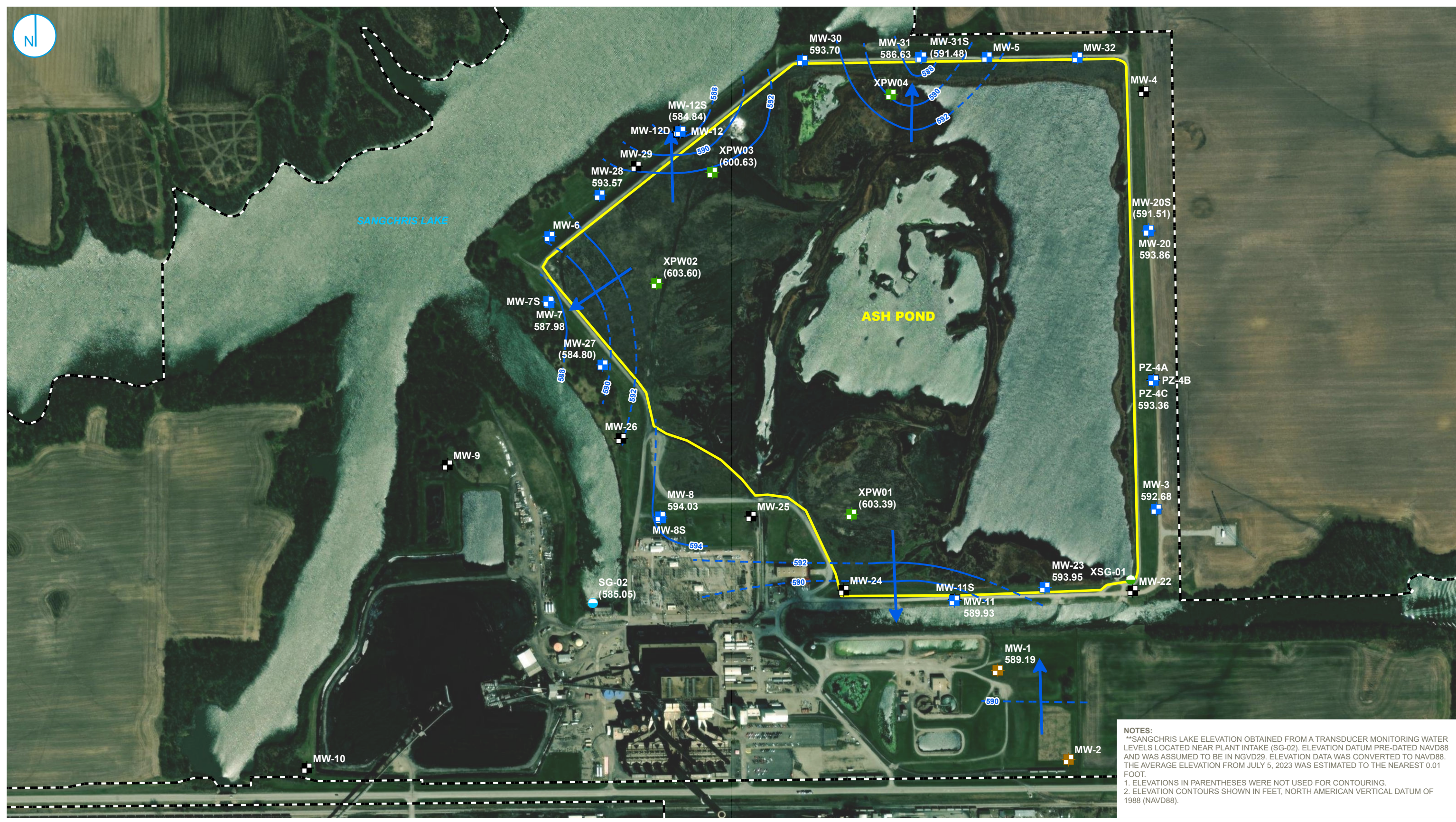
**POTENTIOMETRIC SURFACE MAP
 JUNE 12, 2023**

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS

FIGURE 6

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM JULY 5, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- PROPERTY BOUNDARY
- REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION



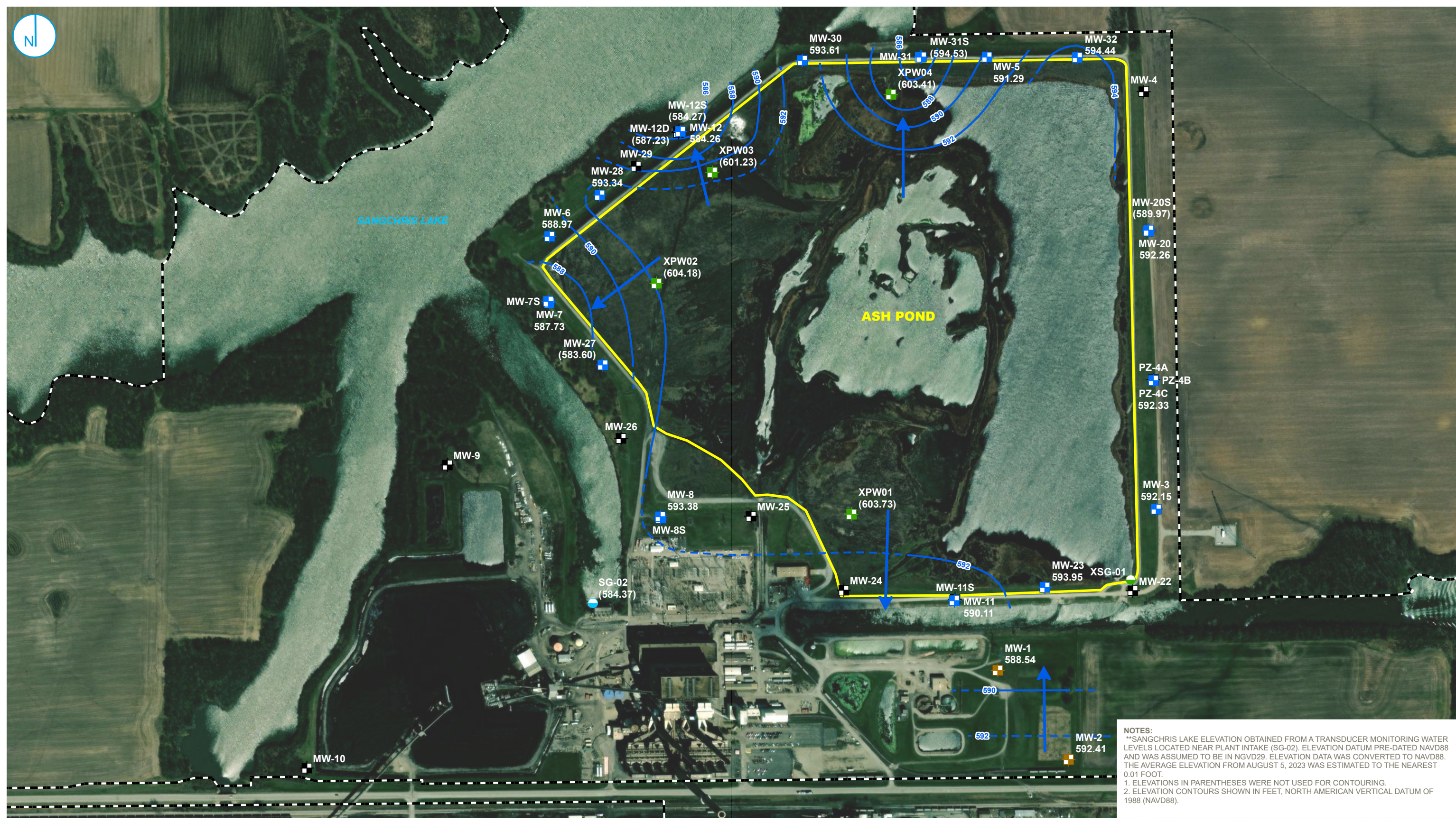
**POTENTIOMETRIC SURFACE MAP
 JULY 5, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS**

FIGURE 7

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM AUGUST 5, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION



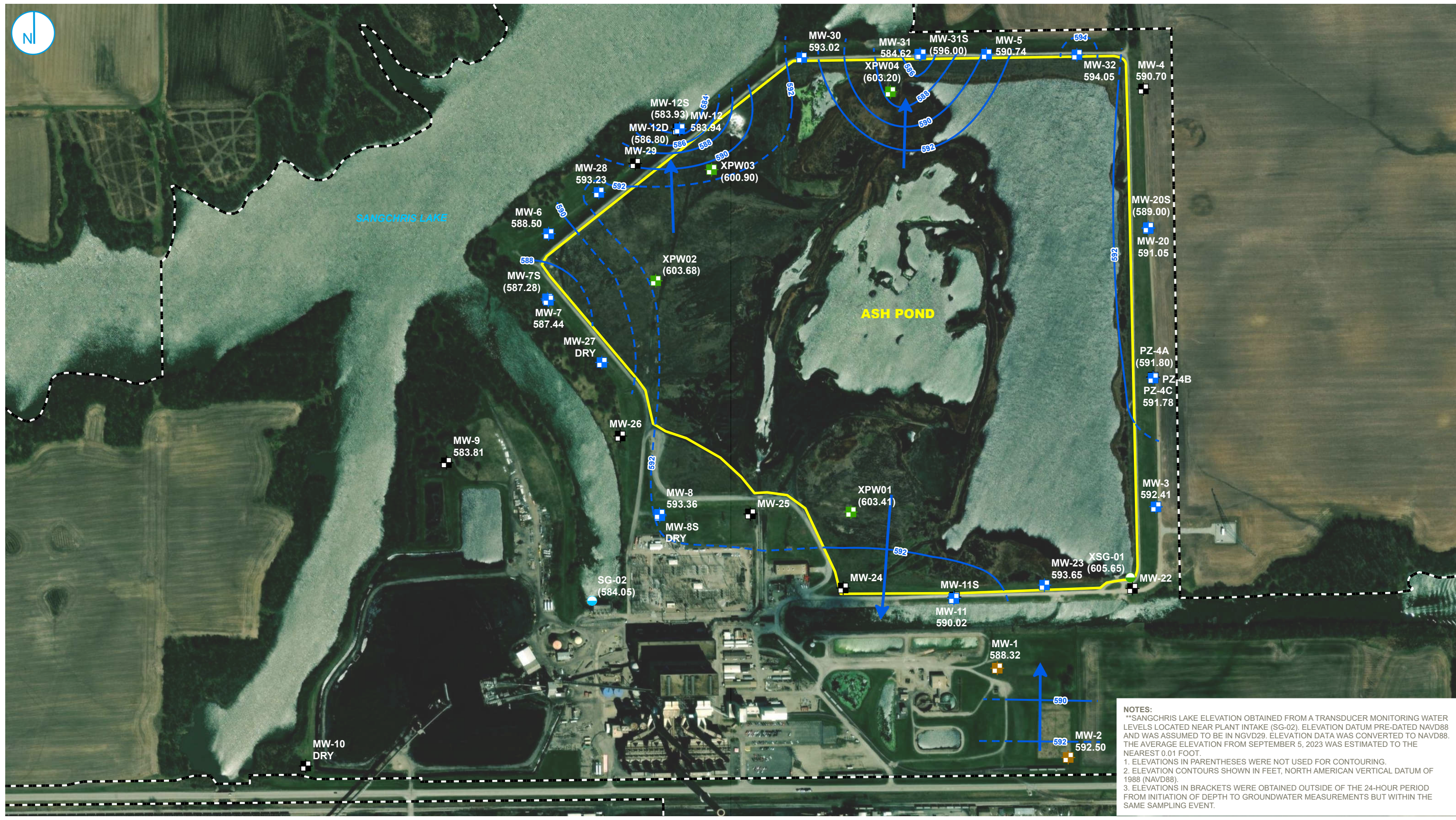
POTENTIOMETRIC SURFACE MAP AUGUST 5, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS

FIGURE 8

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM SEPTEMBER 5, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 3. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- PROPERTY BOUNDARY
- REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 250 500 Feet

**POTENTIOMETRIC SURFACE MAP
 SEPTEMBER 5-6, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS**

FIGURE 9

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM OCTOBER 23, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 250 500 Feet

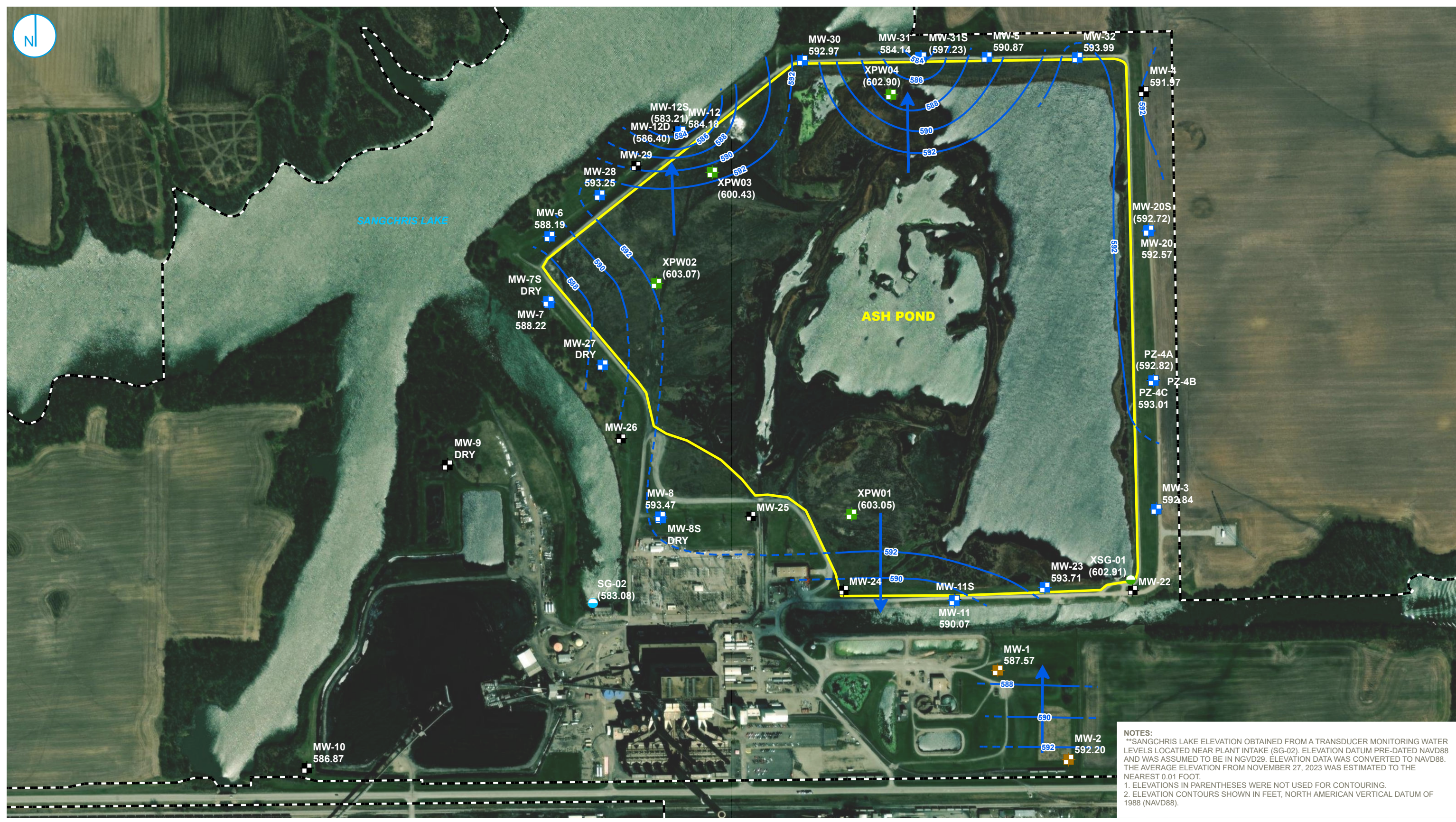
**POTENTIOMETRIC SURFACE MAP
 OCTOBER 23, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS**

FIGURE 10

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM NOVEMBER 27, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 250 500 Feet

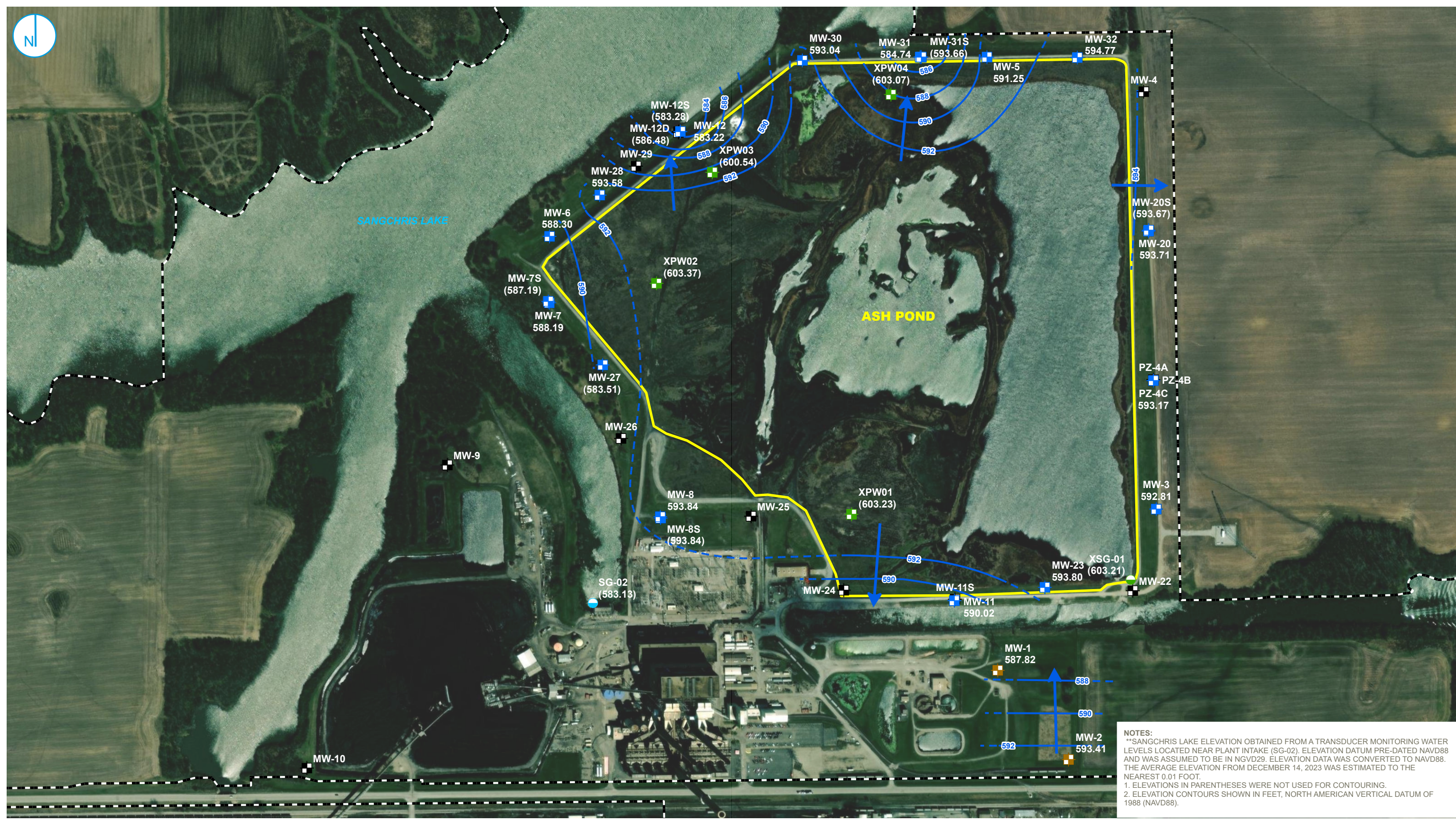
**POTENTIOMETRIC SURFACE MAP
 NOVEMBER 27, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND
 KINCAID POWER PLANT
 KINCAID, ILLINOIS**

FIGURE 11

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





NOTES:
 **SANGCHRIS LAKE ELEVATION OBTAINED FROM A TRANSDUCER MONITORING WATER LEVELS LOCATED NEAR PLANT INTAKE (SG-02). ELEVATION DATUM PRE-DATED NAVD88 AND WAS ASSUMED TO BE IN NGVD29. ELEVATION DATA WAS CONVERTED TO NAVD88. THE AVERAGE ELEVATION FROM DECEMBER 14, 2023 WAS ESTIMATED TO THE NEAREST 0.01 FOOT.
 1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 250 500 Feet

**POTENTIOMETRIC SURFACE MAP
 DECEMBER 14, 2023**

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 ASH POND**

KINCAID POWER PLANT
 KINCAID, ILLINOIS

FIGURE 12

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA**

**ATTACHMENT A
GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

KINCAID POWER PLANT

ASH POND

KINCAID, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
MW-1	Background	UA	04/12/2023	15.06	589.65
MW-1	Background	UA	05/12/2023	14.65	590.06
MW-1	Background	UA	06/12/2023	15.57	589.14
MW-1	Background	UA	07/05/2023	15.52	589.19
MW-1	Background	UA	08/05/2023	16.17	588.54
MW-1	Background	UA	09/05/2023	16.39	588.32
MW-1	Background	UA	10/23/2023	16.56	588.15
MW-1	Background	UA	11/27/2023	17.14	587.57
MW-1	Background	UA	12/14/2023	16.89	587.82
MW-2	Background	UA	06/12/2023	7.37	593.73
MW-2	Background	UA	08/05/2023	8.69	592.41
MW-2	Background	UA	09/05/2023	8.60	592.50
MW-2	Background	UA	10/23/2023	8.71	592.39
MW-2	Background	UA	11/27/2023	8.90	592.20
MW-2	Background	UA	12/14/2023	7.69	593.41
MW-3	Compliance	UA	04/12/2023	8.60	592.86
MW-3	Compliance	UA	05/12/2023	8.55	592.91
MW-3	Compliance	UA	06/12/2023	8.84	592.62
MW-3	Compliance	UA	07/05/2023	8.78	592.68
MW-3	Compliance	UA	08/05/2023	9.31	592.15
MW-3	Compliance	UA	09/05/2023	9.05	592.41
MW-3	Compliance	UA	10/23/2023	8.64	592.82
MW-3	Compliance	UA	11/27/2023	8.62	592.84
MW-3	Compliance	UA	12/14/2023	8.65	592.81
MW-5	Compliance	UA	06/12/2023	26.82	592.62
MW-5	Compliance	UA	08/05/2023	28.15	591.29
MW-5	Compliance	UA	09/05/2023	28.70	590.74
MW-5	Compliance	UA	10/23/2023	28.98	590.46
MW-5	Compliance	UA	11/27/2023	28.57	590.87
MW-5	Compliance	UA	12/14/2023	28.19	591.25
MW-6	Compliance	UA	06/12/2023	10.19	590.27
MW-6	Compliance	UA	08/05/2023	11.49	588.97
MW-6	Compliance	UA	09/05/2023	11.96	588.50
MW-6	Compliance	UA	10/23/2023	12.15	588.31
MW-6	Compliance	UA	11/27/2023	12.27	588.19
MW-6	Compliance	UA	12/14/2023	12.16	588.30
MW-7	Compliance	UA	04/12/2023	8.76	588.98
MW-7	Compliance	UA	05/12/2023	8.53	589.21
MW-7	Compliance	UA	06/12/2023	9.45	588.30
MW-7	Compliance	UA	07/05/2023	9.76	587.98
MW-7	Compliance	UA	08/05/2023	10.02	587.73
MW-7	Compliance	UA	09/05/2023	10.31	587.44
MW-7	Compliance	UA	10/23/2023	9.64	588.11
MW-7	Compliance	UA	11/27/2023	9.53	588.22
MW-7	Compliance	UA	12/14/2023	9.56	588.19
MW-7S	Compliance	USCU	06/12/2023	Dry	Dry

**ATTACHMENT A
GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

KINCAID POWER PLANT

ASH POND

KINCAID, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
MW-7S	Compliance	USCU	09/05/2023	10.36	587.28
MW-7S	Compliance	USCU	10/23/2023	9.20	588.44
MW-7S	Compliance	USCU	11/27/2023	Dry	Dry
MW-7S	Compliance	USCU	12/14/2023	10.45	587.19
MW-8	Compliance	UA	04/12/2023	8.92	594.21
MW-8	Compliance	UA	05/12/2023	8.39	594.74
MW-8	Compliance	UA	06/12/2023	9.75	593.39
MW-8	Compliance	UA	07/05/2023	9.11	594.03
MW-8	Compliance	UA	08/05/2023	9.75	593.38
MW-8	Compliance	UA	09/05/2023	9.78	593.36
MW-8	Compliance	UA	10/23/2023	9.70	593.44
MW-8	Compliance	UA	11/27/2023	9.67	593.47
MW-8	Compliance	UA	12/14/2023	9.30	593.84
MW-8S	Compliance	USCU	06/12/2023	Dry	Dry
MW-8S	Compliance	USCU	09/05/2023	Dry	Dry
MW-8S	Compliance	USCU	11/27/2023	Dry	Dry
MW-8S	Compliance	USCU	12/14/2023	9.46	593.84
MW-11	Compliance	UA	04/12/2023	12.04	589.77
MW-11	Compliance	UA	05/12/2023	11.99	589.81
MW-11	Compliance	UA	06/12/2023	11.73	590.08
MW-11	Compliance	UA	07/05/2023	11.87	589.93
MW-11	Compliance	UA	08/05/2023	11.69	590.11
MW-11	Compliance	UA	09/05/2023	11.79	590.02
MW-11	Compliance	UA	10/23/2023	11.79	590.02
MW-11	Compliance	UA	11/27/2023	11.74	590.07
MW-11	Compliance	UA	12/14/2023	11.79	590.02
MW-12	Compliance	UA	06/12/2023	6.99	584.41
MW-12	Compliance	UA	08/05/2023	7.13	584.26
MW-12	Compliance	UA	09/05/2023	7.46	583.94
MW-12	Compliance	UA	10/23/2023	7.96	583.44
MW-12	Compliance	UA	11/27/2023	7.22	584.18
MW-12	Compliance	UA	12/14/2023	8.18	583.22
MW-20	Compliance	UA	04/12/2023	5.85	594.92
MW-20	Compliance	UA	05/12/2023	5.66	595.10
MW-20	Compliance	UA	06/12/2023	6.40	594.37
MW-20	Compliance	UA	07/05/2023	6.90	593.86
MW-20	Compliance	UA	08/05/2023	8.50	592.26
MW-20	Compliance	UA	09/05/2023	9.72	591.05
MW-20	Compliance	UA	10/23/2023	8.96	591.81
MW-20	Compliance	UA	11/27/2023	8.20	592.57
MW-20	Compliance	UA	12/14/2023	7.06	593.71
MW-20S	Compliance	USCU	04/12/2023	8.68	591.95
MW-20S	Compliance	USCU	05/12/2023	8.33	592.30
MW-20S	Compliance	USCU	06/12/2023	6.38	594.26
MW-20S	Compliance	USCU	07/05/2023	9.13	591.51
MW-20S	Compliance	USCU	08/05/2023	10.67	589.97

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2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

KINCAID POWER PLANT

ASH POND

KINCAID, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
MW-20S	Compliance	USCU	09/05/2023	11.64	589.00
MW-20S	Compliance	USCU	10/23/2023	8.80	591.84
MW-20S	Compliance	USCU	11/27/2023	7.92	592.72
MW-20S	Compliance	USCU	12/14/2023	6.97	593.67
MW-23	Compliance	UA	04/12/2023	16.18	594.14
MW-23	Compliance	UA	05/12/2023	16.28	594.04
MW-23	Compliance	UA	06/12/2023	16.67	593.65
MW-23	Compliance	UA	07/05/2023	16.37	593.95
MW-23	Compliance	UA	08/05/2023	16.37	593.95
MW-23	Compliance	UA	09/05/2023	16.67	593.65
MW-23	Compliance	UA	10/23/2023	16.48	593.84
MW-23	Compliance	UA	11/27/2023	16.61	593.71
MW-23	Compliance	UA	12/14/2023	16.52	593.80
MW-27	Compliance	USCU	04/12/2023	10.66	589.39
MW-27	Compliance	USCU	05/12/2023	10.72	589.32
MW-27	Compliance	USCU	06/12/2023	14.45	585.60
MW-27	Compliance	USCU	07/05/2023	15.25	584.80
MW-27	Compliance	USCU	08/05/2023	16.44	583.60
MW-27	Compliance	USCU	09/05/2023	Dry	Dry
MW-27	Compliance	USCU	10/23/2023	17.14	582.91
MW-27	Compliance	USCU	11/27/2023	Dry	Dry
MW-27	Compliance	USCU	12/14/2023	16.54	583.51
MW-28	Compliance	UA	04/12/2023	6.35	595.05
MW-28	Compliance	UA	05/12/2023	6.14	595.25
MW-28	Compliance	UA	06/12/2023	7.42	593.98
MW-28	Compliance	UA	07/05/2023	7.83	593.57
MW-28	Compliance	UA	08/05/2023	8.05	593.34
MW-28	Compliance	UA	09/05/2023	8.17	593.23
MW-28	Compliance	UA	10/23/2023	8.19	593.21
MW-28	Compliance	UA	11/27/2023	8.15	593.25
MW-28	Compliance	UA	12/14/2023	7.82	593.58
MW-30	Compliance	UA	04/12/2023	24.13	594.34
MW-30	Compliance	UA	05/12/2023	23.87	594.60
MW-30	Compliance	UA	06/12/2023	25.20	593.27
MW-30	Compliance	UA	07/05/2023	24.77	593.70
MW-30	Compliance	UA	08/05/2023	24.86	593.61
MW-30	Compliance	UA	09/05/2023	25.45	593.02
MW-30	Compliance	UA	10/23/2023	25.54	592.93
MW-30	Compliance	UA	11/27/2023	25.50	592.97
MW-30	Compliance	UA	12/14/2023	25.43	593.04
MW-31	Compliance	UA	04/12/2023	29.65	587.69
MW-31	Compliance	UA	05/12/2023	29.33	588.01
MW-31	Compliance	UA	06/12/2023	31.22	586.12
MW-31	Compliance	UA	07/05/2023	30.71	586.63
MW-31	Compliance	UA	09/05/2023	32.72	584.62
MW-31	Compliance	UA	10/23/2023	33.10	584.24

**ATTACHMENT A
GROUNDWATER ELEVATION DATA**

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

KINCAID POWER PLANT

ASH POND

KINCAID, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
MW-31	Compliance	UA	11/27/2023	33.20	584.14
MW-31	Compliance	UA	12/14/2023	32.60	584.74
MW-31S	Compliance	USCU	04/12/2023	29.30	588.23
MW-31S	Compliance	USCU	05/12/2023	25.87	591.67
MW-31S	Compliance	USCU	06/12/2023	23.83	593.71
MW-31S	Compliance	USCU	07/05/2023	26.05	591.48
MW-31S	Compliance	USCU	08/05/2023	23.01	594.53
MW-31S	Compliance	USCU	09/05/2023	21.54	596.00
MW-31S	Compliance	USCU	10/23/2023	22.19	595.35
MW-31S	Compliance	USCU	11/27/2023	20.31	597.23
MW-31S	Compliance	USCU	12/14/2023	23.88	593.66
MW-32	Compliance	UA	06/12/2023	28.75	590.74
MW-32	Compliance	UA	08/05/2023	25.05	594.44
MW-32	Compliance	UA	09/05/2023	25.44	594.05
MW-32	Compliance	UA	10/23/2023	25.31	594.18
MW-32	Compliance	UA	11/27/2023	25.50	593.99
MW-32	Compliance	UA	12/14/2023	24.72	594.77
PZ-4C	Compliance	UA	04/12/2023	7.02	593.55
PZ-4C	Compliance	UA	05/12/2023	6.86	593.71
PZ-4C	Compliance	UA	06/12/2023	7.15	593.42
PZ-4C	Compliance	UA	07/05/2023	7.21	593.36
PZ-4C	Compliance	UA	08/05/2023	8.24	592.33
PZ-4C	Compliance	UA	09/05/2023	8.79	591.78
PZ-4C	Compliance	UA	10/23/2023	8.03	592.54
PZ-4C	Compliance	UA	11/27/2023	7.56	593.01
PZ-4C	Compliance	UA	12/14/2023	7.40	593.17
XSG-01	Water Level	CCR	06/12/2023	3.33	605.10
XSG-01	Water Level	CCR	09/05/2023	2.78	605.65
XSG-01	Water Level	CCR	10/23/2023	5.56	602.87
XSG-01	Water Level	CCR	11/27/2023	5.52	602.91
XSG-01	Water Level	CCR	12/14/2023	5.22	603.21
SG-02	Water Level	SW	04/12/2023	-20.39	585.19
SG-02	Water Level	SW	05/12/2023	-21.25	586.05
SG-02	Water Level	SW	06/12/2023	-20.21	585.01
SG-02	Water Level	SW	07/05/2023	-20.25	585.05
SG-02	Water Level	SW	08/05/2023	-19.57	584.37
SG-02	Water Level	SW	09/05/2023	-19.25	584.05
SG-02	Water Level	SW	10/23/2023	-18.48	583.28
SG-02	Water Level	SW	11/27/2023	-18.28	583.08
SG-02	Water Level	SW	12/14/2023	-18.33	583.13

Notes:

Due to malfunctioning pressure transducer, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter.

BMP = below measuring point

NAVD88 = North American Vertical Datum of 1988

Monitored Unit Abbreviations:

CCR = coal combustion residuals

SW = surface water

UA = uppermost aquifer

USCU = upper semi-confining unit

**ATTACHMENT B
CORRECTIVE MEASURES ASSESSMENT EXTENSION
REQUEST AND IEPA APPROVAL LETTER**



Kincaid Generation, LLC
199 IL 104
Kincaid, IL 62540

December 15, 2023

Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Re: Kincaid Ash Pond (IEPA ID: W0218140002-01), Corrective Measures Assessment Schedule Extension
Demonstration

Dear Mr. LeCrone:

In accordance with 35 I.A.C. § 845.660(a)(2), Kincaid Generation, LLC (KINCAID GENERATION) is submitting a schedule extension demonstration for completing the Corrective Measures Assessment (CMA) for the Ash Pond (IEPA ID: W0218140002-01) at the Kincaid Power Plant, as enclosed.

Sincerely,

A handwritten signature in blue ink, appearing to read "Phil Morris", is written over a light blue horizontal line.

Phil Morris, P.E.
Senior Director, Environmental Health and Safety

Enclosures

INTRODUCTION AND BACKGROUND

Exceedances of the groundwater protection standards (GWPS) listed in the Illinois Administrative Code (35 I.A.C.) §845.600 have been detected at the Ash Pond, Illinois Environmental Protection Agency [IEPA] Identification [ID]: W0218140002-01) at the Kincaid Power Plant (KPP). The GWPS exceedances are documented in the 2023 Quarter 2 groundwater monitoring report that was prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) and submitted to IEPA on September 15, 2023 [1].

In accordance with 35 I.A.C. § 845.660, Kincaid Generation, LLC (Kincaid Generation) initiated a Corrective Measures Assessment (CMA) on December 14, 2023, which was within 90 days of the exceedance detection. Upon reviewing site-specific conditions, circumstances, and information gathered to-date, Kincaid Generation has determined, in accordance with 35 I.A.C. § 845.660(a)(2), that an additional 60 days will be required to complete the CMA. This extension of the CMA deadline would result in the CMA for the AP being submitted to IEPA on or before May 12, 2024.

DEMONSTRATION

As discussed below, there are four site-specific conditions or circumstances at the AP that justify the need for a 60-day extension of the default CMA deadline.

Circumstance 1: Ongoing Fieldwork and Additional Data Collection

Kincaid Generation is in the process of performing ongoing additional fieldwork and data collection activities for the Ash Pond. These activities, which require additional time to complete and incorporate into the CMA, include:

- The reliability of monitored natural attenuation (MNA) to attain GWPS is currently under evaluation. Kincaid Generation is in the process of evaluating the results of additional recent fieldwork and data collection associated with the evaluation of MNA as a corrective measure for the Ash Pond. The fieldwork included new soil borings, collection of soil samples, and geochemical testing. The results of this fieldwork and data collection will be utilized to evaluate the reliability, including the potential for reversibility, of MNA relative to other types of corrective measures.
- The nature and extent of contamination around the Ash Pond is currently under evaluation. Kincaid Generation is in the planning process of installing additional monitoring wells to further define the nature and extent of exceedances around the AP. The results of additional groundwater data collection will be utilized to further evaluate the ability of corrective measures to address the refined nature and extent of groundwater impacts.

Circumstance 2: Physical Size of the Ash Pond, Potential Conflicts with Closure, and Adjacent Water Bodies

The evaluation of performance and reliability of corrective measures for the Ash Pond will be complicated by physical challenges and constraints that may impact effective implementation of corrective measures at the site. These challenges include, but are not limited to:

- The Ash Pond has a total surface area of nearly 172 acres [2] and a perimeter length of approximately 10,700 feet.
- Closure of the Ash Pond, in accordance with the closure plan and construction permit application submitted to IEPA on July 28, 2022 [2], will be a large-scale construction project.
 - Closure will include a consolidate-and-cap approach where coal combustion residuals (CCRs) are removed from an 88-acre area inside the AP and consolidated into an 84-acre area [2].
 - Closure will involve moving approximately 1.9 million cubic yards of CCR and subgrade soils over a period approximately 20-26 months [ref].

- Two sets of high-voltage electrical transmission lines cross the Ash Pond. These lines are part of the regional power grid and will need to remain functional after closure of the PAP. At this time, it is not known if the power lines will be raised, relocated, or otherwise modified to allow for closure construction [2].
- Areas adjacent to the Ash Pond are located within the 100-year and 500-year floodplains of Sangchris Lake per Federal Emergency Management Agency (FEMA) floodplain mapping for the site [3].
- The Ash Pond is also located adjacent to Sangchris Lake itself, which is a popular local fishing and recreational lake [4].

These factors will require substantial additional effort to evaluate the physical location and dimensions of any proposed corrective action which considers the size of the Ash Pond and limits impacts to proposed closure construction, existing high-voltage power lines, adjacent floodplains, and adjacent environmentally sensitive water bodies.

Circumstance 3: Future Solar Development

The ease of implementation and time required to begin and complete corrective action at the Ash Pond may be affected by potential future solar development at the site. Kincaid Generation is in the planning stages for potential future development of a solar facility over the closed-in-place Ash Pond which could provide renewable, low-carbon energy to Illinois while repurposing the Ash Pond into productive land use. Additional time is required to evaluate potential conflicts between the future solar development that is being considered and potential corrective measures.

REFERENCES

- [1] Ramboll Americas Engineering Solutions, Inc., "35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 2, Ash Pond, Kincaid Power Plant," September 15, 2023.
- [2] Burns & McDonnell, "Construction Permit Application, Kincaid Power Plant, Ash Pond (IEPA ID W0218140002-01), Kincaid, Illinois," July 28, 2022.
- [3] National Flood Insurance Program, "Flood Insurance Rate Map, Christian County, Illinois and Incorporated Areas, Map No. 17021C0250D," Federal Emergency Management Area, June 16, 2011.
- [4] Illinois Department of Natural Resources, "Lake Profile - SANGCHRIS, LAKE," [Online]. Available: <https://www.ifishillinois.org/profiles/waterbody.php?waternum=00168>. [Accessed 2023].

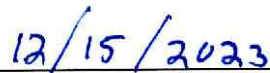
CERTIFICATION STATEMENT

CCR Unit: Kincaid Generation, LLC; Kincaid Power Plant, Ash Pond
IEPA ID: W0218140002-01

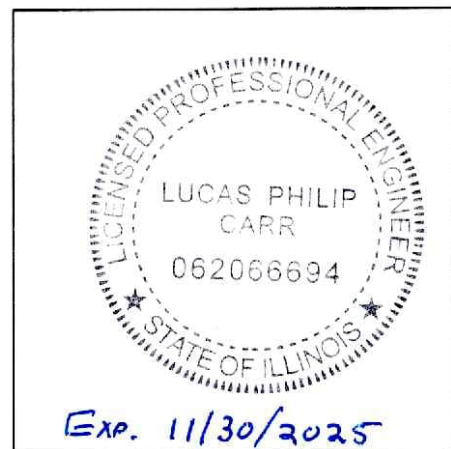
I, Lucas P. Carr, being a Registered Professional Engineer in good standing with the state of Illinois, do hereby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR unit, that the 60-day extension demonstration for the Corrective Measures Assessment has been prepared in accordance with 35 I.A.C. § 845.600(a)(2) and is accurate.



Lucas P. Carr, P.E.
Senior Managing Consultant



Date





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217-782-1020

January 17, 2024

Brain Voelker
Kincaid Generation, LLC
1500 Eastport Plaza Drive
Collinsville, Illinois 62234

Re: Kincaid Ash Pond (W0218140002-01)
Corrective Measures Assessment Schedule Extension Request

Dear Mr. Voelker:

The purpose of this correspondence is to notify you that the Illinois Environmental Protection Agency (Illinois EPA) approves of the extension request submitted on December 15, 2023, for completing the Corrective Measures Assessment (CMA).

If you have any questions, please contact: **Justin Bierwagen** Illinois EPA, Bureau of Water, PWS #13, P.O. Box 19276, Springfield, Illinois 62794-9276. If you have any questions concerning the extension approval described above, please call 217-782-1020.

Sincerely,

A handwritten signature in blue ink, appearing to read "D. LeCrone".

Darin E. LeCrone, P.E.
Manager, Permit Section
Division of Water Pollution Control
Illinois Environmental Protection Agency

cc: Justin Bierwagen
Mark Liska
Phil Morris
Records Files 06M – W0218140002

ATTACHMENT C COMPARISON OF STATISTICAL RESULTS TO BACKGROUND

- **ATTACHMENT B FROM THE QUARTER 2, 2023
GROUNDWATER MONITORING DATA AND DETECTED
EXCEEDANCES REPORT (RAMBOLL, 2023a)**
- **ATTACHMENT B FROM THE QUARTER 3, 2023
GROUNDWATER MONITORING DATA AND DETECTED
EXCEEDANCES REPORT (RAMBOLL, 2023b)**

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-3	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.001	0.001
MW-3	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.01	0.0048
MW-3	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	24	0	CI around median	0.0461	0.15
MW-3	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0005	0.001
MW-3	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	24	0	CI around median	1.57	0.296
MW-3	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.002	0.001
MW-3	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	24	0	CI around mean	30.7	18
MW-3	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	24	97	CB around T-S line	0.0015	0.0095
MW-3	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	24	90	CI around median	0.001	0.0039
MW-3	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	24	0	CI around mean	0.242	0.51
MW-3	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0075	0.0051
MW-3	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.003	0.012
MW-3	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.0002	0.0002
MW-3	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.01	0.0062
MW-3	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	24	0	CB around linear reg	6.4/6.7	5.6/7.6
MW-3	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/06/17 - 06/13/23	20	0	CI around median	0.195	1
MW-3	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	24	100	All ND - Last	0.001	0.0018
MW-3	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	24	0	CB around linear reg	114	151
MW-3	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	24	97	CB around T-S line	0.002	0.002
MW-3	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	24	0	CB around linear reg	539	494
MW-5	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.001	0.001
MW-5	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	28	91	CI around median	0.001	0.0048
MW-5	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.142	0.15
MW-5	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.0005	0.001
MW-5	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.529	0.296
MW-5	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.001
MW-5	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	45.1	18

ATTACHMENT B.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-5	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	28	97	CB around T-S line	0.0015	0.0095
MW-5	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	28	91	CI around median	0.001	0.0039
MW-5	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	28	3	CB around T-S line	0.16	0.51
MW-5	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	28	97	CI around median	0.001	0.0051
MW-5	UA	E001	Lithium, total	mg/L	12/15/15 - 06/13/23	20	30	CB around linear reg	0.0029	0.012
MW-5	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.0002	0.0002
MW-5	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/13/23	20	100	All ND - Last	0.01	0.0062
MW-5	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	28	0	CB around linear reg	6.3/6.7	5.6/7.6
MW-5	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/13/23	29	0	CI around median	0.265	1
MW-5	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.001	0.0018
MW-5	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	28	36	CI around median	10	151
MW-5	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	25	97	CB around T-S line	0.0018	0.002
MW-5	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	672	494
MW-6	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.001	0.001
MW-6	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.01	0.0048
MW-6	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.0338	0.15
MW-6	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.0005	0.001
MW-6	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	0.94	0.296
MW-6	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.001
MW-6	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	28	54	CB around T-S line	2.18	18
MW-6	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	28	91	CB around T-S line	0.00149	0.0095
MW-6	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.001	0.0039
MW-6	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	0.19	0.51
MW-6	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.0075	0.0051
MW-6	UA	E001	Lithium, total	mg/L	12/15/15 - 06/13/23	20	85	CB around T-S line	0.00223	0.012
MW-6	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.0002	0.0002
MW-6	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/13/23	20	100	All ND - Last	0.01	0.0062

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-6	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	28	0	CI around mean	6.5/6.7	5.6/7.6
MW-6	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/13/23	29	0	CI around median	0.35	1
MW-6	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	28	94	CI around median	0.001	0.0018
MW-6	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	49.7	151
MW-6	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.002
MW-6	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	350	494
MW-7	UA	E001	Antimony, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.001	0.001
MW-7	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/12/23	28	76	CI around median	0.001	0.0048
MW-7	UA	E001	Barium, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.0472	0.15
MW-7	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.0005	0.001
MW-7	UA	E001	Boron, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.206	0.296
MW-7	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.001
MW-7	UA	E001	Chloride, total	mg/L	12/15/15 - 06/12/23	28	79	CB around T-S line	2.19	18
MW-7	UA	E001	Chromium, total	mg/L	12/15/15 - 06/12/23	28	94	CB around T-S line	0.0015	0.0095
MW-7	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/12/23	28	88	CI around median	0.001	0.0039
MW-7	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.251	0.51
MW-7	UA	E001	Lead, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.0075	0.0051
MW-7	UA	E001	Lithium, total	mg/L	12/15/15 - 06/12/23	20	30	CI around mean	0.00265	0.012
MW-7	UA	E001	Mercury, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.0002	0.0002
MW-7	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/12/23	20	5	CI around mean	0.00258	0.0062
MW-7	UA	E001	pH (field)	SU	12/15/15 - 06/12/23	28	0	CI around mean	7.0/7.1	5.6/7.6
MW-7	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/12/23	29	0	CI around geomean	0.442	1
MW-7	UA	E001	Selenium, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.001	0.0018
MW-7	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/12/23	28	0	CI around geomean	169	151
MW-7	UA	E001	Thallium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.002
MW-7	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	556	494
MW-8	UA	E001	Antimony, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.001	0.001

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-8	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.01	0.0048
MW-8	UA	E001	Barium, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	0.0193	0.15
MW-8	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.0005	0.001
MW-8	UA	E001	Boron, total	mg/L	12/15/15 - 06/12/23	28	0	CI around geomean	0.954	0.296
MW-8	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.001
MW-8	UA	E001	Chloride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	14.3	18
MW-8	UA	E001	Chromium, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.005	0.0095
MW-8	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/12/23	28	30	CB around linear reg	0.000827	0.0039
MW-8	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	0.222	0.51
MW-8	UA	E001	Lead, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.0075	0.0051
MW-8	UA	E001	Lithium, total	mg/L	12/15/15 - 06/12/23	20	45	CB around linear reg	0.00293	0.012
MW-8	UA	E001	Mercury, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.0002	0.0002
MW-8	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/12/23	20	100	All ND - Last	0.01	0.0062
MW-8	UA	E001	pH (field)	SU	12/15/15 - 06/12/23	28	0	CI around mean	6.6/6.7	5.6/7.6
MW-8	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/12/23	29	0	CI around median	0.2	1
MW-8	UA	E001	Selenium, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.001	0.0018
MW-8	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	225	151
MW-8	UA	E001	Thallium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.002
MW-8	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	762	494
MW-11	UA	E001	Antimony, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.001	0.001
MW-11	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/12/23	28	21	CI around median	0.0012	0.0048
MW-11	UA	E001	Barium, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.129	0.15
MW-11	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/12/23	26	100	All ND - Last	0.0005	0.001
MW-11	UA	E001	Boron, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	1.55	0.296
MW-11	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.001
MW-11	UA	E001	Chloride, total	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	30.1	18
MW-11	UA	E001	Chromium, total	mg/L	12/15/15 - 06/12/23	28	96	CB around T-S line	0.00147	0.0095

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MW-11	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/12/23	28	93	CI around median	0.001	0.0039
MW-11	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	0.492	0.51
MW-11	UA	E001	Lead, total	mg/L	12/15/15 - 06/12/23	28	100	All ND - Last	0.0075	0.0051
MW-11	UA	E001	Lithium, total	mg/L	12/15/15 - 06/12/23	20	40	CB around linear reg	0.00277	0.012
MW-11	UA	E001	Mercury, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.0002	0.0002
MW-11	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/12/23	20	5	CI around median	0.0021	0.0062
MW-11	UA	E001	pH (field)	SU	12/15/15 - 06/12/23	28	0	CB around linear reg	6.5/6.8	5.6/7.6
MW-11	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/12/23	29	0	CI around mean	0.531	1
MW-11	UA	E001	Selenium, total	mg/L	12/15/15 - 06/12/23	28	61	CI around median	0.001	0.0018
MW-11	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/12/23	28	0	CI around mean	107	151
MW-11	UA	E001	Thallium, total	mg/L	12/15/15 - 06/12/23	25	100	All ND - Last	0.002	0.002
MW-11	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/12/23	28	0	CB around linear reg	579	494
MW-12	UA	E001	Antimony, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.001	0.001
MW-12	UA	E001	Arsenic, total	mg/L	12/15/15 - 06/13/23	28	96	CI around median	0.001	0.0048
MW-12	UA	E001	Barium, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	0.0531	0.15
MW-12	UA	E001	Beryllium, total	mg/L	12/15/15 - 06/13/23	26	100	All ND - Last	0.0005	0.001
MW-12	UA	E001	Boron, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	2.64	0.296
MW-12	UA	E001	Cadmium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.001
MW-12	UA	E001	Chloride, total	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	18.5	18
MW-12	UA	E001	Chromium, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.005	0.0095
MW-12	UA	E001	Cobalt, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.001	0.0039
MW-12	UA	E001	Fluoride, total	mg/L	12/15/15 - 06/13/23	28	0	CI around median	0.18	0.51
MW-12	UA	E001	Lead, total	mg/L	12/15/15 - 06/13/23	28	100	All ND - Last	0.0075	0.0051
MW-12	UA	E001	Lithium, total	mg/L	12/15/15 - 06/13/23	20	0	CI around mean	0.00832	0.012
MW-12	UA	E001	Mercury, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.0002	0.0002
MW-12	UA	E001	Molybdenum, total	mg/L	12/15/15 - 06/13/23	20	90	CB around T-S line	0.00127	0.0062
MW-12	UA	E001	pH (field)	SU	12/15/15 - 06/13/23	28	0	CB around linear reg	6.4/6.7	5.6/7.6

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MW-12	UA	E001	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 06/13/23	29	0	CI around median	0.429	1
MW-12	UA	E001	Selenium, total	mg/L	12/15/15 - 06/13/23	28	96	CI around median	0.001	0.0018
MW-12	UA	E001	Sulfate, total	mg/L	12/15/15 - 06/13/23	28	0	CI around mean	363	151
MW-12	UA	E001	Thallium, total	mg/L	12/15/15 - 06/13/23	25	100	All ND - Last	0.002	0.002
MW-12	UA	E001	Total Dissolved Solids	mg/L	12/15/15 - 06/13/23	28	0	CB around linear reg	981	494
MW-20	UA	E001	Antimony, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-20	UA	E001	Arsenic, total	mg/L	02/26/21 - 06/13/23	10	40	CI around median	0.001	0.0048
MW-20	UA	E001	Barium, total	mg/L	02/26/21 - 06/13/23	10	0	CI around mean	0.103	0.15
MW-20	UA	E001	Beryllium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-20	UA	E001	Boron, total	mg/L	02/26/21 - 06/13/23	10	0	CB around linear reg	0.455	0.296
MW-20	UA	E001	Cadmium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-20	UA	E001	Chloride, total	mg/L	02/26/21 - 06/13/23	10	0	CI around mean	23	18
MW-20	UA	E001	Chromium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.005	0.0095
MW-20	UA	E001	Cobalt, total	mg/L	02/26/21 - 06/13/23	10	90	CI around median	0.001	0.0039
MW-20	UA	E001	Fluoride, total	mg/L	02/26/21 - 06/13/23	10	0	CB around linear reg	0.306	0.51
MW-20	UA	E001	Lead, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-20	UA	E001	Lithium, total	mg/L	02/26/21 - 06/13/23	10	0	CB around linear reg	-0.00639	0.012
MW-20	UA	E001	Mercury, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-20	UA	E001	Molybdenum, total	mg/L	02/26/21 - 06/13/23	10	10	CB around linear reg	-0.00255	0.0062
MW-20	UA	E001	pH (field)	SU	02/26/21 - 06/13/23	10	0	CI around mean	6.8/7.1	5.6/7.6
MW-20	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 06/13/23	10	0	CI around mean	0.164	1
MW-20	UA	E001	Selenium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-20	UA	E001	Sulfate, total	mg/L	02/26/21 - 06/13/23	10	0	CB around linear reg	174	151
MW-20	UA	E001	Thallium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-20	UA	E001	Total Dissolved Solids	mg/L	02/26/21 - 06/13/23	9	0	CB around linear reg	621	494
MW-20S	USCU	E001	Antimony, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-20S	USCU	E001	Arsenic, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.01	0.0048

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-20S	USCU	E001	Barium, total	mg/L	02/26/21 - 06/13/23	10	10	CI around median	0.0352	0.15
MW-20S	USCU	E001	Beryllium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-20S	USCU	E001	Boron, total	mg/L	02/26/21 - 06/13/23	10	0	CB around T-S line	1.6	0.296
MW-20S	USCU	E001	Cadmium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-20S	USCU	E001	Chloride, total	mg/L	02/26/21 - 06/13/23	10	0	CI around mean	17	18
MW-20S	USCU	E001	Chromium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.005	0.0095
MW-20S	USCU	E001	Cobalt, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.001	0.0039
MW-20S	USCU	E001	Fluoride, total	mg/L	02/26/21 - 06/13/23	10	0	CI around mean	0.176	0.51
MW-20S	USCU	E001	Lead, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-20S	USCU	E001	Lithium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.003	0.012
MW-20S	USCU	E001	Mercury, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-20S	USCU	E001	Molybdenum, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.01	0.0062
MW-20S	USCU	E001	pH (field)	SU	02/26/21 - 06/13/23	10	0	CI around mean	6.4/6.8	5.6/7.6
MW-20S	USCU	E001	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 06/13/23	10	0	CI around mean	0.0448	1
MW-20S	USCU	E001	Selenium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-20S	USCU	E001	Sulfate, total	mg/L	02/26/21 - 06/13/23	10	0	CB around linear reg	404	151
MW-20S	USCU	E001	Thallium, total	mg/L	02/26/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-20S	USCU	E001	Total Dissolved Solids	mg/L	02/26/21 - 06/13/23	9	0	CB around linear reg	1,100	494
MW-23	UA	E001	Antimony, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.001	0.001
MW-23	UA	E001	Arsenic, total	mg/L	02/26/21 - 06/12/23	10	60	CI around median	0.001	0.0048
MW-23	UA	E001	Barium, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	0.0784	0.15
MW-23	UA	E001	Beryllium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.0005	0.001
MW-23	UA	E001	Boron, total	mg/L	02/26/21 - 06/12/23	10	0	CI around median	1.91	0.296
MW-23	UA	E001	Cadmium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.002	0.001
MW-23	UA	E001	Chloride, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	29	18
MW-23	UA	E001	Chromium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.005	0.0095
MW-23	UA	E001	Cobalt, total	mg/L	02/26/21 - 06/12/23	10	30	CI around median	0.001	0.0039

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023

845 QUARTERLY REPORT
 KINCAID POWER PLANT
 ASH POND
 KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-23	UA	E001	Fluoride, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	0.341	0.51
MW-23	UA	E001	Lead, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.0075	0.0051
MW-23	UA	E001	Lithium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.003	0.012
MW-23	UA	E001	Mercury, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.0002	0.0002
MW-23	UA	E001	Molybdenum, total	mg/L	02/26/21 - 06/12/23	10	90	CI around median	0.0015	0.0062
MW-23	UA	E001	pH (field)	SU	02/26/21 - 06/12/23	10	0	CI around mean	6.5/6.8	5.6/7.6
MW-23	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 06/12/23	10	0	CI around mean	0.14	1
MW-23	UA	E001	Selenium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.001	0.0018
MW-23	UA	E001	Sulfate, total	mg/L	02/26/21 - 06/12/23	10	0	CI around mean	42.3	151
MW-23	UA	E001	Thallium, total	mg/L	02/26/21 - 06/12/23	10	100	All ND - Last	0.002	0.002
MW-23	UA	E001	Total Dissolved Solids	mg/L	02/26/21 - 06/12/23	9	0	CI around mean	575	494
MW-27	USCU	E001	pH (field)	SU	02/24/21 - 06/12/23	10	0	CI around mean	6.6/6.9	5.6/7.6
MW-28	UA	E001	Antimony, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-28	UA	E001	Arsenic, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.01	0.0048
MW-28	UA	E001	Barium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.0214	0.15
MW-28	UA	E001	Beryllium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-28	UA	E001	Boron, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	8.58	0.296
MW-28	UA	E001	Cadmium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-28	UA	E001	Chloride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	12.4	18
MW-28	UA	E001	Chromium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.005	0.0095
MW-28	UA	E001	Cobalt, total	mg/L	02/24/21 - 06/13/23	10	80	CI around median	0.001	0.0039
MW-28	UA	E001	Fluoride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around median	0.12	0.51
MW-28	UA	E001	Lead, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-28	UA	E001	Lithium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.00596	0.012
MW-28	UA	E001	Mercury, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-28	UA	E001	Molybdenum, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.01	0.0062
MW-28	UA	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.5/6.9	5.6/7.6

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-28	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 06/13/23	10	0	CI around mean	0.0382	1
MW-28	UA	E001	Selenium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-28	UA	E001	Sulfate, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	808	151
MW-28	UA	E001	Thallium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-28	UA	E001	Total Dissolved Solids	mg/L	02/24/21 - 06/13/23	9	0	CI around mean	1,610	494
MW-30	UA	E001	Antimony, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-30	UA	E001	Arsenic, total	mg/L	02/25/21 - 06/13/23	10	10	CB around linear reg	-0.00022	0.0048
MW-30	UA	E001	Barium, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.15	0.15
MW-30	UA	E001	Beryllium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-30	UA	E001	Boron, total	mg/L	02/25/21 - 06/13/23	10	0	CI around geomean	1.08	0.296
MW-30	UA	E001	Cadmium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-30	UA	E001	Chloride, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	47.9	18
MW-30	UA	E001	Chromium, total	mg/L	02/25/21 - 06/13/23	10	70	CI around median	0.0015	0.0095
MW-30	UA	E001	Cobalt, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.00202	0.0039
MW-30	UA	E001	Fluoride, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	0.248	0.51
MW-30	UA	E001	Lead, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-30	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	80	CB around T-S line	-0.0119	0.012
MW-30	UA	E001	Mercury, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-30	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	40	CI around geomean	0.00148	0.0062
MW-30	UA	E001	pH (field)	SU	02/25/21 - 06/13/23	10	0	CI around mean	6.4/6.6	5.6/7.6
MW-30	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 06/13/23	10	0	CI around geomean	0.536	1
MW-30	UA	E001	Selenium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-30	UA	E001	Sulfate, total	mg/L	02/25/21 - 06/13/23	10	20	CB around linear reg	-54.3	151
MW-30	UA	E001	Thallium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-30	UA	E001	Total Dissolved Solids	mg/L	02/25/21 - 06/13/23	9	0	CI around median	642	494
MW-31	UA	E001	Antimony, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-31	UA	E001	Arsenic, total	mg/L	02/24/21 - 06/13/23	10	10	CI around mean	0.00237	0.0048

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-31	UA	E001	Barium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.217	0.15
MW-31	UA	E001	Beryllium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-31	UA	E001	Boron, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.246	0.296
MW-31	UA	E001	Cadmium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-31	UA	E001	Chloride, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	48.1	18
MW-31	UA	E001	Chromium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.005	0.0095
MW-31	UA	E001	Cobalt, total	mg/L	02/24/21 - 06/13/23	10	80	CI around median	0.001	0.0039
MW-31	UA	E001	Fluoride, total	mg/L	02/24/21 - 06/13/23	10	0	CB around linear reg	0.131	0.51
MW-31	UA	E001	Lead, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-31	UA	E001	Lithium, total	mg/L	02/24/21 - 06/13/23	10	0	CI around mean	0.00488	0.012
MW-31	UA	E001	Mercury, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-31	UA	E001	Molybdenum, total	mg/L	02/24/21 - 06/13/23	10	40	CI around median	0.0015	0.0062
MW-31	UA	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.4/6.7	5.6/7.6
MW-31	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 06/13/23	10	0	CI around mean	0.491	1
MW-31	UA	E001	Selenium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-31	UA	E001	Sulfate, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	10	151
MW-31	UA	E001	Thallium, total	mg/L	02/24/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-31	UA	E001	Total Dissolved Solids	mg/L	02/24/21 - 06/13/23	9	0	CI around mean	574	494
MW-31S	USCU	E001	pH (field)	SU	02/24/21 - 06/13/23	10	0	CI around mean	6.4/6.7	5.6/7.6
MW-32	UA	E001	Antimony, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
MW-32	UA	E001	Arsenic, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.0048
MW-32	UA	E001	Barium, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	0.0257	0.15
MW-32	UA	E001	Beryllium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0005	0.001
MW-32	UA	E001	Boron, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	1.5	0.296
MW-32	UA	E001	Cadmium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.001
MW-32	UA	E001	Chloride, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	10.1	18
MW-32	UA	E001	Chromium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.005	0.0095

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-32	UA	E001	Cobalt, total	mg/L	02/25/21 - 06/13/23	10	70	CI around median	0.001	0.0039
MW-32	UA	E001	Fluoride, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.17	0.51
MW-32	UA	E001	Lead, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0075	0.0051
MW-32	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.003	0.012
MW-32	UA	E001	Mercury, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
MW-32	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.01	0.0062
MW-32	UA	E001	pH (field)	SU	02/25/21 - 06/13/23	10	0	CI around mean	6.2/6.5	5.6/7.6
MW-32	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 06/13/23	10	0	CI around median	0	1
MW-32	UA	E001	Selenium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
MW-32	UA	E001	Sulfate, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	429	151
MW-32	UA	E001	Thallium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
MW-32	UA	E001	Total Dissolved Solids	mg/L	02/25/21 - 06/13/23	9	0	CI around median	1,100	494
PZ-4C	UA	E001	Antimony, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
PZ-4C	UA	E001	Arsenic, total	mg/L	02/25/21 - 06/13/23	10	50	CB around T-S line	0.001	0.0048
PZ-4C	UA	E001	Barium, total	mg/L	02/25/21 - 06/13/23	10	0	CB around T-S line	0.274	0.15
PZ-4C	UA	E001	Beryllium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.001
PZ-4C	UA	E001	Boron, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	1.34	0.296
PZ-4C	UA	E001	Cadmium, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.001	0.001
PZ-4C	UA	E001	Chloride, total	mg/L	02/25/21 - 06/13/23	10	0	CB around linear reg	30.3	18
PZ-4C	UA	E001	Chromium, total	mg/L	02/25/21 - 06/13/23	10	40	CI around median	0.0015	0.0095
PZ-4C	UA	E001	Cobalt, total	mg/L	02/25/21 - 06/13/23	10	70	CI around median	0.001	0.0039
PZ-4C	UA	E001	Fluoride, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	0.388	0.51
PZ-4C	UA	E001	Lead, total	mg/L	02/25/21 - 06/13/23	10	50	CB around T-S line	0.001	0.0051
PZ-4C	UA	E001	Lithium, total	mg/L	02/25/21 - 06/13/23	10	0	CI around median	0.0067	0.012
PZ-4C	UA	E001	Mercury, total	mg/L	02/25/21 - 06/13/23	10	90	CI around median	0.0002	0.0002
PZ-4C	UA	E001	Molybdenum, total	mg/L	02/25/21 - 06/13/23	10	80	CI around median	0.0015	0.0062
PZ-4C	UA	E001	pH (field)	SU	02/25/21 - 06/13/23	10	0	CI around mean	6.5/7.1	5.6/7.6

**ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023**

845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
PZ-4C	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 06/13/23	10	0	CI around geomean	0.439	1
PZ-4C	UA	E001	Selenium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.001	0.0018
PZ-4C	UA	E001	Sulfate, total	mg/L	02/25/21 - 06/13/23	10	0	CI around mean	65.8	151
PZ-4C	UA	E001	Thallium, total	mg/L	02/25/21 - 06/13/23	10	100	All ND - Last	0.002	0.002
PZ-4C	UA	E001	Total Dissolved Solids	mg/L	02/25/21 - 06/13/23	9	0	CI around median	546	494

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

USCU = Upper Semi-Confining Unit

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

For pH, the values presented are the lower / upper limits of the background determination

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-3	UA	E002	Antimony, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.001
MW-3	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.00480
MW-3	UA	E002	Barium, total	mg/L	12/15/15 - 09/05/23	25	0	CI around median	0.0453	0.150
MW-3	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.001
MW-3	UA	E002	Boron, total	mg/L	12/15/15 - 09/05/23	25	0	CI around median	1.57	0.296
MW-3	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.001
MW-3	UA	E002	Chloride, total	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	27.6	18.0
MW-3	UA	E002	Chromium, total	mg/L	12/15/15 - 09/05/23	25	97	CB around T-S line	0.0015	0.00950
MW-3	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/05/23	25	90	CI around median	0.001	0.00390
MW-3	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/05/23	25	0	CI around mean	0.243	0.510
MW-3	UA	E002	Lead, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.00510
MW-3	UA	E002	Lithium, total	mg/L	02/25/21 - 09/05/23	11	91	CI around median	0.003	0.0120
MW-3	UA	E002	Mercury, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.0002	0.0002
MW-3	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/05/23	11	100	All ND - Last	0.0015	0.00620
MW-3	UA	E002	pH (field)	SU	12/15/15 - 09/05/23	25	0	CB around linear reg	6.4/6.7	5.6/7.6
MW-3	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/06/17 - 09/05/23	21	0	CI around median	0.271	1.00
MW-3	UA	E002	Selenium, total	mg/L	12/15/15 - 09/05/23	25	100	All ND - Last	0.001	0.00180
MW-3	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	112	151
MW-3	UA	E002	Thallium, total	mg/L	12/15/15 - 09/05/23	25	97	CB around T-S line	0.002	0.002
MW-3	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/05/23	25	0	CB around linear reg	540	494
MW-5	UA	E002	Antimony, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.001
MW-5	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/06/23	29	91	CI around median	0.001	0.00480
MW-5	UA	E002	Barium, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.142	0.150
MW-5	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.001
MW-5	UA	E002	Boron, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.531	0.296
MW-5	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.001	0.001
MW-5	UA	E002	Chloride, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	44.9	18.0

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-5	UA	E002	Chromium, total	mg/L	12/15/15 - 09/06/23	29	97	CB around T-S line	0.0015	0.00950
MW-5	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/06/23	29	91	CI around median	0.001	0.00390
MW-5	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/06/23	29	3	CB around T-S line	0.16	0.510
MW-5	UA	E002	Lead, total	mg/L	12/15/15 - 09/06/23	29	97	CI around median	0.001	0.00510
MW-5	UA	E002	Lithium, total	mg/L	12/15/15 - 09/06/23	21	33	CI around mean	0.00269	0.0120
MW-5	UA	E002	Mercury, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.0002	0.0002
MW-5	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/06/23	21	100	All ND - Last	0.0015	0.00620
MW-5	UA	E002	pH (field)	SU	12/15/15 - 09/06/23	29	0	CB around linear reg	6.4/6.7	5.6/7.6
MW-5	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/06/23	30	0	CI around median	0.265	1.00
MW-5	UA	E002	Selenium, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.00180
MW-5	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/06/23	29	35	CI around median	10	151
MW-5	UA	E002	Thallium, total	mg/L	12/15/15 - 09/06/23	26	97	CB around T-S line	0.00183	0.002
MW-5	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	679	494
MW-6	UA	E002	Antimony, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.001
MW-6	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.00480
MW-6	UA	E002	Barium, total	mg/L	12/15/15 - 09/06/23	29	0	CB around T-S line	0.0362	0.150
MW-6	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/06/23	27	100	All ND - Last	0.001	0.001
MW-6	UA	E002	Boron, total	mg/L	12/15/15 - 09/06/23	29	0	CI around mean	0.956	0.296
MW-6	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.001	0.001
MW-6	UA	E002	Chloride, total	mg/L	12/15/15 - 09/06/23	29	53	CB around T-S line	2.03	18.0
MW-6	UA	E002	Chromium, total	mg/L	12/15/15 - 09/06/23	29	88	CB around T-S line	0.0015	0.00950
MW-6	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.00390
MW-6	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	0.194	0.510
MW-6	UA	E002	Lead, total	mg/L	12/15/15 - 09/06/23	29	100	All ND - Last	0.001	0.00510
MW-6	UA	E002	Lithium, total	mg/L	12/15/15 - 09/06/23	21	86	CB around T-S line	0.00266	0.0120
MW-6	UA	E002	Mercury, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.0002	0.0002
MW-6	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/06/23	21	100	All ND - Last	0.0015	0.00620

ATTACHMENT B.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-6	UA	E002	pH (field)	SU	12/15/15 - 09/06/23	29	0	CI around mean	6.5/6.7	5.6/7.6
MW-6	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/06/23	30	0	CI around median	0.35	1.00
MW-6	UA	E002	Selenium, total	mg/L	12/15/15 - 09/06/23	29	94	CI around median	0.001	0.00180
MW-6	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	55.3	151
MW-6	UA	E002	Thallium, total	mg/L	12/15/15 - 09/06/23	26	100	All ND - Last	0.002	0.002
MW-6	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/06/23	29	0	CB around linear reg	366	494
MW-7	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001
MW-7	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	76	CI around median	0.001	0.00480
MW-7	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.03	0.150
MW-7	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001
MW-7	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	0.213	0.296
MW-7	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.001
MW-7	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	76	CB around T-S line	2.47	18.0
MW-7	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	94	CB around T-S line	0.0015	0.00950
MW-7	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	88	CI around median	0.001	0.00390
MW-7	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	0.253	0.510
MW-7	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00510
MW-7	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	33	CI around geomean	0.00263	0.0120
MW-7	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.0002
MW-7	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	5	CI around mean	0.00262	0.00620
MW-7	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CB around linear reg	6.7/7.1	5.6/7.6
MW-7	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around geomean	0.45	1.00
MW-7	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00180
MW-7	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CI around geomean	171	151
MW-7	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002
MW-7	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	563	494
MW-8	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-8	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00480
MW-8	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.0197	0.150
MW-8	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001
MW-8	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around geomean	0.955	0.296
MW-8	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.001
MW-8	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	14.6	18.0
MW-8	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.0015	0.00950
MW-8	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	29	CB around linear reg	0.000844	0.00390
MW-8	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around T-S line	0.219	0.510
MW-8	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00510
MW-8	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	48	CB around linear reg	0.00293	0.0120
MW-8	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.0002
MW-8	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	100	All ND - Last	0.0015	0.00620
MW-8	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CI around mean	6.6/6.7	5.6/7.6
MW-8	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around median	0.2	1.00
MW-8	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00180
MW-8	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	218	151
MW-8	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002
MW-8	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	767	494
MW-11	UA	E002	Antimony, total	mg/L	12/15/15 - 09/05/23	27	100	All ND - Last	0.001	0.001
MW-11	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/05/23	29	21	CI around median	0.0012	0.00480
MW-11	UA	E002	Barium, total	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	0.112	0.150
MW-11	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/05/23	27	100	All ND - Last	0.001	0.001
MW-11	UA	E002	Boron, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	1.56	0.296
MW-11	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.001	0.001
MW-11	UA	E002	Chloride, total	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	29.8	18.0
MW-11	UA	E002	Chromium, total	mg/L	12/15/15 - 09/05/23	29	97	CB around T-S line	0.00149	0.00950

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-11	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/05/23	29	93	CI around median	0.001	0.00390
MW-11	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	0.494	0.510
MW-11	UA	E002	Lead, total	mg/L	12/15/15 - 09/05/23	29	100	All ND - Last	0.001	0.00510
MW-11	UA	E002	Lithium, total	mg/L	12/15/15 - 09/05/23	21	43	CB around linear reg	0.00279	0.0120
MW-11	UA	E002	Mercury, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.0002	0.0002
MW-11	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/05/23	21	5	CI around median	0.0021	0.00620
MW-11	UA	E002	pH (field)	SU	12/15/15 - 09/05/23	29	0	CB around linear reg	6.5/6.8	5.6/7.6
MW-11	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/05/23	30	0	CI around mean	0.535	1.00
MW-11	UA	E002	Selenium, total	mg/L	12/15/15 - 09/05/23	29	62	CI around median	0.001	0.00180
MW-11	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/05/23	29	0	CI around mean	107	151
MW-11	UA	E002	Thallium, total	mg/L	12/15/15 - 09/05/23	26	100	All ND - Last	0.002	0.002
MW-11	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/05/23	29	0	CB around linear reg	584	494
MW-12	UA	E002	Antimony, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001
MW-12	UA	E002	Arsenic, total	mg/L	12/15/15 - 09/07/23	29	97	CI around median	0.001	0.00480
MW-12	UA	E002	Barium, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	0.0549	0.150
MW-12	UA	E002	Beryllium, total	mg/L	12/15/15 - 09/07/23	27	100	All ND - Last	0.001	0.001
MW-12	UA	E002	Boron, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	2.68	0.296
MW-12	UA	E002	Cadmium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.001	0.001
MW-12	UA	E002	Chloride, total	mg/L	12/15/15 - 09/07/23	29	0	CB around linear reg	18.9	18.0
MW-12	UA	E002	Chromium, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.0015	0.00950
MW-12	UA	E002	Cobalt, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00390
MW-12	UA	E002	Fluoride, total	mg/L	12/15/15 - 09/07/23	29	0	CI around median	0.18	0.510
MW-12	UA	E002	Lead, total	mg/L	12/15/15 - 09/07/23	29	100	All ND - Last	0.001	0.00510
MW-12	UA	E002	Lithium, total	mg/L	12/15/15 - 09/07/23	21	0	CI around mean	0.00835	0.0120
MW-12	UA	E002	Mercury, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.0002	0.0002
MW-12	UA	E002	Molybdenum, total	mg/L	12/15/15 - 09/07/23	21	90	CB around T-S line	0.00144	0.00620
MW-12	UA	E002	pH (field)	SU	12/15/15 - 09/07/23	29	0	CB around linear reg	6.3/6.7	5.6/7.6

ATTACHMENT B.
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KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-12	UA	E002	Radium 226 + Radium 228, total	pCi/L	12/15/15 - 09/07/23	30	0	CI around median	0.429	1.00
MW-12	UA	E002	Selenium, total	mg/L	12/15/15 - 09/07/23	29	97	CI around median	0.001	0.00180
MW-12	UA	E002	Sulfate, total	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	363	151
MW-12	UA	E002	Thallium, total	mg/L	12/15/15 - 09/07/23	26	100	All ND - Last	0.002	0.002
MW-12	UA	E002	Total Dissolved Solids	mg/L	12/15/15 - 09/07/23	29	0	CI around mean	1,080	494
MW-20	UA	E002	Antimony, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20	UA	E002	Arsenic, total	mg/L	02/26/21 - 09/06/23	11	46	CI around median	0.001	0.00480
MW-20	UA	E002	Barium, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	0.103	0.150
MW-20	UA	E002	Beryllium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20	UA	E002	Boron, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	0.514	0.296
MW-20	UA	E002	Cadmium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20	UA	E002	Chloride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	22.3	18.0
MW-20	UA	E002	Chromium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00950
MW-20	UA	E002	Cobalt, total	mg/L	02/26/21 - 09/06/23	11	91	CI around median	0.001	0.00390
MW-20	UA	E002	Fluoride, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	0.319	0.510
MW-20	UA	E002	Lead, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-20	UA	E002	Lithium, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	-0.00462	0.0120
MW-20	UA	E002	Mercury, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-20	UA	E002	Molybdenum, total	mg/L	02/26/21 - 09/06/23	11	9	CB around linear reg	-0.00114	0.00620
MW-20	UA	E002	pH (field)	SU	02/26/21 - 09/06/23	11	0	CI around mean	6.8/7.1	5.6/7.6
MW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/06/23	11	0	CI around mean	0.196	1.00
MW-20	UA	E002	Selenium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-20	UA	E002	Sulfate, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	141	151
MW-20	UA	E002	Thallium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-20	UA	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/06/23	10	0	CB around linear reg	621	494
MW-20S	USCU	E002	Antimony, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20S	USCU	E002	Arsenic, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00480

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-20S	USCU	E002	Barium, total	mg/L	02/26/21 - 09/06/23	11	9	CI around median	0.0346	0.150
MW-20S	USCU	E002	Beryllium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20S	USCU	E002	Boron, total	mg/L	02/26/21 - 09/06/23	11	0	CB around T-S line	1.7	0.296
MW-20S	USCU	E002	Cadmium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-20S	USCU	E002	Chloride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	17.1	18.0
MW-20S	USCU	E002	Chromium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00950
MW-20S	USCU	E002	Cobalt, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00390
MW-20S	USCU	E002	Fluoride, total	mg/L	02/26/21 - 09/06/23	11	0	CI around mean	0.176	0.510
MW-20S	USCU	E002	Lead, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-20S	USCU	E002	Lithium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.003	0.0120
MW-20S	USCU	E002	Mercury, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-20S	USCU	E002	Molybdenum, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00620
MW-20S	USCU	E002	pH (field)	SU	02/26/21 - 09/06/23	11	0	CI around mean	6.5/6.8	5.6/7.6
MW-20S	USCU	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/06/23	11	0	CI around mean	0.0887	1.00
MW-20S	USCU	E002	Selenium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-20S	USCU	E002	Sulfate, total	mg/L	02/26/21 - 09/06/23	11	0	CB around linear reg	330	151
MW-20S	USCU	E002	Thallium, total	mg/L	02/26/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-20S	USCU	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/06/23	10	0	CB around linear reg	997	494
MW-23	UA	E002	Antimony, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.001
MW-23	UA	E002	Arsenic, total	mg/L	02/26/21 - 09/05/23	11	54	CI around median	0.001	0.00480
MW-23	UA	E002	Barium, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	0.0807	0.150
MW-23	UA	E002	Beryllium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.001
MW-23	UA	E002	Boron, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	1.67	0.296
MW-23	UA	E002	Cadmium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.001
MW-23	UA	E002	Chloride, total	mg/L	02/26/21 - 09/05/23	11	0	CB around linear reg	24.8	18.0
MW-23	UA	E002	Chromium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.0015	0.00950
MW-23	UA	E002	Cobalt, total	mg/L	02/26/21 - 09/05/23	11	36	CI around median	0.001	0.00390

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-23	UA	E002	Fluoride, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	0.343	0.510
MW-23	UA	E002	Lead, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.00510
MW-23	UA	E002	Lithium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.003	0.0120
MW-23	UA	E002	Mercury, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.0002	0.0002
MW-23	UA	E002	Molybdenum, total	mg/L	02/26/21 - 09/05/23	11	91	CI around median	0.0015	0.00620
MW-23	UA	E002	pH (field)	SU	02/26/21 - 09/05/23	11	0	CI around mean	6.5/6.8	5.6/7.6
MW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/26/21 - 09/05/23	11	0	CI around mean	0.187	1.00
MW-23	UA	E002	Selenium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.001	0.00180
MW-23	UA	E002	Sulfate, total	mg/L	02/26/21 - 09/05/23	11	0	CI around mean	42.8	151
MW-23	UA	E002	Thallium, total	mg/L	02/26/21 - 09/05/23	11	100	All ND - Last	0.002	0.002
MW-23	UA	E002	Total Dissolved Solids	mg/L	02/26/21 - 09/05/23	10	0	CI around mean	578	494
MW-28	UA	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-28	UA	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.00480
MW-28	UA	E002	Barium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.0217	0.150
MW-28	UA	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-28	UA	E002	Boron, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	8.71	0.296
MW-28	UA	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-28	UA	E002	Chloride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	12.5	18.0
MW-28	UA	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00950
MW-28	UA	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	11	82	CI around median	0.001	0.00390
MW-28	UA	E002	Fluoride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around median	0.12	0.510
MW-28	UA	E002	Lead, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-28	UA	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.006	0.0120
MW-28	UA	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-28	UA	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	11	91	CI around median	0.0015	0.00620
MW-28	UA	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.5/6.9	5.6/7.6
MW-28	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 09/06/23	11	0	CB around linear reg	0.196	1.00

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-28	UA	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-28	UA	E002	Sulfate, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	817	151
MW-28	UA	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-28	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	1,620	494
MW-30	UA	E002	Antimony, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-30	UA	E002	Arsenic, total	mg/L	02/25/21 - 09/06/23	11	9	CB around linear reg	0.0017	0.00480
MW-30	UA	E002	Barium, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.151	0.150
MW-30	UA	E002	Beryllium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-30	UA	E002	Boron, total	mg/L	02/25/21 - 09/06/23	11	0	CI around geomean	1.09	0.296
MW-30	UA	E002	Cadmium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-30	UA	E002	Chloride, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	46.3	18.0
MW-30	UA	E002	Chromium, total	mg/L	02/25/21 - 09/06/23	11	73	CI around median	0.0015	0.00950
MW-30	UA	E002	Cobalt, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.00203	0.00390
MW-30	UA	E002	Fluoride, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	0.273	0.510
MW-30	UA	E002	Lead, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-30	UA	E002	Lithium, total	mg/L	02/25/21 - 09/06/23	11	82	CB around T-S line	-0.0131	0.0120
MW-30	UA	E002	Mercury, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-30	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/06/23	11	36	CI around geomean	0.00155	0.00620
MW-30	UA	E002	pH (field)	SU	02/25/21 - 09/06/23	11	0	CI around mean	6.4/6.6	5.6/7.6
MW-30	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 09/06/23	11	0	CI around geomean	0.54	1.00
MW-30	UA	E002	Selenium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-30	UA	E002	Sulfate, total	mg/L	02/25/21 - 09/06/23	11	27	CB around linear reg	-40.9	151
MW-30	UA	E002	Thallium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-30	UA	E002	Total Dissolved Solids	mg/L	02/25/21 - 09/06/23	10	0	CI around median	612	494
MW-31	UA	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-31	UA	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	11	9	CI around mean	0.00235	0.00480
MW-31	UA	E002	Barium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.215	0.150

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-31	UA	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-31	UA	E002	Boron, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.241	0.296
MW-31	UA	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-31	UA	E002	Chloride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	47.2	18.0
MW-31	UA	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00950
MW-31	UA	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	11	82	CI around median	0.001	0.00390
MW-31	UA	E002	Fluoride, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.167	0.510
MW-31	UA	E002	Lead, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-31	UA	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	11	0	CI around mean	0.00462	0.0120
MW-31	UA	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-31	UA	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	11	46	CI around median	0.0015	0.00620
MW-31	UA	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.5/6.7	5.6/7.6
MW-31	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 09/06/23	11	0	CI around mean	0.51	1.00
MW-31	UA	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-31	UA	E002	Sulfate, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	10	151
MW-31	UA	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-31	UA	E002	Total Dissolved Solids	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	571	494
MW-31S	USCU	E002	Antimony, total	mg/L	02/24/21 - 09/06/23	10	80	CI around median	0.001	0.001
MW-31S	USCU	E002	Arsenic, total	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	0.00449	0.00480
MW-31S	USCU	E002	Barium, total	mg/L	02/24/21 - 09/06/23	10	0	CI around geomean	0.191	0.150
MW-31S	USCU	E002	Beryllium, total	mg/L	02/24/21 - 09/06/23	10	90	CI around median	0.001	0.001
MW-31S	USCU	E002	Boron, total	mg/L	02/24/21 - 09/06/23	10	0	CI around mean	0.0419	0.296
MW-31S	USCU	E002	Cadmium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.001	0.001
MW-31S	USCU	E002	Chromium, total	mg/L	02/24/21 - 09/06/23	10	40	CI around geomean	0.00175	0.00950
MW-31S	USCU	E002	Cobalt, total	mg/L	02/24/21 - 09/06/23	10	0	CI around geomean	0.00281	0.00390
MW-31S	USCU	E002	Lead, total	mg/L	02/24/21 - 09/06/23	10	30	CI around geomean	0.00116	0.00510
MW-31S	USCU	E002	Lithium, total	mg/L	02/24/21 - 09/06/23	10	50	CI around median	0.003	0.0120

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
MW-31S	USCU	E002	Mercury, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.0002	0.0002
MW-31S	USCU	E002	Molybdenum, total	mg/L	02/24/21 - 09/06/23	10	20	CI around mean	0.00238	0.00620
MW-31S	USCU	E002	pH (field)	SU	02/24/21 - 09/06/23	11	0	CI around mean	6.4/6.7	5.6/7.6
MW-31S	USCU	E002	Selenium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.001	0.00180
MW-31S	USCU	E002	Thallium, total	mg/L	02/24/21 - 09/06/23	10	100	All ND - Last	0.002	0.002
MW-32	UA	E002	Antimony, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-32	UA	E002	Arsenic, total	mg/L	02/25/21 - 09/06/23	11	91	CI around median	0.001	0.00480
MW-32	UA	E002	Barium, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	0.029	0.150
MW-32	UA	E002	Beryllium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-32	UA	E002	Boron, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	1.52	0.296
MW-32	UA	E002	Cadmium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.001
MW-32	UA	E002	Chloride, total	mg/L	02/25/21 - 09/06/23	11	0	CB around linear reg	9.54	18.0
MW-32	UA	E002	Chromium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00950
MW-32	UA	E002	Cobalt, total	mg/L	02/25/21 - 09/06/23	11	73	CI around median	0.001	0.00390
MW-32	UA	E002	Fluoride, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	0.171	0.510
MW-32	UA	E002	Lead, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.00510
MW-32	UA	E002	Lithium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.003	0.0120
MW-32	UA	E002	Mercury, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0002	0.0002
MW-32	UA	E002	Molybdenum, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.0015	0.00620
MW-32	UA	E002	pH (field)	SU	02/25/21 - 09/06/23	11	0	CI around mean	6.3/6.6	5.6/7.6
MW-32	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/25/21 - 09/06/23	11	0	CI around mean	0.0518	1.00
MW-32	UA	E002	Selenium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.001	0.00180
MW-32	UA	E002	Sulfate, total	mg/L	02/25/21 - 09/06/23	11	0	CI around mean	407	151
MW-32	UA	E002	Thallium, total	mg/L	02/25/21 - 09/06/23	11	100	All ND - Last	0.002	0.002
MW-32	UA	E002	Total Dissolved Solids	mg/L	02/25/21 - 09/06/23	10	0	CI around median	1,050	494

ATTACHMENT B.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023

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KINCAID POWER PLANT
ASH POND
KINCAID, IL

Notes:

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

USCU = Upper Semi-Confining Unit

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination