



# Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield, Illinois • 62794-9276 • 217-782-3397

## COAL COMBUSTION RESIDUALS GRO NDWATER, LEACHATE, AND FACILITY REPORTING FORM

This form must be used as a cover sheet for the notices and reports identified below as required by the facility's Coal Combustion Residuals (CCR) permit for any CCR Surface Impoundments (CCRSIs). All reports must be submitted to the Illinois EPA's Bureau of Land, Permit Section. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

**Note: This form is not to be used with permit applications. The facility's approved permit will state whether the document you are submitting is required as a report or an application.**

### 1.0 Facility Identification

Facility Name: Joliet/Lincoln Stone Quarry

Facility Address: 1601 S. Patterson Rd., Joliet, IL 60436

Site ID #: 1978090001 Fed ID #: \_\_\_\_\_

### 2.0 Type of Submission

Check the appropriate heading. Only one heading may be checked for each corresponding submittal. Check the appropriate sub-heading, where applicable. Attach the original and all copies behind this form.

- LPC-160 Forms (electronic reporting for each sampling event)
 

<u>Groundwater</u>	<u>Leachate</u>
_____ Quarterly - Enter 1, 2, 3, or 4	_____ Quarterly - Enter 1, 2, 3, or 4
<input type="checkbox"/> Semi-Annual	<input type="checkbox"/> Semi-Annual
<input type="checkbox"/> Annual	<input type="checkbox"/> Annual
  
- Groundwater Data (without LPC-160 Forms) (35 IAC 845.610(b)(3)(D))
  - \_\_\_\_\_ Quarterly - Enter 1, 2, 3, or 4
  - Semi-Annual
  - Annual
  
- Well Construction Information
  - Well Construction Forms, Boring Logs and/or Abandonment Forms
  - Well Survey Data (e.g., Stick-up Elevation Data)
  
- Quarterly Fugitive Dust Complaint Report (35 IAC 845.500(b)(2)(B))
  
- Emergency Action Plan (35 IAC 845.520(f))
  
- Annual Consolidated Report (35 IAC 845.550(a))
  
- Notice of Confirmed Increase of Groundwater Exceedance from Re-sample (35 IAC 845.650(d))
  
- Notice of Plume Contamination Off-Site (35 IAC 845.650(d)(2))
  
- Alternate Source Demonstration (35 IAC 845.650(e))

- Assessment of Corrective Measures (35 IAC 845.660(a)(2))
- Corrective Action
  - Semi-Annual Report (35 IAC 845.670(a))
  - Corrective Action Completion Report (35 IAC 845.680(e))
- Closure Extension Progress Report (35 IAC 845.700(e))
- Monthly Closure by Removal Report (during active removal) (35 IAC 845.740(d))
- Annual Inflation Adjustment of Cost Estimates (35 IAC 845.940(a))
- Other (Identify)

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**TRANSMITTAL**

To: Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
2520 W Iles Ave  
Springfield, IL 62704

Date: January 30, 2026

From: Midwest Generation, LLC Joliet 9 Station

**Re: Midwest Generation, LLC – Joliet 9 Generating Station  
Account No. W1970450046  
CCR Surface Impoundment Annual Consolidated Report**

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In accordance with the requirements of Title 35 of the Illinois Administrative Code (“35 IAC”) Section 845.550, the Annual Consolidated Report is attached for the following CCR surface impoundments at Joliet 9 Generating Station:

<b>Pond ID</b>	<b>CCR Surface Impoundment Description</b>
W1970450046-01	Lincoln Stone Quarry

Lincoln Stone Quarry is an incised impoundment; therefore, the Hazard Potential Classification Assessment, Structural Stability Assessment, and Safety Factor Assessment (Attachments B1, B2, and B3, respectively) are not applicable. The certification page from the Inflow Design Flood Control System Plan has been provided in Attachment B4. A full copy of this assessment can be found on our public website at [www.midwestgenerationllc.com](http://www.midwestgenerationllc.com). If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

# 2025 ANNUAL CONSOLIDATED REPORT JOLIET 9 GENERATING STATION

LINCOLN STONE QUARRY – W1970450046-01

ATTACHMENT A – ANNUAL CCR FUGITIVE DUST CONTROL REPORT

ATTACHMENT B – ANNUAL INSPECTION REPORT

ATTACHMENT B.1 – HAZARD POTENTIAL CLASSIFICATION ASSESSMENT  
CERTIFICATION

ATTACHMENT B.2 – STRUCTURAL STABILITY ASSESSMENT CERTIFICATION

ATTACHMENT B.3 – SAFETY FACTOR ASSESSMENT CERTIFICATION

ATTACHMENT B.4 – INFLOW DESIGN FLOOD CONTROL PLAN

ATTACHMENT C – ANNUAL GROUNDWATER MONITORING AND CORRECTIVE  
ACTION REPORT

ATTACHMENT D – MONTHLY SURFACE IMPOUNDMENT WATER ELEVATIONS

ATTACHMENT A  
2025 ANNUAL CCR FUGITIVE DUST  
CONTROL REPORT

# Annual CCR Fugitive Dust Control Report

## Joliet #9 Generating Station

1601 South Patterson Road, Joliet, Illinois

### ***1.0 Introduction***

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On April 15, 2021, the Illinois Pollution Control Board adopted a new part of its waste disposal regulations creating state-wide standards for the disposal of coal combustion residuals (CCR) in surface impoundments, created by the generation of electricity by coal-fired power plants (the IL CCR Rule). These requirements include air criteria specified in Title 35 of the Illinois Administrative Code, §845.500, to address the potential pollution caused by windblown dust from CCR units.

The Joliet #9 Generating Station, operated by Midwest Generation, LLC (MWG), is located at 1601 South Patterson Road, Joliet, Will County, Illinois. The facility consists of a retired natural gas-fired electric power generating station (formerly coal-fired) situated on approximately 170 acres and the associated Lincoln Stone Quarry (LSQ) occupying approximately 120 acres, each are located on the south side of the Des Plaines River. The Station has one generating unit, identified as Unit 6, that retired on June 1, 2023. Lincoln Stone Quarry includes a former ash placement site referred to as the West Filled Area that ceased receiving CCR prior to 1994 and the Main Quarry which is permitted as a landfill by Illinois EPA for bottom ash and slag and has ceased receiving CCR. Lincoln Stone Quarry may remain open to allow for the beneficial reuse of slag. The Rule applies to this facility due to the management of CCR that was generated from the combustion of coal. The CCR unit associated with the station is the LSQ Main Quarry.

According to the IL CCR Rule, owners or operators of CCR units must adopt measures that will effectively minimize CCR from becoming airborne at the facility by developing and operating in accordance with a Fugitive Dust Control Plan (Plan) with adequate dust control measures. In this regard, a Plan was prepared that complied with the requirements as specified in §845.500(b)(1-7) of the IL CCR Rule and placed in the Lincoln Stone Quarry facility's operating record on October 31, 2021 per §845.800(d)(7). As required, the Plan was also posted to the publicly accessible internet site per §845.810(e).

In addition to the above and per §845.500(c), an Annual Fugitive Dust Control Report (Annual Report) must be completed that includes the following:

- Description of actions taken to control CCR fugitive dust and
- The four quarterly fugitive dust complaint reports submitted under subsection (b)(2)(B)

# **Annual CCR Fugitive Dust Control Report**

## **Joliet #9 Generating Station**

1601 South Patterson Road, Joliet, Illinois

The Annual Report must be submitted as part of the annual consolidated report required by §845.550. This document represents the 2025 Annual Report for LSQ and will also be appropriately placed in the facility's operating record per §845.800(d)(7) and posted to the publicly accessible internet site per §845.810(e).

## ***2.0 Actions Taken to Control CCR Fugitive Dust***

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As detailed in the CCR Fugitive Dust Control Plan (Plan) and reiterated below, the station has established procedures and inspection requirements which are implemented to minimize/eliminate airborne emissions from the potential fugitive dust sources. The results from inspections conducted and associated observations made during CCR handling activities are documented on logs maintained in the station's Environmental Department. As a result of the fuel conversion, and the correlated fact that all coal combustion ceased at the facility as of March 20, 2016 and the cessation of receipt of CCR, the only remaining potential CCR fugitive dust source is final closure of LSQ.

### ***2.1 Lincoln Stone Quarry***

Prior to the 2016 fuel conversion of Joliet #9 and Joliet #29 to Natural Gas, LSQ used to receive bottom ash and slag from both generating stations. Ash in the Main Quarry is approximately 40 feet below grade and is confined by the quarry walls and, therefore, not readily susceptible to wind erosion and generation of potential CCR fugitive dust emissions. If slag or ash are removed from the Main Quarry for beneficial use, loading of the moisture laden material would also be performed within the Main Quarry at a level well below grade. Therefore, the loading operation is also not susceptible to wind erosion. The ash in the West Filled Area lies beneath a vegetated soil cover which mitigates any wind erosion impacts and the potential for CCR fugitive dust emissions.

No CCR was removed from the Main Quarry for beneficial use during the reporting period.

Operation of the Main Quarry and West Filled Area is performed in accordance with the conditions of the state issued permit, No. 1994-241-LFM, dated June 11, 2018, Modification No. 24. The issued permit includes the requirement to control dust to prevent wind dispersal of particulate matter off site. Additionally, the permit requires quarterly inspections of the West Filled Area and requires repair of erosion and scoured channels observed during the inspection.

# Annual CCR Fugitive Dust Control Report

## Joliet #9 Generating Station

1601 South Patterson Road, Joliet, Illinois

### ***3.0 Fugitive CCR Dust Assessments***

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Pursuant to §845.500(b)(3), assessments of the potential fugitive dust emission sources identified in LSQ facility's CCR Fugitive Dust Control Plan (Plan) are conducted to assess the effectiveness of the Plan, if warranted. When required, the assessment includes observation of ash removal and transport activities at the facility to confirm the adequacy of the control measures. If assessments are warranted, they are conducted on a quarterly basis by an individual designated by the contact identified below. Observations made during each assessment are recorded on a form similar to the one included in Appendix B of the LSQ facility's CCR Fugitive Dust Control Plan.

No assessments were deemed necessary in the past year based on the weekly CCR impoundment inspections and lack of changes to operations at this unit.

If the results of the assessment determine that ash-related equipment has malfunctioned or the integrity of the equipment has been compromised, the necessary repairs or replacement are performed as soon as feasible. If the assessment finds that the Plan does not effectively minimize the CCR from becoming airborne, the Plan is amended to include additional control measures. No issues were identified during this Annual Report's period of record covering January through December 2025.

#### **Owner Representative/Responsible Person Contact Information:**

Mr. Phillip Raush  
Plant Manager  
815-207-5412

### ***4.0 Record of Citizen Complaints***

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Per the Rule, the Annual Report must include copies of the four quarterly fugitive dust complaint reports submitted under §845.500(b)(2)(B). The quarterly fugitive dust complaint reports contain a record of all citizen complaints that were received by the station with regard to fugitive dust emission incidents. In line with established protocols and within 24 hours of receipt, the station's environmental coordinator enters the citizen complaint into MWG's Environmental Management Information System (EMIS) database. The EMIS database then automatically forwards notice of the complaint to the station manager and corporate environmental department. Following initial evaluation of the complaint, MWG then conducts a thorough investigation to confirm the reported incident/conditions and implement corrective actions as may be warranted.

**Annual CCR Fugitive Dust Control Report**  
**Joliet #9 Generating Station**  
1601 South Patterson Road, Joliet, Illinois

No complaints were registered during this Annual Report's period of record covering January through December 2025.

***5.0 Summary of Corrective Actions Taken***

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For the January through December 2025 period of record and based on continued monitoring and inspections as outlined in Section 2.0 and 3.0 and as required under the CCR rules, the currently established control measures remain effective in minimizing potential fugitive dust emissions. Moreover, this assertion is further validated by the lack of citizen complaints logged over this same period. Accordingly, no corrective actions were required during the past year.

QUARTERLY FUGITIVE DUST  
COMPLAINT REPORTS



Midwest Generation, LLC  
Joliet Generating Station  
1800 Channahon Road  
Joliet, Illinois 60436

April 7, 2025

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
2520 W Iles Ave  
Springfield, IL 62704

**Re: Midwest Generation, LLC – Joliet 9 Generating Station  
Account No. W1970450046  
Pond ID: W1970450046-01  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for First Quarter 2025 at Joliet 9 Generating Station. There were no complaints received from members of the public during the period January 1, 2025 through March 31, 2025.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

A handwritten signature in black ink, appearing to read "P. Raush".

Phillip Raush  
Plant Manager  
Joliet Generating Station



Midwest Generation, LLC  
Joliet Generating Station  
1800 Channahon Road  
Joliet, Illinois 60436

July 7, 2025

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
2520 W Iles Avenue  
Springfield, IL 62704

**Re: Midwest Generation, LLC – Joliet 9 Generating Station**  
**Account No. W1970450046**  
**Pond ID: W1970450046-01**  
**CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code (“35 IAC”) Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Second Quarter 2025 at Joliet 9 Generating Station. There were no complaints received from members of the public during the period April 1, 2025 through June 30, 2025.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

Phillip Raush  
Plant Manager, Joliet Generating Station



Midwest Generation, LLC

Midwest Generation, LLC  
Joliet Generating Station  
1800 Channahon Road  
Joliet, Illinois 60436

October 3, 2025

Illinois Environmental Protection Agency  
Bureau of Land - # 33  
Permit Section  
2520 West Iles Avenue  
Springfield, IL 62704

**Re: Midwest Generation, LLC – Joliet 9 Generating Station**  
**Site ID: 1978090001**  
**Log No.: 2021-482**  
**CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Third Quarter 2025 at Joliet 9 Generating Station. There were no complaints received from members of the public during the period July 1, 2025 through September 30, 2025.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

A handwritten signature in black ink that reads "P. Raush".

Phillip Raush  
Plant Manager, Joliet Generating Station



Midwest Generation, LLC  
Joliet Generating Station  
1800 Channahon Road  
Joliet, Illinois 60436

January 8, 2026

Illinois Environmental Protection Agency  
Bureau of Land - # 33  
Permit Section  
2520 West Iles Avenue  
Springfield, IL 62704

**Re: Midwest Generation, LLC – Joliet 9 Generating Station  
Site ID: 1978090001  
Log No.: 2021-482  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Fourth Quarter 2025 at Joliet 9 Generating Station. There were no complaints received from members of the public during the period October 1, 2025 through December 31, 2025.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

FOR

Phillip Raush  
Plant Manager, Joliet Generating Station

**ATTACHMENT B**  
**2025 ANNUAL INSPECTION REPORT**



ENVIRONMENTAL CONSULTATION & REMEDIATION

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**KPRG and Associates, Inc.**

**MIDWEST GENERATION  
JOLIET/LINCOLN STONE QUARRY LANDFILL  
2978090002—Will County  
Permit No. 1994-241-LFM (Modification No. 24)**

**5<sup>th</sup> ANNUAL CCR SURFACE IMPOUNDMENT REPORT  
YEAR ENDING DECEMBER 31<sup>ST</sup>, 2025**

**Prepared By:  
KPRG and Associates, Inc.  
14665 W. Lisbon Rd., Suite 1A  
Brookfield, WI 53005**

**January 27, 2026**

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Figure 1 Site Plan

## 1.0 INTRODUCTION TO ANNUAL REPORT

The Lincoln Stone Quarry (LSQ) facility, which is operated by Midwest Generation, LLC, is located at the southwest corner of the intersection of Patterson Road and Brandon Road in Joliet, Illinois. LSQ operated as a disposal facility for bottom ash and slag from two coal-fired generating stations (Joliet Stations #9 and #29) beginning in 1962 and last received ash for disposal in 2019. It is noted that both power generating stations were converted to natural gas firing in 2016 and ceased power-generating operations entirely in 2023. The disposal facility consists of a previously inactive portion referred to as the West Filled Area (WFA) and an inactive since 2019 ash/slag disposal area referred to as the Main Quarry. Water was used to sluice the ash from the generating plants and was discharged into the Main Quarry where the ash then settled out and the water was subsequently discharged as discussed further below. The fifth Annual Coal Combustion Residuals (CCR) Report for the Midwest Generation Lincoln Stone Quarry for calendar year 2025 was prepared in accordance with 35 Illinois Administrative Code (IAC) Sections 845.540 and 845.550.

## 2.0 ANNUAL INSPECTION (Section 35 IAC Section 845.540(b))

In accordance with Section 35 IAC Section 845.540(b), the Annual Inspection was by a Qualified Professional Engineer, Timothy J. Stohner, on December 23, 2025.

- 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. In accordance with 35 IAC Section 845.540(b)(1), A through G, the inspection included, at a minimum, the following except as where it was noted to be not applicable.
  - 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);

In accordance with Sections 845.220(a)(1) and 845.230(d)(2)(A), the operating record in the form of the Application for Initial Operating Permit, prepared by KPRG and dated October 29, 2021 and the Application for Initial Construction Permit and dated January 28, 2022, both prepared by KPRG, were reviewed. It is noted that as LSQ was initially developed in 1962 by others, detailed construction plans from that time are not available. It is noted that Section 845.450 is NOT APPLICABLE as LSQ is an incised CCR surface impoundment. It is also noted that the annual inspection conducted on December 23, 2025 marked the fifth annual inspection since the April 21, 2021 effective date of the 35 IAC Part 845 regulation.

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

The visual inspection of the CCR surface impoundment conducted on December 23, 2025 did not identify any 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;

The visual inspection of visually accessible hydraulic structures underlying or passing through the dike of the CCR surface impoundment conducted on December 23, 2025 did not identify any deficiencies in structural integrity that would prevent continued safe and reliable operation.

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

In accordance with 35 IAC Section 845.440(b), this requirement is NOT APPLICABLE as LSQ is an incised CCR surface impoundment.

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

In accordance with 35 IAC Section 845.450(e), this requirement is NOT APPLICABLE as LSQ is an incised CCR surface impoundment.

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

In accordance with 35 IAC Section 845.460(e), this requirement is NOT APPLICABLE as LSQ is an incised CCR surface impoundment.

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

For an incised CCR surface impoundment, the inflow design flood corresponds to the 25-year flood. This plan certification was prepared by Geosyntec Consultants and dated September 2025.

- 2) Inspection Report. The qualified professional engineer must prepare a report following each inspection that addresses the following:

- A) Any changes in geometry of the impounding structure since the previous annual inspection;

The annual inspection conducted on December 23, 2025 marks the fifth annual inspection since the April 21, 2021 effective date of the 35 IAC Part 845 regulation. Also, KPRG personnel have been performing weekly inspections of LSQ since April 1, 2020. To date, no changes in the impounding structure have been identified.

- B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection;

Water level instrumentation (pressure transducer, data logger, and radio antenna to transmit data to a website accessible by MWG) for LSQ is located near the northeast corner of the site (Figure 1). Water levels are recorded daily and delivered wirelessly to QED Environmental. Water level alerts are transmitted via email to relevant personnel with Midwest Generation and KPRG.

An interim remedial action consisting of four extraction wells was installed and operational since the end of April 2010 at the southeast corner of the Main Quarry. This system was expanded in 2011 along the entire south perimeter of the Main Quarry and WFA (becoming operational in the first quarter of 2012) to include a total of 12 extraction wells. The extraction system intercepts Main Quarry water before it is drawn to the southeast as a result of dewatering operations at the Vulcan Laraway Quarry located approximately 1,000 feet southeast of the LSQ facility. KPRG monitors the proper pump operation. Instrumentation located in control panels along the southern perimeter notes the pump operation and includes total hours of operation for each pump.

- C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;

KPRG reviewed water level data from January 1, 2025 through December 31, 2025, the minimum water level was 536.21 feet above mean sea level (amsl) on November 11, 2025 and the maximum water level was 541.07 feet amsl occurring on May 7, 2025. The average water level during 2024 was 540.28 feet amsl.

The base of the Main Quarry ranges from 510 ft amsl to a low point of 477 ft amsl and the base of the West Filled Area (WFA) at approximately 480 ft amsl. The current average ash elevation is 533 ft amsl. The surrounding ground elevation of the WFA and the Main Quarry is at approximately 590-600 ft amsl. The surrounding walls of LSQ are Silurian Dolomite bedrock topped with overburden soil. The overburden ranges from approximately 5 feet in thickness to 20 feet in thickness as the ground elevations increase to the south, west, and east. The overburden to the north, remains at a relatively constant elevation because Patterson Road is constructed adjacent to LSQ.

- D) The storage capacity of the impounding structure at the time of the inspection;

According to available records, the storage capacity is approximately 6,300,000 cubic yards).

- E) The approximate volume of the impounded water and CCR at the time of the inspection;

The approximate volumes of impounded water and CCR based on the average 2025 water level of 540.28 feet above sea level were 533,000 and 4,300,000 cubic yards, respectively.

- F) Any appearances of an actual or potential structural weakness of the CCR surface impoundment, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR surface impoundment and appurtenant structures;

The annual inspection conducted on December 23, 2025 marks the fifth annual inspection since the April 21, 2021 effective date of the 35 IAC Part 845 regulation. No actual or potential structural weaknesses have been noted to date.

- G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.

The annual inspection conducted on December 23, 2025 marks the fifth annual inspection since the April 21, 2021 effective date of the 35 IAC Part 845 regulation. No changes were noted to the stability or operation of the impounding structure on that day or previously.

- 3) By January 31 of each year, the inspection report must be completed and included with the annual consolidated report required by Section 845.550.

This annual inspection report is included as an Attachment to the Annual Consolidated Report.

- 4) Frequency of Inspections. The owner or operator of the CCR surface impoundment must conduct the inspection required by subsections (b)(1) and (2) on an annual basis. The deadline for conducting a subsequent inspection is based on the date of conducting the previous inspection.

Future annual inspections will be performed on or before December 31, of the appropriate year.

- 5) If a deficiency or release is identified during an inspection, the owner or operator must submit to the Agency documentation detailing proposed corrective measures and obtain any necessary permits from the Agency.

This inspection did not identify any deficiency or release.

### 3.0 P.E. CERTIFICATION

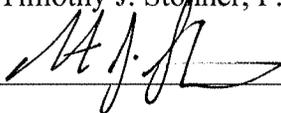
The owner or operator of the CCR surface impoundment must submit the annual consolidated report to the Agency in addition to placing the annual consolidated report in the facility's operating record as required by Section 845.800(d)(14).

I hereby certify that the annual inspection was conducted in accordance with Section 845.540(b), and that this annual consolidated report was prepared and is being submitted to IEPA and placed in the facility's operating record as required.

Certified by:

Professional Engineer: Timothy J. Stohner, P.E.

Signature:

  
\_\_\_\_\_

Date:

1/27/2026

Company: KPRG and Associates, Inc.

Registration State: Illinois

Registration Number: 062.057635

License Expiration Date: November 30, 2027

P. E. Stamp:





**ATTACHMENT B.1**  
**2025 ANNUAL HAZARD POTENTIAL**  
**CLASSIFICATION CERTIFICATION**

Lincoln Stone Quarry is an incised impoundment; therefore, per §845.440(b), this certification is not required.

**ATTACHMENT B.2**  
**2025 ANNUAL STRUCTURAL STABILITY**  
**ASSESSMENT CERTIFICATION**

Lincoln Stone Quarry is an incised impoundment; therefore, per §845.450(e), this certification is not required.

**ATTACHMENT B.3  
2025 ANNUAL SAFETY FACTOR  
ASSESSMENT CERTIFICATION**

Lincoln Stone Quarry is an incised impoundment; therefore, per §845.460(e), this certification is not required.

**ATTACHMENT B.4  
2025 ANNUAL INFLOW DESIGN FLOOD  
CONTROL SYSTEM PLAN  
CERTIFICATION**

24-hour, 25-year storm event for the upstream catchment area, which was estimated based on regional topography and the Runoff Curve Number Method. Analysis demonstrating the inflow design flow is included in **Appendix A**. The total inflow into the Quarry during the 24-hour 25-year storm event is estimated to be 38.4 acre-feet. Based on 2025 surface water conditions and Site observations, the surface area of the impounded water within the Quarry is approximately 12.5 acres. The Site drainage area has remained unchanged from 2024, therefore the Stormwater Run-On Calculation results provided **Appendix A** have also remained constant. The estimated potential water level increase is calculated to be 3.1 ft from the design event. Therefore, the water level in the Quarry after the design event is estimated to be at or below 552 ft MSL (operating level of 548 ft MSL plus 4 ft).

The freeboard after the design event is estimated to be a minimum of 20 ft (572 ft MSL – 552 ft MSL). As the existing freeboard is estimated to be at least 20 feet, sufficient storage capacity exists within Quarry to manage the inflow from the design flood event. The inflow design system, as designed and constructed, meets the requirements of Section 845.510.

## ***7. Limitations and Certification***

The annual inflow design flood control system plan meets the requirements of 35 IAC Sections 845.510 and 845.540 and was prepared in accordance with current practices and the standard of care exercised by scientists and engineers performing similar tasks in the field of civil engineering. The contents of this report are based solely on the observations of the conditions observed by Geosyntec personnel and information provided to Geosyntec by Midwest Generation. Consistent with applicable professional standards of care, our opinions and recommendations were based in part on data furnished by others, which was consistent with other information that we developed in the course of our performance of the scope of services. The information contained in this report is intended for use solely by Midwest Generation and their subconsultants.

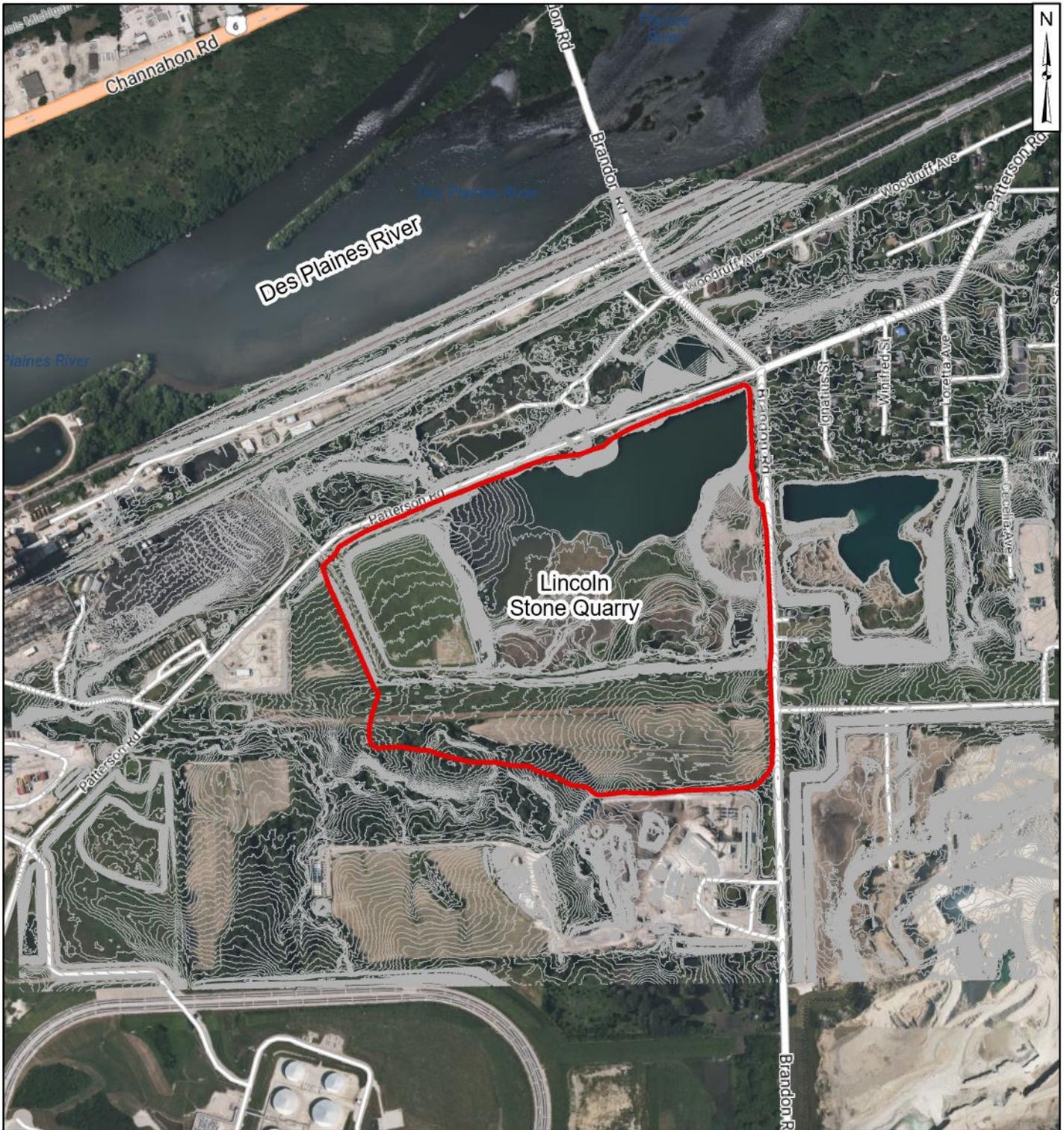


A handwritten signature in black ink that reads "David Kein".

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David Kein, P.E.  
Illinois Professional Engineer No. 062.074005  
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## Figures

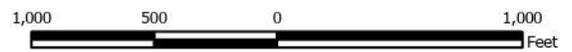


**Legend**

- Catchment Area
- 1 ft. Elevation Contours

**Notes**

- Aerial imagery from Azure Imagery (2025).
- Topography contours provided by Will County Data Viewer (March 2021).



**Catchment Area  
Lincoln Stone Quarry  
Joliet 9 Station**

Joliet, Illinois

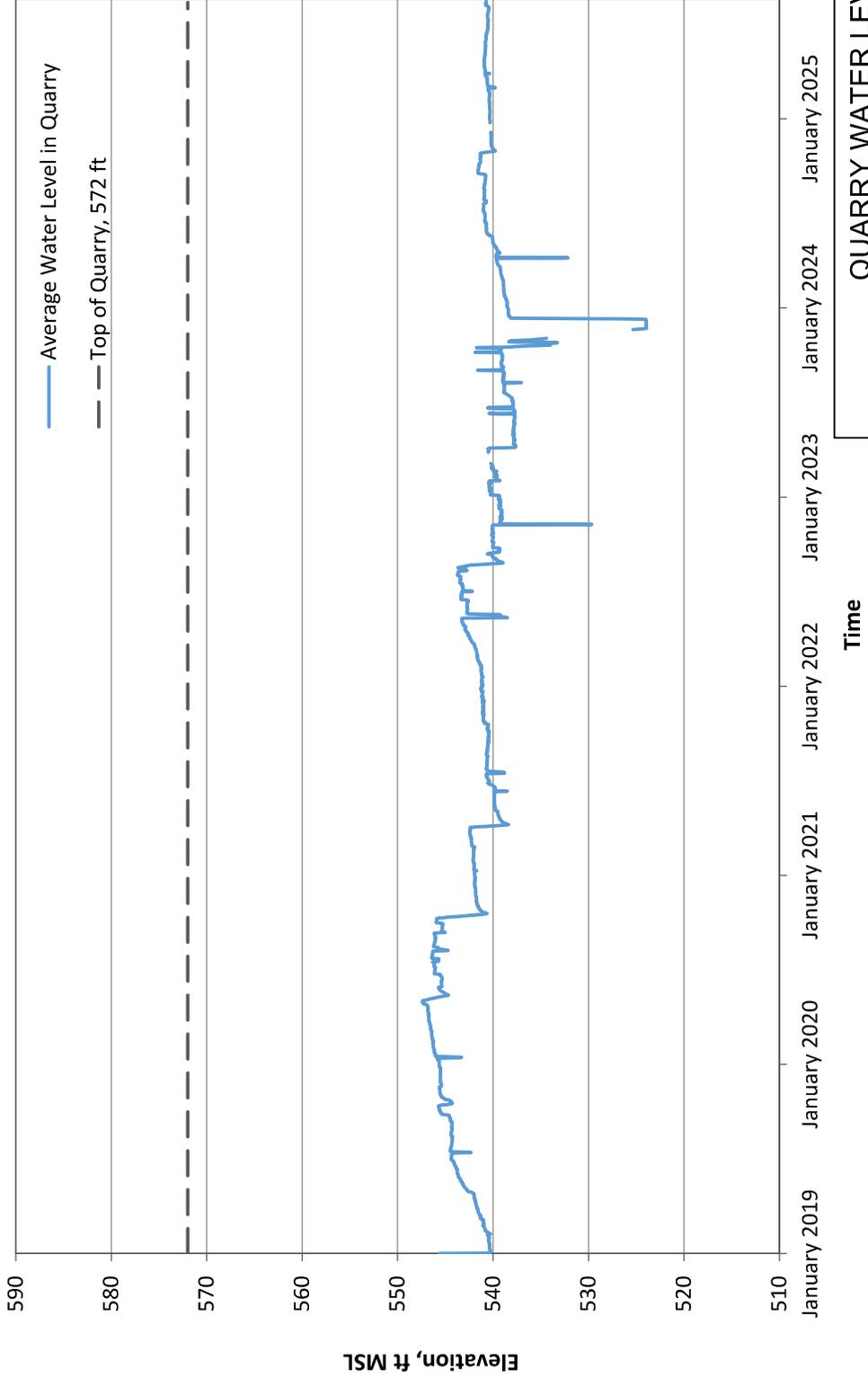
**Geosyntec**  
consultants

Figure

**1**

Project No: GLW8043

September 2025



Note: Daily Quarry water levels recorded by KPRG Associates.

QUARRY WATER LEVEL  
LINCOLN STONE QUARRY  
JOLIET 9 STATION  
JOLIET, ILLINOIS



PROJECT NO: GLW8069      SEPTEMBER 2025

Figure  
2

## **Appendix A**

### **Stormwater Run-on Calculations**

**COMPUTATION COVER SHEET REVISION 3**

Client: Midwest Generation Project: Joliet 9 Station Project/  
Proposal No.: GLW8069  
Task No.

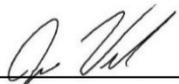
Title of Computations **STORMWATER RUN-ON CALCULATIONS, LINCOLN  
STONE QUARRY**

Computations by: Signature  20 September 2021  
Printed Name Olivia Covert Date  
Title Professional

Assumptions and Procedures Checked by: Signature  27 September 2021  
(peer reviewer) Printed Name Regan Welch Date  
Title Project Engineer

Computations Checked by: Signature  27 September 2021  
Printed Name Regan Welch Date  
Title Project Engineer

Computations backchecked by: Signature  27 September 2021  
(originator) Printed Name Olivia Covert Date  
Title Professional

Approved by: Signature  29 September 2021  
(pm or designate) Printed Name Jesse Varsho, P.E. Date  
Title Principal Engineer

Approval notes: \_\_\_\_\_

Revisions (number and initial all revisions)

No.	Sheet	Date	By	Checked by	Approval
1	All	09/28/22	ORC	REW	10/3/22
2	All	09/13/23	ORC	JPV	09/13/23
3	All	08/26/24	BA	ORC	09/03/24
4	All	08/28/25	BA	DK	09/04/25

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Written by: OC Date: 20 / 09 / 21 Reviewed by: RW Date: 27 / 09 / 21  
DD MM YY DD MM YY

Client: **Midwest** Project: **Joliet 9** Project/Prop No.: **GLW8069** Task No.: **1**  
**Generation**

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**STORMWATER RUN-ON CALCULATIONS  
LINCOLN STONE QUARRY  
JOLIET 9 STATION**

**INTRODUCTION**

Pursuant to 35 Illinois Administration Code (IAC) Section 845.510(c), Geosyntec Consultants, Inc. (Geosyntec) prepared this calculation package to support development of the Inflow Design Flood Control System Plan for the Lincoln Stone Quarry (Quarry) at the Joliet 9 Station (Site) in Joliet, Illinois. 35 IAC Section 845.510(c) requires that operators of every existing or new CCR (Coal Combustion Residuals) surface impoundment design, construct, operate, and maintain an inflow design flood control system that adequately manages flow into the CCR unit during and following the peak discharge of the inflow design flood. This calculation evaluates the inflow design flood and evaluates the capacity of the Quarry to handle inflow from this event.

**CALCULATION OF INFLOW DESIGN FLOW**

The City of Joliet’s “Consolidated Stormwater Management, Soil Erosion and Sediment Control and Floodplain Management Regulations specifies that the Soil Conservation Service (SCS) Runoff Curve Number Method be used to calculate design runoff volumes. The SCS method and its current application are documented in Technical Release 55 (TR-55) published by Natural Resources Conservation Service (NRCS). The SCS runoff equation is:

$$Q = \frac{(P - I_a)^2}{(P - I_a) + S}$$

Where:

Q = runoff (in)

P = rainfall (in)

S = potential maximum retention after runoff begins (in) and

I<sub>a</sub> = initial abstraction (in)

The initial abstraction (I<sub>a</sub>) accounts for all losses prior to the beginning of runoff including water retained in surface depressions, intercepted by vegetation, evaporation, and

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Client: **Midwest** Project: **Joliet 9** Project/Prop No.: **GLW8069** Task No.: **1**  
**Generation**

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infiltration.  $I_a$  is typically correlated with soil cover parameters and is approximated by the equation:

$$I_a = 0.2S$$

S is a function of the soil type and cover and is related to the runoff curve number (CN) by the equation:

$$S = \frac{1000}{CN} - 10$$

Where:

CN = Runoff Curve Number

CN is determined by the Hydrologic Soils Group (HSG) and cover type, treatment, hydrologic condition, and antecedent moisture condition. In cases where multiple land uses occur in the same drainage area, a composite CN is determined by the area weighted method.

After calculating runoff (Q) for a design storm event, the total volume of runoff is then calculated by multiplying the runoff by the drainage area (A).

### **DRAINAGE AREA (A)**

The area of the drainage basin of the Quarry was delineated using topographic maps<sup>1</sup> and aerial images<sup>2</sup>. The catchment area has an estimated area of 89.2 acres (refer to Figure 1), and was subdivided into four areas based on land use (cover) and soil type (HSG) for determination of CN. The catchment area outside of the Quarry footprint is located to the south.

### **RUNOFF CURVE NUMBER (CN)**

The value of the runoff curve number (CN) has been extensively studied in the literature. Its value depends on the land use and type of soil (HSG). In general, the value of CN is

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<sup>1</sup> Topography is dated April 2021, generated by Will County, Illinois Server.

<sup>2</sup> ESRI ArcGIS online images accessed in August 2025. Imagery credit: ESRI





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Written by: OC Date: 20 / 09 / 21 Reviewed by: RW Date: 27 / 09 / 21  
DD MM YY DD MM YY  
Client: **Midwest** Project: **Joliet 9** Project/Prop No.: **GLW8069** Task No.: **1**  
**Generation**

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daily and implements engineering controls to influence the localized groundwater gradients. Average daily water level data within the Quarry indicates that the surface water level has been maintained below 548 feet mean seal level (ft MSL) over the last five years (Figure 2). The water surface elevation for the design event, assuming the water level is at 548 ft prior to the start of the design event, is 552 ft.

Based on the site topography<sup>3</sup>, the water level within the Quarry could rise to approximately 572 ft MSL before discharging. The freeboard after the design event is estimated to be at least 20 ft (572 ft MSL – 552 ft MSL). As the existing freeboard is estimated to be 20 feet (minimum), sufficient storage capacity exists within Quarry to manage the design flood event without discharge.

## 1. REFERENCES

City of Joliet, 2003, Consolidated Storm Water Management, Soil Erosion and Sediment Control and Floodplain Management Regulations.

Angel, James, and Markus, Momcilo, March 2019. Frequency Distributions of Heavy Precipitation in Illinois: Updated Bulletin 70 (Updated Bulletin 70, Illinois State Water Survey).

Angel, James, and Markus, Momcilo, March 2020. Frequency Distributions of Heavy Precipitation in Illinois: Bulletin 75 (Bulletin 75, Illinois State Water Survey).

Technical Release 55 (TR-55), Natural Resources Conservation Service, USDA, 2016, Soil Map, Will County, Illinois, Web Soil Survey, National Cooperative Soil Survey. USDA Natural Resources Conservation Service.

Water Resource Ordinance for Unincorporated Will County.

## ATTACHMENTS

Attachment A: Soil Map from USDA – Natural Resources Conservation Service

Attachment B: Illinois State Water Survey Updated Bulletin 70

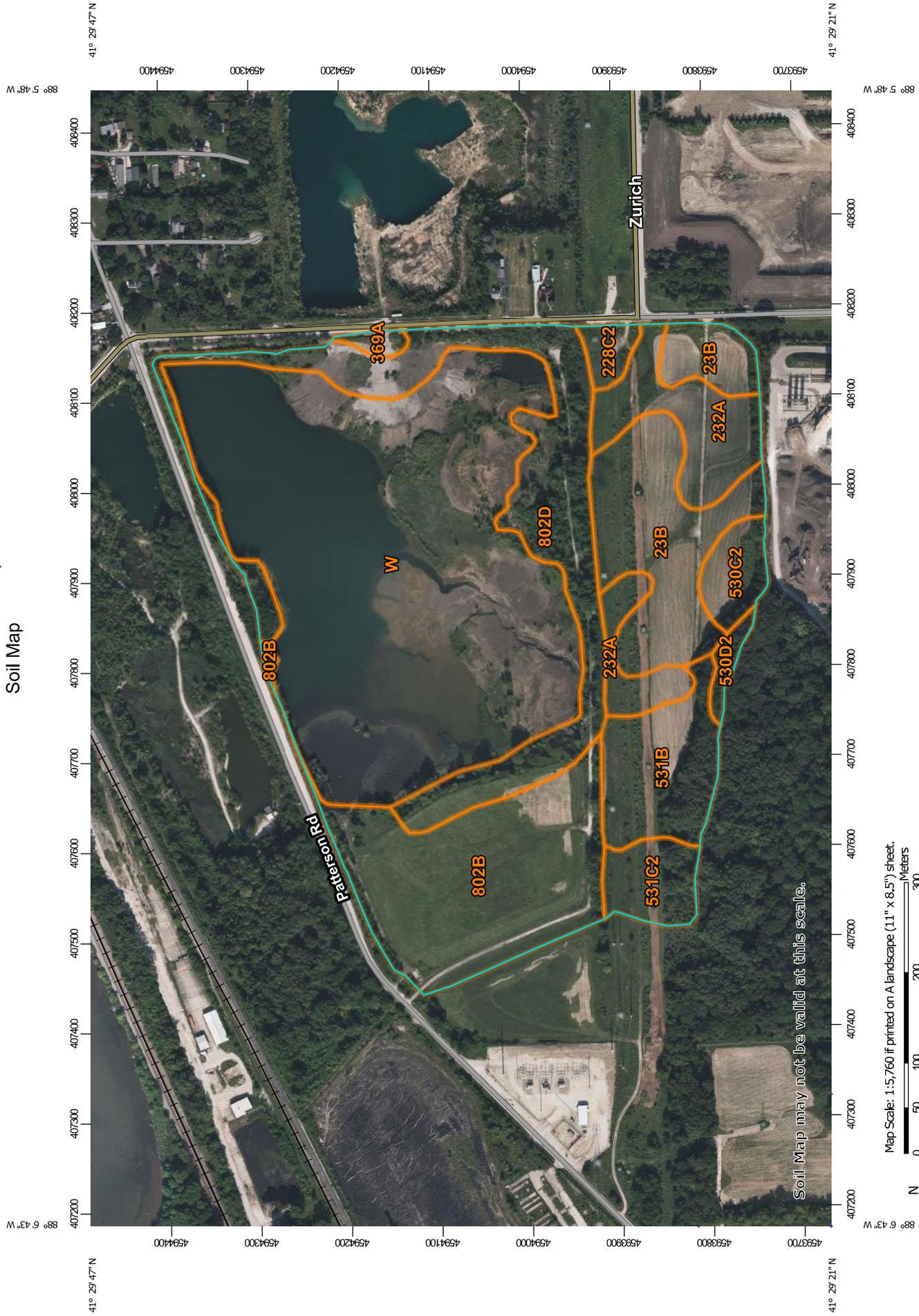
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<sup>3</sup> Topography is dated April 2021, generated by Will County, Illinois Server.

Attachment A

Soil Map from USDA – Natural Resources Conservation Service

# Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.

Map Scale: 1:5,760 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

## MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Soils	 Stony Spot
 Soil Map Unit Polygons	 Very Stony Spot
 Soil Map Unit Lines	 Wet Spot
 Soil Map Unit Points	 Other
 Special Point Features	 Special Line Features
 Blowout	 Streams and Canals
 Borrow Pit	 Rails
 Clay Spot	 Interstate Highways
 Closed Depression	 US Routes
 Gravel Pit	 Major Roads
 Gravelly Spot	 Local Roads
 Landfill	 Aerial Photography
 Lava Flow	
 Marsh or swamp	
 Mine or Quarry	
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Will County, Illinois  
 Survey Area Data: Version 19, Aug 21, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 4, 2020—Jul 6, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
23B	Blount silt loam, Lake Michigan Lobe, 2 to 4 percent slopes	9.4	10.5%
228C2	Nappanee silty clay loam, 4 to 6 percent slopes, eroded	0.8	0.9%
232A	Ashkum silty clay loam, 0 to 2 percent slopes	6.0	6.7%
369A	Waupecan silt loam, 0 to 2 percent slopes	0.4	0.5%
530C2	Ozaukee silt loam, 4 to 6 percent slopes, eroded	1.7	1.9%
530D2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	0.6	0.6%
531B	Markham silt loam, 2 to 4 percent slopes	4.9	5.5%
531C2	Markham silt loam, 4 to 6 percent slopes, eroded	2.2	2.5%
802B	Orthents, loamy, 1 to 6 percent slopes	12.6	14.2%
802D	Orthents, loamy, rolling	12.3	13.8%
W	Water	38.3	42.9%
<b>Totals for Area of Interest</b>		<b>89.1</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties

## Custom Soil Resource Report

and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

## Custom Soil Resource Report

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Attachment B  
Illinois State Water Survey Updated Bulletin 70

# Frequency Distributions of Heavy Precipitation in Illinois: Updated Bulletin 70

James Angel and Momcilo Markus

March 2019

## Results

### Frequency Estimates

To determine the precipitation frequency, the previously described regional frequency analysis was applied to the AMS data. The results were then converted to the PDS domain based on the relationship defined in Eq. 1 and adjusted for the trend (Eq. 3). These results, however, still had occasional minor inconsistencies caused by several factors, such as variable data length for different durations, which resulted in irregular frequency curves. To produce the final curves, these irregularities had to be smoothed out, which was done based on the authors' professional judgment and knowledge of specific regions and gages.

The results for all sections are shown in the following tables. Table 4 displays the key for the codes used in Table 5, where the results are presented numerically. The results are shown graphically in Figures 8–12.

*Table 4 Storm and Sectional Codes for Table 5*

<i>Storm Code</i>		<i>Sectional Code</i>	
1	240 hours	1	Northwest
2	120 hours	2	Northeast
3	72 hours	3	West
4	48 hours	4	Central
5	24 hours	5	East
6	18 hours	6	West Southwest
7	12 hours	7	East Southeast
8	6 hours	8	Southwest
9	3 hours	9	Southeast
10	2 hours	10	South
11	1 hour		

Table 5 (continued)

<i>Rainfall (inches) for given recurrence interval</i>								
<i>Storm code</i>	<i>Section code</i>	<i>2-year</i>	<i>5-year</i>	<i>10-year</i>	<i>25-year</i>	<i>50-year</i>	<i>100-year</i>	<i>500-year</i>
4	1	3.61	4.59	5.43	6.72	7.73	8.83	11.53
4	2	3.66	4.71	5.62	6.99	8.13	9.28	12.10
4	3	3.76	4.76	5.62	6.81	7.72	8.60	10.58
4	4	3.59	4.61	5.47	6.65	7.55	8.40	10.21
4	5	3.54	4.49	5.32	6.48	7.38	8.27	10.26
4	6	3.66	4.61	5.38	6.48	7.33	8.11	9.93
4	7	3.92	4.85	5.61	6.67	7.46	8.21	9.76
4	8	4.28	5.29	6.10	7.25	8.15	9.08	11.40
4	9	4.64	5.54	6.27	7.24	7.94	8.58	10.06
4	10	4.06	5.02	5.86	7.04	8.01	9.02	11.56
5	1	3.34	4.22	5.03	6.20	7.20	8.25	10.84
5	2	3.34	4.30	5.15	6.45	7.50	8.57	11.24
5	3	3.48	4.45	5.24	6.38	7.25	8.06	9.91
5	4	3.32	4.30	5.10	6.20	7.05	7.85	9.53
5	5	3.12	3.97	4.71	5.78	6.62	7.43	9.32
5	6	3.23	4.07	4.76	5.79	6.56	7.31	9.04
5	7	3.49	4.33	5.00	5.98	6.71	7.40	8.84
5	8	3.69	4.56	5.27	6.30	7.14	7.96	10.06
5	9	4.07	4.89	5.55	6.42	7.06	7.68	8.99
5	10	3.63	4.52	5.28	6.38	7.29	8.23	10.57
6	1	3.14	3.97	4.73	5.83	6.77	7.75	10.19
6	2	3.14	4.04	4.84	6.06	7.05	8.06	10.57
6	3	3.27	4.18	4.93	6.00	6.82	7.58	9.32
6	4	3.12	4.04	4.79	5.83	6.63	7.38	8.96
6	5	2.93	3.73	4.43	5.43	6.22	6.98	8.76
6	6	3.04	3.83	4.47	5.44	6.17	6.87	8.50
6	7	3.28	4.07	4.70	5.62	6.31	6.96	8.31
6	8	3.47	4.29	4.95	5.92	6.71	7.48	9.45
6	9	3.83	4.60	5.22	6.03	6.64	7.22	8.45
6	10	3.41	4.25	4.96	6.00	6.85	7.73	9.93

Table 6 Precipitation Frequency Estimates (in inches) with 90% Confidence Intervals (continued)

Storm Code	Section Code	Recurrence interval						
		2-year	5-year	10-year	25-year	50-year	100-year	500-year
5	1	<b>3.34</b> ( 3.00 - 3.69 )	<b>4.22</b> ( 3.79 - 4.68 )	<b>5.03</b> ( 4.50 - 5.61 )	<b>6.20</b> ( 5.51 - 6.99 )	<b>7.20</b> ( 6.34 - 8.21 )	<b>8.25</b> ( 7.20 - 9.54 )	<b>10.84</b> ( 9.16 - 13.00 )
5	2	<b>3.34</b> ( 3.00 - 3.69 )	<b>4.30</b> ( 3.85 - 4.77 )	<b>5.15</b> ( 4.60 - 5.73 )	<b>6.45</b> ( 5.71 - 7.26 )	<b>7.50</b> ( 6.59 - 8.55 )	<b>8.57</b> ( 7.46 - 9.93 )	<b>11.24</b> ( 9.48 - 13.63 )
5	3	<b>3.48</b> ( 3.19 - 3.79 )	<b>4.45</b> ( 4.07 - 4.86 )	<b>5.24</b> ( 4.79 - 5.74 )	<b>6.38</b> ( 5.81 - 7.05 )	<b>7.25</b> ( 6.56 - 8.09 )	<b>8.06</b> ( 7.23 - 9.07 )	<b>9.91</b> ( 8.61 - 11.47 )
5	4	<b>3.32</b> ( 3.01 - 3.65 )	<b>4.30</b> ( 3.89 - 4.74 )	<b>5.10</b> ( 4.61 - 5.64 )	<b>6.20</b> ( 5.58 - 6.91 )	<b>7.05</b> ( 6.31 - 7.93 )	<b>7.85</b> ( 6.99 - 8.92 )	<b>9.53</b> ( 8.31 - 11.16 )
5	5	<b>3.12</b> ( 2.86 - 3.38 )	<b>3.97</b> ( 3.64 - 4.31 )	<b>4.71</b> ( 4.30 - 5.15 )	<b>5.78</b> ( 5.25 - 6.38 )	<b>6.62</b> ( 5.97 - 7.39 )	<b>7.43</b> ( 6.63 - 8.41 )	<b>9.32</b> ( 8.08 - 10.96 )
5	6	<b>3.23</b> ( 2.95 - 3.54 )	<b>4.07</b> ( 3.71 - 4.47 )	<b>4.76</b> ( 4.32 - 5.26 )	<b>5.79</b> ( 5.21 - 6.45 )	<b>6.56</b> ( 5.85 - 7.37 )	<b>7.31</b> ( 6.45 - 8.30 )	<b>9.04</b> ( 7.73 - 10.59 )
5	7	<b>3.49</b> ( 3.18 - 3.80 )	<b>4.33</b> ( 3.93 - 4.74 )	<b>5.00</b> ( 4.53 - 5.50 )	<b>5.98</b> ( 5.39 - 6.64 )	<b>6.71</b> ( 6.00 - 7.54 )	<b>7.40</b> ( 6.54 - 8.42 )	<b>8.84</b> ( 7.58 - 10.44 )
5	8	<b>3.69</b> ( 3.36 - 4.04 )	<b>4.56</b> ( 4.15 - 5.01 )	<b>5.27</b> ( 4.78 - 5.82 )	<b>6.3</b> ( 5.67 - 7.03 )	<b>7.14</b> ( 6.37 - 8.03 )	<b>7.96</b> ( 7.03 - 9.05 )	<b>10.06</b> ( 8.60 - 11.78 )
5	9	<b>4.07</b> ( 3.71 - 4.44 )	<b>4.89</b> ( 4.45 - 5.35 )	<b>5.55</b> ( 5.03 - 6.10 )	<b>6.42</b> ( 5.79 - 7.12 )	<b>7.06</b> ( 6.32 - 7.91 )	<b>7.68</b> ( 6.80 - 8.70 )	<b>8.99</b> ( 7.73 - 10.51 )
5	10	<b>3.63</b> ( 3.29 - 4.00 )	<b>4.52</b> ( 4.08 - 5.01 )	<b>5.28</b> ( 4.73 - 5.88 )	<b>6.38</b> ( 5.66 - 7.21 )	<b>7.29</b> ( 6.36 - 8.36 )	<b>8.23</b> ( 7.07 - 9.59 )	<b>10.57</b> ( 8.67 - 13.03 )

ATTACHMENT C  
2025 ANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE ACTION  
REPORT



ENVIRONMENTAL CONSULTATION & REMEDIATION

---

**KPRG and Associates, Inc.**

**ILLINOIS CCR COMPLIANCE  
ANNUAL GROUNDWATER MONITORING and  
CORRECTIVE ACTION REPORT - 2025**

**Midwest Generation, LLC  
Joliet #9 Generating Station  
Lincoln Stone Quarry  
1800 Channahon Rd.  
Joliet, Illinois**

Prepared By: **KPRG and Associates, Inc.  
14665 West Lisbon Road, Suite 1A  
Brookfield, WI 53005**

January 31, 2026

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2.1 Summary of Actions and Submittals (Section 845.610(e)(2)).....	3
2.2 Groundwater Data Summary (Section 845.610(e)(3)(A-F) .....	4

### TABLES

- 1 – Summary of CCR Groundwater Monitoring Data
- 2 – Proposed Statistical Background Concentrations and Site-specific Groundwater Protection Standards
- 3 – Summary of Groundwater Elevation Measurements
- 4 – Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate
- 5 – Groundwater Sample Collection Summary

### FIGURES

- 1 – CCR Monitoring Network
- 2 – Aerial Distribution Box Plot Map

### ATTACHMENTS

- 1 – Monthly Potentiometric Maps

## 1.0 INTRODUCTION and OVERVIEW

Groundwater monitoring requirements in accordance with the Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments dated April 15, 2021 (State CCR Rule) and subsequent amendments, have been completed for the monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Joliet #9 Generating Station – Lincoln Stone Quarry (LSQ). The wells sampled were selected to meet the monitoring requirements of the State CCR Rule for LSQ. The CCR monitoring well network around this pond consists of ten wells (R08S, G20S, G30S, R32S, G44S, G45S, G46S, G47S, G48S and T03S) as shown on Figure 1. Wells T03S (side-gradient) and G45S are considered background monitoring wells and the remaining wells are considered downgradient wells. All CCR groundwater monitoring data available to date, which includes data from previous groundwater monitoring under the Federal CCR Rule, are provided in Table 1. As part of the Application for Initial Operating Permit – Joliet #9 Generating Station submitted on October 31, 2021 (Application) *proposed* statistical background concentration calculations along with *proposed* site-specific Groundwater Protection Standards (GWPSs) were submitted for Illinois Environmental Protection Agency (Agency) review/approval. Table 3 summarizes the *proposed* background statistical concentrations for each parameter along with the site-specific *Proposed* GWPSs in accordance with Section 845.600(a)(2). These are currently still under review by the Agency and, therefore, are not finalized. However, for the purposes of evaluations required for the annual report, data comparisons will be presented relative to the “*proposed*” values for statistical background concentrations and site-specific GWPSs.

This overview of the 2025 groundwater monitoring period is provided in accordance with Section 845.610(e)(4). Each required item is discussed separately below.

- Section 845.610(e)(4)(A and B) – *Proposed* statistical background concentration calculations (see Table 2) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under Agency review. However, assuming that the Agency accepts the proposed background calculations, the groundwater monitoring since the enactment of the State CCR Rule in April 2021 has identified the following constituents with potential statistically significant increases (SSIs) above the *proposed* background concentrations during 2025 sampling. It is noted that other than those constituents identified in the next main bullet, none of these potential SSI concentrations are above *proposed* site-specific GWPSs. The constituents and associated wells are:
  - Boron – R08S, G20S, G30S, R32S, G44S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
  - Calcium – R08S (1<sup>st</sup> through 2<sup>nd</sup> quarters, 4<sup>th</sup> quarter), T03S, G44S, G48S (4<sup>th</sup> quarter)
  - Fluoride – G20S, G20S, G30S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), G45S (3<sup>rd</sup> and 4<sup>th</sup> quarters)

- pH – R08S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), G30S, G46S (2<sup>nd</sup> through 4<sup>th</sup> quarters), G20S (4<sup>th</sup> quarter)
- Sulfate- G30S, R32S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), R08S (2<sup>nd</sup> and 4<sup>th</sup> quarters), T03S (4<sup>th</sup> quarter)
- TDS – G30S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Arsenic – G45S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Barium – T03S, G44S (1<sup>st</sup> through 4<sup>th</sup> quarters), R08S (1<sup>st</sup> quarter), G46S (2<sup>nd</sup> quarter), G20S (2<sup>nd</sup> and 4<sup>th</sup> quarters), G30S (2<sup>nd</sup> and 3<sup>rd</sup> quarters)
- Cobalt – G20S (4<sup>th</sup> quarter)
- Lithium – R08S, R32S, G46S, G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G20S (2<sup>nd</sup> quarter)
- Molybdenum – T03S, R08S, R32S, G44S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Combined Radium – G20S, G46S (1<sup>st</sup> through 4<sup>th</sup> quarters), G45S, G30S, R32S (2<sup>nd</sup> through 4<sup>th</sup> quarters), T03S (3<sup>rd</sup> quarter), R08S (3<sup>rd</sup> and 4<sup>th</sup> quarters)

Wells G45S and T03S are background monitoring points.

- Section 845.610(e)(4)(C and D) – *Proposed* GWPSs in accordance with Section 845.600(a)(2) (see Table 2) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under review by the Agency. However, assuming that the Agency accepts the *proposed* GWPSs, the groundwater monitoring since the enactment of the State CCR Rule in April 2021 has identified the following constituents above the proposed GWPSs during 2025 sampling:
  - Boron – R08S, G30S, R32S, G46S, G47S, G48S (1<sup>st</sup> and 4<sup>th</sup> quarters)
  - Calcium – R08S (1<sup>st</sup>, 2<sup>nd</sup>, and 4<sup>th</sup> quarters), T03S, G44S, G46S (4<sup>th</sup> quarter)
  - pH – G47S (3<sup>rd</sup> and 4<sup>th</sup> quarters)
  - Sulfate – G30S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), R08S (4<sup>th</sup> quarter)
  - TDS – G30S (1<sup>st</sup> through 4<sup>th</sup> quarters)
  - Arsenic – G46S, G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G48S (4<sup>th</sup> quarters)
  - Lithium – R08S, R32S, G46S, G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G20S (2<sup>nd</sup> quarter)
  - Molybdenum – R08S, R32S, G44S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
  - Combined Radium – G46S (2<sup>nd</sup> quarter)
  - Turbidity – G46S (2<sup>nd</sup> quarter)

Wells G45S and T03S are background monitoring points.

- Section 845.610(e)(4)(E through H) – The LSQ is currently not in corrective action relative to the State CCR Rule. However, as part of IEPA Application for Initial Construction Permit submittal requirements, an engineering evaluation of potential corrective measures and closure alternative options was completed. This evaluation included groundwater modeling to assist in assessing each considered closure option’s effect on addressing groundwater impacts. A public meeting was held on December 8 and 9, 2021 to present the results of the engineering evaluations and obtain public comment/input of the proposed

closure option. The Application for Initial Construction Permit was submitted to IEPA on January 28, 2022 and is currently still under review.

## 2.0 ANNUAL STATUS SUMMARY

As discussed in Section 1.0 the CCR monitoring well network around the LSQ consists of ten monitoring wells (R08S, G20S, G30S, R32S, G44S, G45S, G46S, G47S, G48S and T03S) as shown on Figure 1. Wells T03S (side-gradient) and G45S are considered background monitoring wells and the remaining wells are considered downgradient wells. All CCR groundwater monitoring data available to date, which includes data from previous groundwater monitoring under the Federal CCR Rule, are provided in Table 1. The backup analytical data packages were previously provided as part of the 60-day reporting requirements. Table 3 summarizes the *proposed* background statistical concentrations for each parameter along with the site-specific *Proposed* GWPSs in accordance with Section 845.600(a)(2). These are included as part of the Initial Operating Permit Application referenced above, are currently still under review by the Agency and, therefore, are not finalized. However, for the purposes of evaluations required for this annual report, data comparisons will be presented relative to the “*proposed*” values for statistical background concentrations and site-specific GWPSs.

This section provides the information specified under Section 845.610(e) (2-3).

### 2.1 Summary of Actions and Submittals (Section 845.610(e)(2))

The following key actions have been completed during the 2025 reporting period:

- Quarterly sampling of all parameters specified in Section 845.600(a) plus calcium and turbidity was completed and the associated 60-day data summary submittals were placed in the facility’s operating record in accordance with Section 845.610(b)(3)(D).
- Water levels were recorded monthly for the specified CCR monitoring wells and pond water levels were concurrently recorded for the LSQ.

Key activities for the upcoming year include:

- Receipt of an approved Operating Permit which will facilitate finalization of the *proposed* statistical background concentrations and the *proposed* site-specific GWPSs. Once these are accepted/finalized by the Agency, formal groundwater data comparisons and evaluations can be made based on quarterly monitoring results relative to these comparison criteria.
- Receipt of an approved Construction Permit – Midwest Generation Joliet #9 Station which will facilitate closure and groundwater remedy construction for the Lincoln Stone Quarry.
- Installation of additional assessment monitoring wells in fulfillment of requirements under the Federal CCR Rule. For additional information regarding

these wells, please refer to the Federal CCR Compliance - Nature and Extent of Impacts Evaluation – Lincoln Stone Quarry Annual Groundwater Monitoring and Corrective Action Report - 2025 in the facility’s operating record.

- Continued quarterly groundwater monitoring/reporting.

## 2.2 Groundwater Data Summary (Section 845.610(e)(3)(A-F))

Identification of monitoring wells and associated constituent concentrations above the *proposed* site-specific GWPSs was included in Section 1.0 above. A map for the most recent round of sampling (4<sup>th</sup> quarter 2025) showing these wells and constituent concentrations is provided on Figure 2.

There were no monitoring wells installed or decommissioned during this reporting period relative to the State CCR Rule. It is noted, however, that two additional well installations were completed for the purposes of a nature and extent of impacts delineation under the Federal CCR Rule. Please refer to the Federal CCR Compliance - Nature and Extent of Impacts Evaluation – Lincoln Stone Quarry Annual Groundwater Monitoring and Corrective Action Report – 2025 in the facility’s operating record for further information.

Monthly water levels were recorded from the specified CCR monitoring wells. The water levels are summarized in Table 3. Potentiometric surface maps for each round of water levels are provided in Attachment 1. In accordance with Section 845.640(c)(2), groundwater flow direction and seepage velocity estimates for each round of water levels are provided in Table 4.

A summary of the number of groundwater samples collected for analysis for each CCR monitoring well along with sample dates is provided in Table 5.

*Proposed* statistical background concentration calculations (see Table 2) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under Agency review. However, assuming that the Agency accepts the *proposed* background calculations, the groundwater monitoring over the 2025 reporting period has identified the following constituents with potential statistically significant increases (SSIs) above the proposed background concentrations:

- Boron – R08S, G20S, G30S, R32S, G44S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Calcium – R08S (1<sup>st</sup> through 2<sup>nd</sup> quarters, 4<sup>th</sup> quarter), T03S, G44S, G48S (4<sup>th</sup> quarter)
- Fluoride – G20S, G20S, G30S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), G45S (3<sup>rd</sup> and 4<sup>th</sup> quarters)
- pH – R08S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), G30S, G46S (2<sup>nd</sup> through 4<sup>th</sup> quarters), G20S (4<sup>th</sup> quarter)

- Sulfate- G30S, R32S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters), R08S (2<sup>nd</sup> and 4<sup>th</sup> quarters), T03S (4<sup>th</sup> quarter)
- TDS – G30S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Arsenic – G45S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Barium – T03S, G44S (1<sup>st</sup> through 4<sup>th</sup> quarters), R08S (1<sup>st</sup> quarter), G46S (2<sup>nd</sup> quarter), G20S (2<sup>nd</sup> and 4<sup>th</sup> quarters), G30S (2<sup>nd</sup> and 3<sup>rd</sup> quarters)
- Cobalt – G20S (4<sup>th</sup> quarter)
- Lithium – R08S, R32S, G46S, G47S (1<sup>st</sup> through 4<sup>th</sup> quarters), G20S (2<sup>nd</sup> quarter)
- Molybdenum – T03S, R08S, R32S, G44S, G46S, G47S, G48S (1<sup>st</sup> through 4<sup>th</sup> quarters)
- Combined Radium - G20S, G46S (1<sup>st</sup> through 4<sup>th</sup> quarters), G45S, G30S, R32S (2<sup>nd</sup> through 4<sup>th</sup> quarters), T03S (3<sup>rd</sup> quarter), R08S (3<sup>rd</sup> and 4<sup>th</sup> quarters)

Wells G45S and T03S are background monitoring points. As previously stated, other than those constituents identified in the second bullet in Section 1.0, none of these potential SSI concentrations are above *proposed* site-specific GWPSs.

## **TABLES**

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
G4SS up-gradient	11/20/15	0.81	120	180	0.35	7.20	360	810	< 0.0030	0.0081	0.044	^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.036	< 0.00020	0.012	1.76	< 0.0025	< 0.0020	NA		
	05/12/16	0.68	110	140	0.34	7.37	230	860	< 0.0030	0.0076	0.041	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.036	< 0.00020	0.010	3.01	< 0.0025	< 0.0020	NA		
	06/30/16	0.48	87	110	0.34	7.50	170	670	< 0.0030	0.0075	0.031	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.034	< 0.00020	0.0080	2.05	< 0.0025	< 0.0020	NA		
	08/25/16	0.47	94	100	0.35	7.28	170	790	< 0.0030	0.0076	0.036	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.031	< 0.00020	0.0086	1.91	< 0.0025	< 0.0020	NA		
	11/16/16	0.41	91	90	0.33	7.34	170	620	< 0.0030	0.0079	0.033	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.0094	2.04	< 0.0025	< 0.0020	NA		
	02/14/17	0.43	97	97	0.32	7.36	160	620	< 0.0030	0.0093	0.037	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	< 0.00020	0.0083	1.85	< 0.0025	< 0.0020	NA		
	05/23/17	0.36	85	110	0.35	7.30	150	660	< 0.0030	0.0082	0.033	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00020	0.0093	1.40	< 0.0025	< 0.0020	NA		
	07/07/17	0.42	94	120	< 0.10	7.21	150	600	< 0.0030	0.0086	0.035	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.030	< 0.00020	0.0070	1.88	< 0.0025	< 0.0020	NA		
	09/26/17	0.43	110	130	0.30	7.21	160	790	< 0.0030	0.010	0.040	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	< 0.00020	0.0079	2.14	< 0.0025	< 0.0020	NA		
	11/21/17	0.44	96	110	0.33	7.29	180	700	< 0.0030	0.0094	0.038	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.0072	8.45	< 0.0025	< 0.0020	NA		
	03/09/18	0.38	97	110	0.32	7.18	180	710	< 0.0030	0.0093	0.036	^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	^ < 0.00020	0.0080	1.89	< 0.0025	< 0.0020	NA		
	05/21/18	0.76	110	150	0.33	7.00	230	970	NA	0.0072	0.047	NA	NA	NA	< 0.0010	< 0.00050	0.033	NA	0.013	2.37	< 0.0025	NA	NA		
	12/07/18	0.46	91	120	0.33	7.02	100	740	NA	0.0090	0.034	NA	NA	NA	< 0.0010	< 0.00050	0.031	NA	0.010	1.91	< 0.0025	NA	NA		
	06/28/19	0.39	96	130	0.33	7.51	120	720	NA	0.010	0.039	NA	NA	NA	< 0.0010	< 0.00050	0.032	NA	0.0087	1.99	< 0.0025	NA	NA		
	11/14/19	0.48	110	170	0.33	7.33	170	830	NA	< 0.010	0.042	NA	NA	NA	< 0.0010	< 0.00050	0.034	NA	0.010	2.89	< 0.010	NA	NA		
	06/26/20	0.62	130	220	0.33	7.21	240	970	NA	0.011	0.049	NA	NA	NA	< 0.0010	< 0.00050	0.039	NA	0.0088	3.1	< 0.0025	NA	NA		
	12/11/20	0.70	120	180	0.38	7.16	220	760	NA	0.014	0.042	NA	NA	NA	< 0.0010	^ < 0.00050	0.038	NA	0.012	1.88	< 0.0025	NA	NA		
	03/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87	
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.33
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54
	5/18/2021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36
	06/28/21	0.44	91	110	0.35	7.20	150	680	< 3.0	0.010	0.034	< 1.0	< 0.50	< 5.0	< 0.0010	< 0.00050	0.031	< 0.00020	0.0083	2.14	< 0.0025	< 2.0	0.64		
	07/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.40
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.56
	09/23/21	0.39	85	110	0.35	7.43	140	690	< 0.0030	0.010	0.36	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.030	< 0.00020	0.0076	2.77	< 0.0025	< 0.0020	0.46		
	12/16/21	0.34	84	87	0.36	7.35	130	510	< 0.0030	0.0092	0.037	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.0073	1.74	< 0.0025	< 0.0020	0.89		
	03/16/22	< 0.50	130	86	0.36	7.35	130	700	< 0.0030	0.0018	0.035	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.075	< 0.00020	0.0092	2.92	< 0.0025	< 0.0020	0.98		
	06/10/22	0.34	84	110	0.35	7.28	130	630	< 0.0030	0.0082	0.036	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.0072	2.17	< 0.0025	< 0.0020	0.63		
	09/26/22	0.48	97	150	0.35	7.14	180	830	< 0.0030	0.0086	0.042	1+ ^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	< 0.00020	0.011	2.63	< 0.0025	< 0.0020	0.29		
	12/21/22	0.39	110	190	0.72	7.06	190	920	< 0.0030	0.010	0.050	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	< 0.00020	0.0089	2.91	< 0.0025	< 0.0020	2.04		
	03/23/23	0.41	91	130	0.35	7.30	160	740	< 0.0030	0.010	0.040	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.030	< 0.00020	0.011	2.28	< 0.0025	< 0.0020	1.13		
	06/30/23	0.44	89	120	0.36	7.23	150	610	< 0.0030	0.0094	0.038	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.031	< 0.00020	0.012	2.05	< 0.0025	< 0.0020	0.42		
	09/14/23	0.46	67	120	0.36	7.35	F1 150	600	< 0.0020	0.010	0.033	< 0.0010	< 0.00020	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.026	< 0.00020	0.013	1.95	< 0.0050	< 0.0010	0.97	
	12/20/23	0.50	81	130	0.35	7.48	160	680	^1+ < 0.0030	0.010	0.036	^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.012	2.16	< 0.0025	< 0.0020	1.74		
	03/12/24	0.39	84	110	0.36	7.49	150	640	^1+ < 0.0030	0.0087	0.035	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.013	2.46	< 0.0025	< 0.0020	0.58		
	06/12/24	0.29	84	100	0.38	7.35	150	660	< 0.0030	0.0089	0.033	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.026	< 0.00020	0.010	1.76	< 0.0025	< 0.0020	0.79		
	08/23/24	0.45	96	120	0.31	7.30	150	700	< 0.0030	0.0080	0.036	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00020	0.0084	1.42	< 0.0025	< 0.0020	3.09		
	11/26/24	0.52	110	130	0.36	7.31	160	850	< 0.0030	0.0084	0.045	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00020	0.011	2.30	< 0.0025	< 0.0020	1.75		
	03/26/25	0.38	92	120	0.37	7.41	160	710	< 0.0030	0.0088	0.038	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.012	1.64	< 0.0025	< 0.0020	0.61		
	06/12/25	0.45	87	130	0.37	7.26	160	710	< 0.0030	0.0081	0.038	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.012	2.17	< 0.0025	< 0.0020	0.78		
	09/18/25	0.46	96	130	0.40	7.34	160	720	< 0.0030	0.0090	0.041	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.013	2.64	< 0.0025	< 0.0020	0.61		
	12/26/25	0.39	95	95	0.41	7.29	170	690	< 0.0030	0.0088	0.038	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.013	2.03	< 0.0025	< 0.0020	0.16		

Notes: All units are in mg/L with the exception of Radium (pCi/L).

B = Component was found in blank and sample.

H = Sample prep'd or analyzed past holding time.

NA = Not Analyzed. No confirmation sample required.

F1 = MS and/or MSD Recovery outside of limits.

^ = Continuing calibration verification outside limits. High bias.

^1+ = Initial verification calibration outside of limits, biased high.

^1 = Sample related QC exceeds the control limits.

\* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
T03S up-gradient	11/23/15	6.9	130	77	0.19	7.80	520	740	< 0.0030	0.0019	0.052	^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.14	< 0.00020	0.41	1.608	0.0061	< 0.0020	NA		
	11/19/15	0.52	110	75	0.22	7.07	250	710	< 0.0030	0.0019	0.063	^ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.019	< 0.00020	0.026	1.101	< 0.0025	< 0.0020	NA		
	05/05/16	0.84	100	100	0.21	7.16	190	820	< 0.0030	0.0015	0.084	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.018	< 0.00020	0.030	1.43	< 0.0025	< 0.0020	NA		
	06/28/16	0.98	100	94	0.19	7.30	180	910	< 0.0030	0.0011	0.086	< 0.0010	< 0.00050	< 0.00050	0.0011	< 0.00050	0.017	< 0.00020	0.037	1.18	< 0.0025	< 0.0020	NA		
	08/25/16	1.1	110	99	0.20	7.32	180	880	< 0.0030	< 0.0010	0.086	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.016	< 0.00020	0.043	1.54	< 0.0025	< 0.0020	NA		
	11/17/16	1.3	120	100	0.19	7.14	150	860	< 0.0030	0.0012	0.096	< 0.0010	< 0.00050	< 0.00050	0.0012	< 0.00050	0.022	< 0.00020	0.14	1.61	< 0.0025	< 0.0020	NA		
	02/25/17	1.0	98	110	0.19	7.36	230	810	< 0.0030	0.0011	0.086	< 0.0010	< 0.00050	< 0.00050	0.0013	< 0.00050	< 0.050	< 0.00020	0.12	0.938	< 0.0025	< 0.0020	NA		
	05/22/17	1.4	110	78	0.23	7.25	160	740	< 0.0030	0.0017	B 0.088	^ < 0.0010	< 0.00050	< 0.00050	0.0015	0.0020	0.019	< 0.00020	0.13	1.21	< 0.0025	< 0.0020	NA		
	07/07/17	1.1	100	F1 71	< 0.10	7.32	180	710	< 0.0030	< 0.0010	0.078	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.019	< 0.00020	0.099	1.11	< 0.0025	< 0.0020	NA		
	09/26/17	1.3	110	80	0.21	7.19	240	790	< 0.0030	0.0011	0.086	< 0.0010	< 0.00050	< 0.00050	0.0013	< 0.00050	0.018	< 0.00020	0.14	1.33	< 0.0025	< 0.0020	NA		
	11/20/17	1.7	98	90	0.24	7.13	230	770	< 0.0030	0.0014	0.087	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.020	< 0.00020	0.20	1.59	< 0.0025	< 0.0020	NA		
	03/07/18	1.5	110	110	0.23	7.34	250	900	< 0.0030	0.0023	0.093	< 0.0010	< 0.00050	< 0.00050	0.0013	< 0.00050	0.022	< 0.00020	0.26	1.30	< 0.0025	< 0.0020	NA		
	05/17/18	1.8	100	82	0.24	7.07	210	890	NA	0.0010	0.087	NA	NA	NA	0.0013	< 0.00050	0.021	NA	0.24	1.25	< 0.0025	NA	NA		
	12/11/18	1.8	100	140	0.23	6.96	160	890	NA	0.0014	0.095	NA	NA	NA	0.0012	< 0.00050	0.021	NA	0.27	1.31	< 0.0025	NA	NA		
	06/24/19	2.7	100	89	0.27	7.17	260	830	NA	0.0020	0.090	NA	NA	NA	0.0010	< 0.00050	0.027	NA	0.37	1.33	< 0.0025	NA	NA		
	10/28/19	1.5	100	73	0.25	7.19	< 300	780	NA	< 0.010	0.088	NA	NA	NA	0.0011	< 0.00050	0.026	NA	0.21	1.38	< 0.010	NA	NA		
	06/23/20	2.3	97	74	0.33	7.28	240	770	NA	0.0024	0.093	NA	NA	NA	< 0.0010	< 0.00050	0.025	NA	0.23	1.65	< 0.0025	NA	NA		
	12/15/20	1.4	140	F1 170	0.27	7.01	280	960	NA	0.0013	0.11	NA	NA	NA	0.0015	< 0.00050	0.031	NA	0.14	1.74	< 0.0025	NA	NA		
	03/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	
	04/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.44
	04/22/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94
	05/17/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47
	06/07/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47
	06/22/21	0.92	120	130	0.23	6.94	220	980	< 0.0030	0.0016	0.085	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	H < 0.00020	0.071	1.34	< 0.0025	< 0.0020	NA		
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34
	09/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.67
	09/20/21	1.2	110	110	0.21	7.45	250	640	< 0.0030	0.0014	0.083	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.029	< 0.00020	0.12	1.31	< 0.0025	< 0.0020	NA		
	12/09/21	2.4	130	110	0.23	7.48	F1 280	870	< 0.0030	0.0011	0.085	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.026	< 0.00020	0.22	1.44	< 0.0025	< 0.0020	0.56		
	03/14/22	3.6	31	110	0.22	7.37	280	1000	< 0.0030	0.016	0.041	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.032	< 0.00020	0.93	1.44	< 0.0025	< 0.0020	0.65		
	06/13/22	1.7	130	160	0.21	7.44	260	980	< 0.0030	0.0015	0.11	< 0.0010	< 0.00050	< 0.00050	0.0014	< 0.00050	0.025	< 0.00020	0.17	1.46	< 0.0025	< 0.0020	4.10		
	09/26/22	2.2	110	110	0.21	7.00	260	810	< 0.0030	0.0014	0.084	^+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.22	1.12	< 0.0025	< 0.0020	0.53		
	12/21/22	2.9	110	91	0.52	7.44	300	960	< 0.0030	0.0011	0.081	< 0.0010	< 0.00050	< 0.00050	0.0012	< 0.00050	0.028	< 0.00020	0.34	1.16	< 0.0025	< 0.0020	2.03		
	03/20/23	3.0	110	100	0.21	7.22	320	890	< 0.0030	0.0011	0.079	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.033	< 0.00020	0.32	1.06	< 0.0025	< 0.0020	1.19		
	06/30/23	2.1	120	120	0.20	7.40	230	850	< 0.0030	0.0021	0.077	^+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.031	< 0.00020	0.16	2.17	< 0.0025	< 0.0020	0.39		
	09/13/23	1.7	130	130	0.20	7.56	220	910	< 0.0020	< 0.0020	0.080	< 0.0010	< 0.00020	< 0.00050	0.0010	< 0.00050	0.026	< 0.00020	0.14	1.07	< 0.0050	< 0.0010	0.22		
	12/12/23	1.7	120	120	0.18	7.42	220	940	< 0.0030	< 0.0010	0.075	< 0.0010	< 0.00050	< 0.00050	0.0011	< 0.00050	0.024	< 0.00020	0.14	1.54	< 0.0025	< 0.0020	1.23		
	03/12/24	B 1.8	120	120	0.21	7.50	230	890	^+ < 0.0030	0.0062	0.077	^+ < 0.0010	< 0.00050	< 0.00050	0.0010	< 0.00050	0.027	< 0.00020	0.16	2.18	< 0.0025	< 0.0020	3.37		
	06/21/24	1.3	100	120	0.21	7.23	190	970	< 0.0030	< 0.0010	0.064	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.017	< 0.00020	0.10	1.07	< 0.0025	< 0.0020	1.05		
	09/04/24	1.3	130	120	0.17	7.58	190	850	< 0.0030	< 0.0010	0.076	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.025	< 0.00020	0.11	1.11	< 0.0025	< 0.0020	1.57		
	11/27/24	0.47	120	110	0.18	7.52	140	840	< 0.0030	0.0010	0.067	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.018	< 0.00020	0.034	1.01	< 0.0025	< 0.0020	0.99		
	03/24/25	0.52	120	110	0.21	7.36	190	910	< 0.0030	< 0.0010	0.065	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.020	< 0.00020	0.034	1.25	< 0.0025	< 0.0020	0.64		
	06/16/25	0.44	110	120	0.21	7.07	170	800	< 0.0030	< 0.0010	0.055	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.022	1.28	< 0.0025	< 0.0020	0.38		
	09/10/25	0.38	110	75	0.22	7.13	210	810	< 0.0030	< 0.0010	0.053	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.022	3.52	< 0.0025	< 0.0020	0.46		
	12/23/25	0.58	140	61	0.22	7.06	400	980	< 0.0030	0.0015	0.060	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.034	< 0.00020	0.047	1.45	< 0.0025	< 0.0020	6.09		

Notes: All units are in mg/L with the exception of Radium (pCi/L).

B = Compound was found in blank and sample.

H = Sample prepped or analyzed past holding time.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
ROBS down-gradient	11/23/15	6.9	130	77	0.19	7.80	520	740	< 0.0030	0.0019	0.052	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.41	1.608	0.0061	< 0.0020	NA		
	05/06/16	6.1	120	80	0.19	7.70	380	820	< 0.0030	0.0013	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.39	1.08	0.0079	< 0.0020	NA		
	06/28/16	6.8	130	89	0.18	7.49	320	860	< 0.0030	0.0019	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.37	1.87	F1 0.0074	< 0.0020	NA		
	08/25/16	6.3	120	84	0.19	7.54	350	890	< 0.0030	0.0015	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.33	1.50	0.0032	< 0.0020	NA		
	11/21/16	6.4	120	86	0.17	7.53	280	790	< 0.0030	0.0016	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.36	2.13	0.0037	< 0.0020	NA		
	02/14/17	5.4	150	220	0.17	7.60	280	1,000	< 0.0030	0.0020	0.081	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.12	< 0.00020	0.30	2.71	0.0029	< 0.0020	NA		
	05/25/17	12	250	90	0.17	7.56	340	830	< 0.0060	0.0028	0.092	^ < 0.0020	< 0.0010	< 0.010	< 0.0020	< 0.0010	0.25	< 0.00020	0.64	0.821	0.021	< 0.0040	NA		
	07/06/17	6.3	140	87	0.17	7.62	350	830	< 0.0030	0.0020	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	^ < 0.00050	0.14	< 0.00020	0.35	1.15	0.0054	^ < 0.0020	NA		
	09/25/17	7.3	140	81	0.15	7.57	390	840	< 0.0030	0.0020	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.38	1.27	0.0079	< 0.0020	NA		
	11/21/17	7.3	130	89	0.15	7.05	380	800	< 0.0030	0.0017	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.34	1.09	0.015	< 0.0020	NA		
	03/08/18	7.4	150	83	0.14	8.62	420	850	< 0.0030	0.0016	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.15	< 0.00020	0.37	1.55	0.012	< 0.0020	NA		
	05/18/18	7.7	140	82	0.14	8.25	320	920	NA	0.0013	0.046	NA	NA	NA	< 0.0010	< 0.00050	0.15	NA	0.35	1.22	0.017	NA	NA		
	12/13/18	7.7	140	79	0.15	8.11	240	800	NA	0.0012	0.046	NA	NA	NA	< 0.0010	< 0.00050	0.15	NA	0.37	1.450	0.017	NA	NA		
	06/19/19	8.5	140	83	0.14	8.10	360	820	NA	0.0013	0.044	NA	NA	NA	< 0.0010	< 0.00050	0.16	NA	0.37	1.5	0.015	NA	NA		
	11/11/19	6.4	140	84	0.15	7.91	360	730	NA	< 0.010	0.044	NA	NA	NA	< 0.0010	< 0.00050	0.15	NA	0.34	1.31	0.013	NA	NA		
	06/26/20	7.9	140	83	0.15	8.52	370	750	NA	0.0011	0.043	NA	NA	NA	< 0.0010	< 0.00050	0.14	NA	0.36	1.68	0.017	NA	NA		
	12/14/20	8.0	130	88	0.18	8.15	400	700	NA	0.0015	0.040	NA	NA	NA	< 0.0010	< 0.00050	0.14	NA	0.38	1.53	0.0081	NA	NA		
	03/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19	
	04/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.24
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20
	06/23/21	7.6	140	79	0.16	8.07	430	810	< 0.0030	0.0011	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.15	H < 0.00020	0.37	1.46	0.011	< 0.0020	NA		
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.58
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42
	09/27/21	0.41	150	80	0.15	8.27	430	740	< 0.0030	0.0015	0.042	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.0079	< 0.00020	0.40	1.23	0.013	< 0.0020	NA		
	12/14/21	7.8	150	77	0.15	8.37	410	830	< 0.0030	< 0.0010	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.39	1.81	0.012	< 0.0020	0.57		
	03/11/22	7.7	130	75	0.16	8.21	420	840	< 0.0030	0.0014	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.37	2.33	0.0027	< 0.0020	0.52		
	06/07/22	8.7	150	72	0.14	7.94	420	800	< 0.0030	0.0014	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.15	< 0.00020	0.40	1.33	0.012	< 0.0020	0.23		
	09/19/22	8.4	140	79	0.14	8.47	430	780	< 0.0030	0.0013	0.038	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.15	< 0.00020	0.39	1.63	0.015	< 0.0020	0.36		
	12/19/22	8.7	140	81	0.15	8.91	370	750	< 0.0030	0.0010	0.041	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.37	1.9	0.010	< 0.0020	1.01		
	05/22/23	7.6	150	77	0.15	8.39	450	880	< 0.0030	0.0012	0.043	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.16	< 0.00020	0.40	1.68	0.011	< 0.0020	1.41		
	06/28/23	8.9	150	77	0.13	7.87	400	750	< 0.0030	0.0013	0.041	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.16	< 0.00020	0.38	1.44	0.013	< 0.0020	0.34		
	09/07/23	7.0	130	81	0.13	8.05	410	760	< 0.0080	< 0.0020	0.036	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	0.13	< 0.00020	0.34	0.950	0.0062	< 0.0040	0.15		
	12/20/23	8.5	130	75	0.11	7.79	390	800	^1+ < 0.0030	0.0013	0.043	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.34	2.06	0.0066	< 0.0020	3.33		
	02/29/24	8.2	140	71	0.13	7.96	400	770	^1+ < 0.0030	0.0010	0.041	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.16	< 0.00020	0.36	1.91	0.011	< 0.0020	0.64		
	06/19/24	8.1	140	71	0.12	7.87	400	800	< 0.0030	0.0010	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.33	2.18	0.012	< 0.0020	0.40		
	08/27/24	8.9	140	69	0.11	7.98	410	770	^1+ < 0.0030	0.0012	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.16	< 0.00020	0.40	1.65	0.010	< 0.0020	0.74		
	11/20/24	8.0	140	67	0.11	7.86	380	800	< 0.0150	0.0010	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.15	< 0.00020	0.33	1.43	0.0049	< 0.0020	0.41		
	03/24/25	6.1	140	64	0.14	0.53	320	F1 760	< 0.0030	0.0014	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.24	1.47	0.0084	< 0.0020	0.52		
	06/13/25	8.6	140	70	0.10	8.18	390	750	< 0.0030	0.0018	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.14	< 0.00020	0.30	1.64	0.0026	< 0.0020	0.63		
	09/16/25	7.6	130	81	0.14	7.70	360	840	< 0.0030	0.0021	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.12	< 0.00020	0.27	2.49	0.0028	< 0.0020	0.61		
	12/23/25	8.1	140	76	0.12	8.07	460	720	< 0.0030	0.0020	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.33	2.43	< 0.0025	< 0.0020	0.46		

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 \* = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
G205 down-gradient	11/19/15	1.2	59	12	0.82	7.73	110	410	< 0.0030	< 0.0010	0.049	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.036	< 0.00020	0.0068	2.078	< 0.0025	< 0.0020	NA		
	05/11/16	1.2	53	12	0.81	7.52	77	410	< 0.0030	< 0.0010	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.037	0.0027	0.011	2.52	< 0.0025	< 0.0020	NA		
	06/29/16	1.2	54	12	0.82	7.38	69	460	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	0.011	< 0.00050	0.040	< 0.00020	0.014	2.79	< 0.0025	< 0.0020	NA		
	08/23/16	1.3	56	13	0.81	7.41	67	420	< 0.0030	< 0.0010	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.039	< 0.00020	0.017	3.67	< 0.0025	< 0.0020	NA		
	11/17/16	1.3	59	11	0.74	7.44	55	420	< 0.0030	< 0.0010	0.056	< 0.0010	< 0.00050	< 0.0050	0.0018	< 0.00050	0.042	< 0.00020	0.019	1.98	< 0.0025	< 0.0020	NA		
	02/13/17	1.2	54	13	0.69	7.30	93	400	< 0.0030	< 0.0010	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.018	2.44	< 0.0025	< 0.0020	NA		
	05/24/17	1.3	55	12	0.81	7.45	66	430	< 0.0030	< 0.0010	0.046	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	0.017	2.15	< 0.0025	< 0.0020	NA		
	07/05/17	1.3	61	12	0.76	7.37	70	400	< 0.0030	< 0.0010	0.054	< 0.0010	< 0.00050	< 0.0050	0.0221	^ < 0.00050	0.040	< 0.00020	0.019	1.83	< 0.0025	^ < 0.0020	NA		
	09/25/17	1.3	60	12	0.78	7.30	76	440	< 0.0030	< 0.0010	0.055	< 0.0010	< 0.00050	< 0.0050	0.015	^ < 0.00050	0.036	< 0.00020	0.022	2.19	< 0.0025	< 0.0020	NA		
	11/20/17	1.3	59	13	0.78	7.06	85	390	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	0.022	< 0.00050	0.041	< 0.00020	0.021	2.50	< 0.0025	< 0.0020	NA		
	03/06/18	1.4	63	12	0.76	7.32	88	460	< 0.0030	< 0.0010	0.049	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.042	< 0.00020	0.021	2.83	< 0.0025	< 0.0020	NA		
	05/16/18	1.2	61	12	0.75	7.06	87	410	NA	< 0.0010	0.049	NA	NA	NA	0.0024	^ < 0.00050	0.040	NA	0.019	2.12	< 0.0025	NA	NA		
	12/07/18	1.2	58	12	0.76	7.41	65	480	NA	< 0.0010	0.048	NA	NA	NA	0.0010	< 0.00050	0.042	NA	0.023	2.26	< 0.0025	NA	NA		
	06/18/19	1.3	62	13	0.75	7.18	65	440	NA	< 0.0010	0.051	NA	NA	NA	0.0018	< 0.00050	0.041	NA	0.017	2.11	< 0.0025	NA	NA		
	11/05/19	1.2	58	13	0.74	7.88	71	410	NA	< 0.0010	0.050	NA	NA	NA	0.0023	< 0.00050	0.044	NA	0.021	1.74	< 0.010	NA	NA		
	06/24/20	1.3	58	13	0.79	7.81	63	360	NA	< 0.0010	0.045	NA	NA	NA	< 0.0010	< 0.00050	0.038	NA	0.019	2.07	< 0.0025	NA	NA		
	12/11/20	1.4	61	14	0.89	7.41	69	390	NA	< 0.0010	0.043	NA	NA	NA	< 0.0010	^ < 0.00050	0.042	NA	0.022	2.16	< 0.0025	NA	NA		
	03/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.32	
	04/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29
	04/22/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.63
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.20
	06/23/21	1.3	60	14	0.77	7.46	70	390	< 0.0030	< 0.0010	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.047	H < 0.00020	0.022	2.06	< 0.0025	< 0.0020	NA		
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.32
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48
	09/23/21	1.3	57	14	0.76	7.79	69	320	< 0.0030	< 0.0010	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.042	< 0.00020	0.024	1.97	< 0.0025	< 0.0020	NA		
	12/10/21	1.4	60	14	0.77	8.33	69	360	< 0.0030	0.0019	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.041	< 0.00020	0.025	2.26	< 0.0025	< 0.0020	1.28		
	03/15/22	1.4	110	15	0.75	7.49	74	500	< 0.0030	0.0010	0.083	< 0.0010	< 0.00050	< 0.0050	0.0010	< 0.00050	0.025	< 0.00020	0.28	2.34	< 0.0025	< 0.0020	0.46		
	06/07/22	1.3	60	15	0.76	7.07	71	400	< 0.0030	< 0.0010	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.016	3.55	< 0.0025	< 0.0020	0.50		
	09/19/22	1.4	58	17	0.78	7.58	55 F1	410	< 0.0030	0.0017	0.090	< 0.0010	< 0.00050	< 0.0050	0.014	< 0.00050	0.039	< 0.00020	0.012	7.79	< 0.0025	< 0.0020	2.47		
	11/08/22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/22	1.3	59	15	0.95	7.06	57	410	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	0.0091	3.08	< 0.0025	< 0.0020	2.61		
	03/14/23	1.3	62	16	0.75	7.53	64	410	< 0.0030	< 0.0010	0.050	< 0.0010	< 0.00050	< 0.0050	0.0015	< 0.00050	0.042	< 0.00020	0.010	3.06	< 0.0025	< 0.0020	0.39		
	06/28/23	1.4	65	16	0.78	7.2	57	380	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.042	< 0.00020	0.012	3.40	< 0.0025	< 0.0020	0.25		
	09/06/23	1.2	57	18	0.77	7.47	62	400	< 0.0020	< 0.0020	0.043	< 0.0010	< 0.00020	< 0.00050	< 0.00050	< 0.00050	0.033	< 0.00020	0.012	2.26	< 0.0050	< 0.0010	1.17		
	12/11/23	1.3	54	16	0.72	7.36	67	420	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.014	2.76	< 0.0025	< 0.0020	1.40		
	02/29/24	1.3	63	17	0.79	7.61	65	370	^1+ < 0.0030	< 0.0010	0.049	^1+ < 0.0010	< 0.00050	< 0.0050	0.011	< 0.00050	0.042	< 0.00020	0.016	2.51	< 0.0025	< 0.0020	4.18		
	06/18/24	1.2	56	17	0.79	7.52	63	410	< 0.0030	0.0013	0.044	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.037	< 0.00020	0.015	2.64	< 0.0025	< 0.0020	0.80		
	08/23/24	1.3	62	16	0.73	7.18	64	400	^1+ < 0.0030	< 0.0010	0.046	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.020	2.11	< 0.0025	< 0.0020	0.39		
	11/20/24	1.1	58	14	0.77	7.51	59	430	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.039	< 0.00020	0.017	2.01	< 0.0025	< 0.0020	0.77		
	03/21/25	1.2	60	16	0.80	7.48	65	390	< 0.0030	< 0.0010	0.047	< 0.0010	< 0.00050	< 0.0050	^ < 0.0010	< 0.00050	0.040	< 0.00020	0.018	2.26	< 0.0025	< 0.0020	2.39		
	06/11/25	1.3	58	17	0.76	7.51	64	400	< 0.0030	< 0.0010	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.018	3.00	< 0.0025	< 0.0020	0.27		
	09/16/25	1.2	57	17	0.84	7.43	64	370	< 0.0030	< 0.0010	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.015	2.37	< 0.0025	< 0.0020	0.41		
	12/22/25	1.1	67	16	0.85	7.63	74	380	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	0.0011	< 0.00050	0.040	< 0.00020	0.015	2.37	< 0.0025	< 0.0020	0.79		

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 \* = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
G30S down-gradient	11/20/15	5.8	63	190	1.3	7.46	580	1000	< 0.0030	0.014	0.041	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.33	1.484	< 0.0025	< 0.0020	NA		
	05/30/16	5.4	53	190	1.3	7.68	390	1100	< 0.0030	0.017	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.30	1.41	< 0.0025	< 0.0020	NA		
	06/30/16	5.2	60	F1 180	1.3	7.73	410	990	< 0.0030	0.013	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.30	1.73	< 0.0025	< 0.0020	NA		
	08/25/16	5.7	59	F1 180	1.3	7.70	390	1100	< 0.0030	0.015	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.020	< 0.00020	0.31	1.87	< 0.0025	< 0.0020	NA		
	11/18/16	6.4	57	170	1.2	8.04	320	1100	< 0.0030	0.016	0.043	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.33	2.36	< 0.0025	< 0.0020	NA		
	02/14/17	5.4	62	190	1.2	7.70	450	1000	< 0.0030	0.011	0.042	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.021	< 0.00020	0.24	1.84	< 0.0025	< 0.0020	NA		
	05/25/17	11	110	180	1.4	7.67	430	1100	< 0.0060	0.019	0.078	^ < 0.0020	< 0.0010	< 0.010	< 0.0020	< 0.0010	0.040	< 0.00020	0.45	1.76	< 0.0050	< 0.0040	NA		
	07/07/17	6.6	54	190	1.3	7.48	410	1100	< 0.0030	0.011	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.26	1.59	< 0.0025	< 0.0020	NA		
	09/26/17	6.7	62	190	1.3	8.07	460	1100	< 0.0030	0.011	0.041	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.20	1.41	< 0.0025	< 0.0020	NA		
	11/20/17	6.1	52	210	1.3	7.77	440	1100	< 0.0030	0.010	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.019	< 0.00020	0.19	1.73	< 0.0025	< 0.0020	NA		
	03/07/18	5.1	56	200	1.3	7.97	470	1100	< 0.0030	0.011	0.043	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.019	< 0.00020	0.14	1.94	< 0.0025	< 0.0020	NA		
	05/17/18	5.7	55	210	1.2	7.77	540	1100	NA	0.011	0.043	NA	NA	NA	< 0.0010	< 0.00050	0.021	NA	0.13	1.57	F1 < 0.0025	NA	NA		
	12/15/18	5.8	57	200	1.2	7.99	200	1100	NA	0.0069	0.041	NA	NA	NA	< 0.0010	< 0.00050	0.022	NA	0.065	2.04	< 0.0025	NA	NA		
	06/26/19	5.4	57	220	1.1	7.98	350	1100	NA	0.0074	0.041	NA	NA	NA	< 0.0010	< 0.00050	0.018	NA	0.065	1.18	F1 < 0.0025	NA	NA		
	11/06/19	4.5	58	210	1.1	7.99	350	1100	NA	0.010	0.041	NA	NA	NA	< 0.0010	< 0.00050	0.019	NA	0.013	1.620	0.010	NA	NA		
	06/25/20	4.9	57	220	1.1	8.33	410	1100	NA	0.0053	0.042	NA	NA	NA	< 0.0010	< 0.00050	0.019	NA	0.020	2.19	< 0.0025	NA	NA		
	12/07/20	5.3	57	220	1.2	7.83	450	1100	NA	0.0044	0.043	NA	NA	NA	< 0.0010	< 0.00050	0.024	NA	0.018	2.16	< 0.0025	NA	NA		
	03/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	
	04/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.25
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.43
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61
	06/30/21	B 5.9	61	200	1.1	7.88	470	1100	< 3.0	< 0.017	0.048	^1+ < 1.0	< 0.50	< 5.0	< 0.0010	< 0.00050	0.024	< 0.00020	0.017	2.57	< 0.0025	< 2.0	NA		
	07/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48
	08/13/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.31
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.48
	09/24/21	0.26	60	210	0.99	8.16	460	1100	< 0.0030	0.0038	0.047	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.012	2.23	< 0.0025	< 0.0020	NA		
	12/15/21	5.1	63	200	1.0	7.95	450	1200	< 0.0030	0.0028	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.010	2.45	< 0.0025	< 0.0020	0.09		
	03/15/22	4.9	57	200	1.0	7.91	480	1300	< 0.0030	< 0.0010	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0012	< 0.00050	0.039	< 0.00020	0.017	1.34	< 0.0025	< 0.0020	0.45		
	06/10/22	5.1	60	200	0.99	7.29	450	1200	< 0.0030	0.0024	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.010	2.32	< 0.0025	< 0.0020	0.16		
	09/28/22	4.9	60	200	0.98	7.72	470	1100	< 0.0030	0.0023	0.044	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.014	2.43	< 0.0025	< 0.0020	0.61		
	12/19/22	5.1	61	01020	1.2	7.80	440	1200	< 0.0030	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.010	1.83	< 0.0025	< 0.0020	1.04			
	03/17/23	5.2	63	200	0.93	7.82	470	1200	< 0.0030	0.0022	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00051	0.022	< 0.00020	0.010	1.22	< 0.0025	< 0.0020	2.43		
	06/29/23	5.4	65	200	0.95	7.55	480	1200	< 0.0030	0.0023	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.0050	0.022	< 0.00020	0.0088	2.45	< 0.0025	< 0.0020	0.74		
	09/12/23	5.4	48	220	0.93	7.67	480	1300	< 0.0020	< 0.0020	0.042	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	0.021	< 0.00020	0.0058	1.60	< 0.0050	0.0021	0.69		
	12/19/23	5.1	64	210	0.88	7.88	480	1200	< 0.0030	0.0069	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00072	0.021	< 0.00020	0.015	2.04	< 0.0025	< 0.0020	3.05		
	03/07/24	4.9	63	190	0.93	7.78	470	1300	^1+ < 0.0030	0.0056	0.044	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.029	1.59	< 0.0025	< 0.0020	4.14		
	06/19/24	5.1	62	190	0.94	7.82	470	1300	< 0.0030	0.0014	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	< 0.0050	2.24	< 0.0025	< 0.0020	0.26		
	08/26/24	5.1	70	200	0.76	7.59	490	1300	^1+ < 0.0030	< 0.0010	0.047	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.0050	< 0.00020	< 0.0050	2.19	< 0.0025	< 0.0020	0.57		
	11/25/24	4.6	69	180	0.86	7.75	500	1300	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	< 0.0050	2.62	< 0.0025	< 0.0020	0.88		
	03/21/25	5.1	70	200	0.87	7.35	560	1300	< 0.0030	0.0020	0.050	< 0.0010	< 0.00050	< 0.0050	^1+ < 0.0010	< 0.00050	0.024	< 0.00020	< 0.0050	1.71	< 0.0025	< 0.0020	0.72		
	06/11/25	5.0	66	220	0.86	7.89	530	1300	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.026	< 0.00020	< 0.0050	3.31	< 0.0025	< 0.0020	0.67		
	09/18/25	4.5	68	190	0.87	7.93	480	1300	< 0.0030	< 0.0010	0.054	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	< 0.0050	3.17	F1 < 0.0025	< 0.0020	0.89		
	12/22/25	4.9	73	190	0.93	7.76	540	1300	< 0.0030	0.0013	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.0080	2.64	< 0.0025	< 0.0020	1.3		

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^1+ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 ^ = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity	
R32S down-gradient	11/19/15	1.3	99	88	0.28	7.32	210	640	< 0.0030	0.0018	0.033	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.16	1.928	< 0.0025	< 0.0020	NA	
	05/05/16	1.9	100	140	0.32	7.38	210	810	< 0.0030	0.0054	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.069	< 0.00020	0.29	2.26	< 0.0025	< 0.0020	NA	
	06/29/16	2.5	110	110	0.35	7.53	280	860	< 0.0030	0.0021	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.065	< 0.00020	0.43	2.12	< 0.0025	< 0.0020	NA	
	08/26/16	3.0	120	100	0.40	7.30	330	850	< 0.0030	0.0014	0.043	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.056	< 0.00020	0.48	2.39	< 0.0025	< 0.0020	NA	
	11/18/16	3.3	120	99	0.34	7.38	270	830	< 0.0030	0.0016	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.063	< 0.00020	0.55	3.17	< 0.0025	< 0.0020	NA	
	02/16/17	F1 4.0	120	99	0.34	7.39	340	830	< 0.0030	0.0020	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.064	< 0.00020	0.57	1.76	F1 < 0.0025	< 0.0020	NA	
	05/25/17	8.3	240	88	0.42	7.54	320	850	< 0.0060	0.0042	0.075	^ < 0.0020	< 0.0010	< 0.010	< 0.0020	< 0.0010	0.14	< 0.00020	1.4	1.82	< 0.0050	< 0.0040	NA	
	07/07/17	6.2	120	96	0.40	7.61	360	830	< 0.0030	0.0043	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.10	< 0.00020	0.87	2.08	< 0.0025	< 0.0020	NA	
	09/28/17	4.8	140	78	0.36	7.29	290	870	< 0.0030	0.0030	0.044	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.086	< 0.00020	0.57	1.79	< 0.0025	< 0.0020	NA	
	11/21/17	5.7	120	97	0.38	7.50	390	900	< 0.0030	0.0027	0.041	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.74	1.82	< 0.0025	< 0.0020	NA	
	03/07/18	5.8	150	86	0.32	7.57	350	880	< 0.0030	0.0029	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.67	2.56	< 0.0025	< 0.0020	NA	
	05/21/18	4.4	120	77	0.29	7.13	310	1000	NA	0.0024	0.040	NA	NA	NA	< 0.0010	< 0.00050	0.10	NA	0.64	2.22	< 0.0025	NA	NA	
	12/13/18	3.5	120	F1 72	0.26	7.43	280	880	NA	0.0019	0.043	NA	NA	NA	< 0.0010	0.0017	0.080	NA	0.56	2.23	< 0.0025	NA	NA	
	06/27/19	6.3	140	74	0.27	7.33	380	880	NA	0.0027	0.041	NA	NA	NA	< 0.0010	< 0.00050	0.090	NA	0.81	2.67	< 0.0025	NA	NA	
	11/06/19	4.8	150	69	0.27	7.45	360	820	NA	< 0.010	0.039	NA	NA	NA	< 0.0010	< 0.00050	0.13	NA	0.58	2.37	< 0.010	NA	NA	
	06/29/20	6.0	130	71	0.28	7.47	400	790	NA	0.0021	0.038	NA	NA	NA	< 0.0010	< 0.00050	0.11	NA	0.64	3.92	< 0.0025	NA	NA	
	12/16/20	6.1	150	F1 66	0.34	7.43	430	840	NA	0.0025	0.038	NA	NA	NA	< 0.0010	^ < 0.00050	0.11	NA	0.75	3.22	F1 < 0.0025	NA	NA	
	03/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.81
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.23
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.78
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.14
	06/28/21	B 4.0	130	56	0.30	7.16	430	790	< 3.0	< 0.0010	0.036	< 1.0	< 0.50	< 5.0	< 0.0010	< 0.00050	0.071	< 0.00020	0.53	2.10	< 0.0025	< 2.0	NA	
	07/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42
	08/13/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.57
	09/30/21	6.0	160	62	0.31	7.47	520	970	< 0.0030	0.0029	0.037	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.12	< 0.00020	0.95	2.45	< 0.0025	< 0.0020	0.39	
	12/15/21	4.9	150	59	0.32	7.42	490	930	< 0.0030	0.0016	0.037	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.097	< 0.00020	0.75	2.68	< 0.0025	< 0.0020	0.84	
	03/16/22	4.0	9.6	50	0.31	7.56	430	1100	< 0.0030	0.037	0.012	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.043	< 0.00020	0.51	2.61	< 0.0025	< 0.0020	1.31	
	06/10/22	5.5	120	54	0.31	7.23	460	880	< 0.0030	0.0017	0.034	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.089	< 0.00020	0.58	2.96	< 0.0025	< 0.0020	0.10	
	09/26/22	5.1	130	57	0.30	7.23	450	870	< 0.0030	0.0022	0.034	1+ ^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.12	< 0.00020	0.69	2.27	< 0.0025	< 0.0020	0.66	
	12/16/22	4.7	130	61	0.51	7.41	400	860	< 0.0030	0.0021	0.035	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.63	2.06	< 0.0025	< 0.0020	1.53	
	03/23/23	4.6	130	56	0.29	7.57	390	900	< 0.0030	0.0026	0.034	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.10	< 0.00020	0.62	1.86	< 0.0025	< 0.0020	1.59	
	06/29/23	1.4	100	47	0.29	7.07	380	770	< 0.0030	0.0016	0.028	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.035	< 0.00020	0.092	2.02	< 0.0025	< 0.0020	0.74	
	09/12/23	2.8	88	50	0.29	7.60	380	790	< 0.0020	< 0.0020	0.030	< 0.0010	< 0.00020	< 0.00050	< 0.00050	< 0.00050	0.074	< 0.00020	0.42	1.97	< 0.0050	< 0.0010	0.52	
	12/19/23	0.48	88	43	0.28	7.43	350	780	< 0.0030	< 0.0010	0.027	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.025	< 0.00020	0.031	2.54	< 0.0025	< 0.0020	2.10	
	03/07/24	2.4	110	43	0.30	7.41	370	920	^1+ < 0.0030	0.0011	0.032	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.059	< 0.00020	0.35	1.12	< 0.0025	< 0.0020	0.83	
	06/21/24	0.36	94	37	0.30	7.52	290	730	< 0.0030	< 0.0010	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.019	< 0.00020	0.046	1.97	< 0.0025	< 0.0020	1.03	
	08/29/24	3.0	120	47	0.24	7.67	410	840	< 0.0030	0.0014	0.034	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.083	< 0.00020	0.380	2.52	< 0.0025	< 0.0020	2.52	
	11/26/24	4.1	130	39	0.25	7.57	390	880	< 0.0030	0.0024	0.032	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.10	< 0.00020	0.48	2.08	< 0.0025	< 0.0020	2.00	
	03/24/25	3.2	110	40	0.28	7.53	380	900	< 0.0030	0.0019	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.081	< 0.00020	0.39	1.20	< 0.0025	< 0.0020	1.20	
06/16/25	2.3	100	41	0.27	7.23	390	770	< 0.0030	0.0011	0.030	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.064	< 0.00020	0.28	2.89	< 0.0025	< 0.0020	0.83		
09/18/25	4.0	120	38	0.31	7.35	390	830	< 0.0030	0.0029	0.036	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.098	< 0.00020	0.53	2.62	< 0.0025	< 0.0020	1.31		
12/23/25	2.1	94	35	0.30	7.39	400	740	< 0.0030	< 0.0010	0.030	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.051	< 0.00020	0.24	2.67	< 0.0025	< 0.0020	0.84		

Notes: All units are in mg/L with the exception of Radium (pCi/L).

B = Compound was found in blank and sample.

H = Sample prep'd or analyzed past holding time.

NA = Not Analyzed. No confirmation sample required.

F1 = MS and/or MSD Recovery outside of limits.

^ = Continuing calibration verification outside limits. High bias.

^1+ = Initial verification calibration outside of limits. biased high.

^ = Denotes instrument related QC exceeds the control limits

\* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
G44S down-gradient	11/20/15	1.0	120	43	0.21	7.11	220	640	< 0.0030	0.0012	0.053	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.017	< 0.00020	0.10	1.161	< 0.0025	< 0.0020	NA		
	05/26/16	0.91	110	37	0.18	7.39	120	690	< 0.0030	< 0.0010	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	0.046	< 0.415	< 0.0025	< 0.0020	NA		
	06/30/16	0.69	100	32	0.18	7.59	99	620	< 0.0030	< 0.0010	0.044	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.025	0.879	< 0.0025	< 0.0020	NA		
	08/26/16	0.89	120	36	0.19	7.12	110	710	< 0.0030	< 0.0010	0.053	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.047	0.816	< 0.0025	< 0.0020	NA		
	11/16/16	0.82	120	26	0.17	7.15	88	530	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.041	0.475	< 0.0025	< 0.0020	NA		
	02/16/17	0.86	120	30	0.15	7.38	120	620	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.044	0.729	< 0.0025	< 0.0020	NA		
	05/24/17	0.83	120	31	0.19	7.08	95	600	< 0.0030	< 0.0010	0.048	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.031	1.02	< 0.0025	< 0.0020	NA		
	07/10/17	0.83	110	30	< 0.10	7.00	110	700	< 0.0030	< 0.0010	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.061	0.667	< 0.0025	< 0.0020	NA		
	09/26/17	0.99	130	30	0.19	7.13	100	730	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.081	0.614	< 0.0025	< 0.0020	NA		
	11/21/17	0.79	110	35	0.18	7.06	120	640	< 0.0030	< 0.0010	0.051	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.055	0.913	< 0.0025	< 0.0020	NA		
	03/07/18	0.91	120	36	0.18	7.19	110	670	< 0.0030	0.0014	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.017	< 0.00020	0.049	1.31	< 0.0025	< 0.0020	NA		
	05/17/18	0.98	120	35	0.18	7.02	96	780	NA	< 0.0010	0.054	NA	NA	NA	< 0.0010	< 0.00050	0.016	NA	0.071	0.714	< 0.0025	NA	NA		
	12/10/18	1.1	120	43	0.19	7.41	78	630	NA	< 0.0010	0.057	NA	NA	NA	< 0.0010	< 0.00050	0.019	NA	0.14	0.454	< 0.0025	NA	NA		
	06/19/19	1.3	130	59	0.19	7.02	140	720	NA	< 0.0010	0.062	NA	NA	NA	< 0.0010	< 0.00050	0.023	NA	0.13	0.841	< 0.0025	NA	NA		
	11/12/19	1.3	140	53	0.21	7.22	160	670	NA	< 0.010	0.065	NA	NA	NA	< 0.0010	< 0.00050	0.026	NA	0.20	1.01	< 0.010	NA	NA		
	06/29/20	1.4	130	52	0.21	7.30	160	670	NA	< 0.0010	0.060	NA	NA	NA	< 0.0010	< 0.00050	0.024	NA	0.15	1.860	< 0.0025	NA	NA		
	12/15/20	1.7	140	52	0.25	7.17	180	650	NA	< 0.0010	0.062	NA	NA	NA	< 0.0010	< 0.00050	0.05	NA	0.28	1.18	< 0.0025	NA	NA		
	03/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.66	
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.89
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.31
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.41
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.42
	6/30/21	B 1.9	120	65	0.21	7.00	170	730	< 3.0	< 0.0010	0.058	^1+ < 1.0	< 0.50	< 5.0	< 0.0010	< 0.00050	0.026	< 0.00020	0.22	1.29	< 0.0025	< 2.0	NA		
	07/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.57
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.56
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.38
	09/27/21	0.39	130	62	0.20	7.30	180	650	< 0.0030	< 0.0010	0.065	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.056	< 0.00020	0.29	1.19	< 0.0025	< 0.0020	NA		
	12/16/21	1.9	140	62	0.20	7.21	170	690	< 0.0030	< 0.0010	0.066	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00020	0.29	1.12	< 0.0025	< 0.0020	1.29		
	03/15/22	2.1	58	63	0.045	7.24	180	860	< 0.0030	0.0025	0.045	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.022	< 0.00020	0.093	0.98	< 0.0025	< 0.0020	1.09		
	06/09/22	1.6	130	75	0.20	7.02	160	730	< 0.0030	< 0.0010	0.067	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.17	1.36	< 0.0025	< 0.0020	0.78		
	09/26/22	1.8	130	69	0.21	7.01	180	810	< 0.0030	< 0.0010	0.065	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.027	< 0.00020	0.24	1.6	< 0.0025	< 0.0020	0.86		
	12/21/22	1.9	130	67	0.49	7.07	180	870	< 0.0030	< 0.0010	0.069	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.29	1.84	< 0.0025	< 0.0020	11.70		
	03/15/23	1.9	130	66	0.20	7.1	190	720	< 0.0030	< 0.0010	0.067	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.026	< 0.00020	0.36	0.783	< 0.0025	< 0.0020	1.13		
	06/29/23	1.8	140	64	0.21	7.00	160	680	< 0.0030	< 0.010	0.069	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.026	< 0.00020	0.24	1.36	< 0.0025	< 0.0020	3.04		
	09/13/23	1.7	100	68	0.21	7.01	160	720	< 0.0020	< 0.0020	0.062	< 0.0010	< 0.00020	< 0.00050	< 0.00050	< 0.00050	0.024	< 0.00020	0.21	1.54	< 0.0050	< 0.0010	0.93		
	12/19/23	1.6	130	63	0.067	7.24	170	750	< 0.0030	0.0011	0.067	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.17	1.50	< 0.0025	< 0.0020	12.60		
	03/06/24	1.4	130	66	0.21	7.29	150	710	^1+ < 0.0030	< 0.0010	0.065	^1+ < 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.021	< 0.00020	0.14	0.873	< 0.0025	< 0.0020	6.71		
	06/21/24	1.2	130	64	0.22	7.24	150	850	< 0.0030	< 0.0010	0.064	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.018	< 0.00020	0.11	1.18	< 0.0025	< 0.0020	3.52		
	08/29/24	1.4	140	60	0.18	7.34	160	760	< 0.0030	< 0.0010	0.071	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.022	< 0.00020	0.15	1.48	< 0.0025	< 0.0020	3.59		
	11/26/24	1.6	130	50	0.21	7.14	150	800	< 0.0030	< 0.0010	0.065	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.024	< 0.00020	0.19	1.40	< 0.0025	< 0.0020	57.60		
	03/26/25	1.7	130	F1 57	0.22	7.13	170	720	< 0.0030	< 0.0010	0.068	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.023	< 0.00020	0.20	0.806	< 0.0025	< 0.0020	2.07		
	06/12/25	1.8	130	59	0.22	7.00	170	700	< 0.0030	< 0.0010	0.070	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.028	< 0.00020	0.21	1.76	< 0.0025	< 0.0020	9.64		
	09/19/25	1.7	130	57	0.24	7.01	160	710	< 0.0030	< 0.0010	0.070	< 0.0010	< 0.00050	< 0.00050	< 0.0010	< 0.00050	0.025	< 0.00020	0.20	1.92	< 0.0025	< 0.0020	1.79		
	12/26/25	F1,F2 1.9	140	59	0.32	7.01	180	660	F1 < 0.0030	F1,F2 < 0.0010	F1,F2 0.071	F1 < 0.0010	F1 < 0.00050	F1 < 0.00050	F1 < 0.0010	F1 < 0.00050	F1,F2 0.027	< 0.00020	F1,F2 0.23	1.65	F1 < 0.0025	F1 < 0.0020	2.4		

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^1+ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 \* = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity		
G46s down-gradient	11/23/15	6.0	110	80	0.27	7.32	430	780	< 0.0030	0.0033	0.064	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.073	< 0.00020	0.50	1.468	< 0.0025	< 0.0020	NA		
	05/06/16	7.7	100	100	0.26	7.77	360	940	< 0.0030	0.0018	0.099	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.70	1.85	< 0.0025	< 0.0020	NA		
	06/30/16	7.9	100	99	0.29	8.26	290	880	< 0.0030	0.0014	0.098	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.71	1.94	< 0.0025	< 0.0020	NA		
	08/26/16	7.2	100	120	0.35	7.48	350	1000	< 0.0030	0.0027	0.054	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.12	< 0.00020	1.2	1.17	< 0.0025	< 0.0020	NA		
	11/18/16	6.5	110	120	0.39	7.56	330	1000	< 0.0030	0.0025	0.051	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	1.8	< 0.601	< 0.0025	< 0.0020	NA		
	02/16/17	6.1	100	150	0.41	7.94	410	1000	< 0.0030	0.0024	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.091	< 0.00020	1.4	1.07	< 0.0025	< 0.0020	NA		
	05/22/17	6.8	100	130	0.44	7.37	350	970	< 0.0030	0.0033	B 0.046	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	1.4	0.683	< 0.0025	< 0.0020	NA		
	07/06/17	4.9	100	150	0.41	7.33	290	880	< 0.0030	0.0034	0.044	< 0.0010	< 0.00050	< 0.0050	0.010	^ < 0.00050	0.076	< 0.00020	0.92	0.709	< 0.0025	< 0.0020	NA		
	09/27/17	4.9	88	160	0.40	7.28	270	890	< 0.0030	0.0043	0.031	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.091	< 0.00020	0.63	0.754	< 0.0025	< 0.0020	NA		
	11/21/17	5.3	78	170	0.43	7.73	270	880	< 0.0030	0.0055	0.032	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.11	< 0.00020	0.68	0.776	< 0.0025	< 0.0020	NA		
	03/08/18	5.9	110	140	0.41	7.75	350	940	< 0.0030	0.0039	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.093	< 0.00020	0.82	1.29	< 0.0025	< 0.0020	NA		
	05/18/18	5.9	110	120	0.40	7.66	260	1100	NA	0.0028	0.048	NA	NA	NA	< 0.0010	< 0.00050	0.073	NA	0.84	1.07	< 0.0025	NA	NA		
	12/11/18	7.6	120	110	0.38	7.66	270	1100	NA	0.0023	0.055	NA	NA	NA	< 0.0010	< 0.00050	0.096	NA	1.20	1.22	< 0.0025	NA	NA		
	06/19/19	13	89	69	0.33	7.64	440	1000	NA	0.014	0.040	NA	NA	NA	< 0.0010	< 0.00050	0.22	NA	1.80	1.37	< 0.0025	NA	NA		
	11/13/19	10	120	68	0.37	7.68	470	1000	NA	< 0.050	0.041	NA	NA	NA	< 0.0010	< 0.0050	0.11	NA	1.60	1.30	< 0.010	NA	NA		
	06/29/20	13	96	74	0.34	8.06	510	980	NA	0.075	0.050	NA	NA	NA	< 0.0010	< 0.0050	0.23	NA	1.7	2.780	< 0.0025	NA	NA		
	12/15/20	10	120	73	0.35	7.74	540	1000	NA	0.27	0.075	NA	NA	NA	< 0.0010	< 0.00085	0.21	NA	1.5	2.16	< 0.0025	NA	NA		
	03/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.4	
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	106.5
	04/23/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59.2
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	181
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3140
	06/30/21	B 15	120	67	0.30	7.40	590	1000	< 3.0	0.044	0.050	^1+ < 1.0	< 0.5	< 5.0	< 0.0010	< 0.00050	0.21	< 0.00020	1.6	2.17	< 0.0025	< 2.0	NA	NA	
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.6
	08/12/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	112.0
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.3
	09/27/21	0.24	130	66	0.25	7.80	560	1000	< 0.0030	0.046	0.043	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.0042	< 0.00020	1.6	1.54	< 0.0025	< 0.0020	NA	NA	
	12/15/21	11	140	66	0.27	7.53	500	990	< 0.0030	0.18	0.067	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.16	< 0.00020	1.4	2.61	< 0.0025	< 0.0020	73.1		
	03/11/22	12	130	54	0.34	7.38	600	1200	< 0.0030	0.17	0.069	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	1.6	3.65	< 0.0025	< 0.0020	99.3		
	06/09/22	11	110	68	0.26	7.36	460	930	< 0.0030	0.017	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.18	< 0.00020	1.2	1.72	< 0.0025	< 0.0020	6.63		
	09/26/22	11	120	63	0.31	7.31	580	1000	< 0.0030	0.11	0.057	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.19	< 0.00020	1.7	2.59	< 0.0025	< 0.0020	34.4		
	12/20/22	13	140	51	F1 0.88	7.68	670	1200	< 0.0030	0.12	0.065	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.17	< 0.00020	1.9	4.78	< 0.0025	< 0.0020	77.9		
	03/22/23	10	130	72	0.31	7.70	500	1100	< 0.0030	0.056	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.20	< 0.00020	1.5	2.57	< 0.0025	< 0.0020	88.6		
	06/29/23	8.6	140	69	0.23	7.50	440	890	< 0.0030	0.044	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.17	< 0.00020	1.0	2.55	< 0.0025	< 0.0020	32.3		
	09/13/23	7.5	100	72	0.24	7.48	460	920	< 0.0020	0.11	0.059	< 0.0010	< 0.00020	< 0.0050	0.012	< 0.00050	0.17	< 0.00020	1.1	3.85	< 0.0050	< 0.0010	113.0		
	12/20/23	10	120	69	0.23	7.48	490	980	^1+ < 0.0030	0.051	0.057	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.18	< 0.00020	1.1	2.67	< 0.0025	< 0.0020	58.7		
	03/07/24	9.6	120	63	0.24	7.36	520	1100	^1+ < 0.0030	0.11	0.059	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.20	< 0.00020	1.2	2.10	< 0.0025	< 0.0020	71.1		
	06/20/24	11	130	54	0.34	7.59	580	1100	< 0.0030	0.019	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.18	0.0012	1.6	2.55	< 0.0025	< 0.0020	8.46		
	08/27/24	10	130	55	0.23	7.55	500	1000	^1+ < 0.0030	0.073	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.22	< 0.00020	1.2	3.15	< 0.0025	< 0.0020	56.3		
	11/25/24	9.3	120	62	0.22	7.53	500	1000	< 0.0030	0.057	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.23	< 0.00020	1.0	2.56	< 0.0025	< 0.0020	59.4		
	03/24/25	9.5	120	61	0.22	7.46	490	980	< 0.0030	0.10	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.21	< 0.00020	1.0	2.18	< 0.0025	< 0.0020	41.9		
	06/12/25	10	130	60	0.21	8.02	560	950	< 0.0030	0.39	0.097	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.22	< 0.00020	1.1	8.05	< 0.0025	< 0.0020	134.0		
	09/16/25	11	130	53	0.33	8.04	560	1000	< 0.0030	0.035	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.18	< 0.00020	1.2	3.53	< 0.0025	< 0.0020	27.3		
	12/26/25	9.6	140	62	0.27	7.65	570	970	< 0.0030	0.061	0.047	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.21	< 0.00020	1.2	3.51	< 0.0025	< 0.0020	57.6		

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^+ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 ^ = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity			
G47S down-gradient	11/23/15	4.6	11	160	0.45	9.23	480	700	< 0.0030	0.018	0.018	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.036	< 0.00020	0.32	0.898	0.0030	< 0.0020	NA			
	05/06/16	5.0	7.8	140	0.72	9.86	410	910	< 0.0030	0.034	0.017	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.033	< 0.00020	0.41	0.736	0.0033	< 0.0020	NA			
	07/01/16	6.4	8.4	150	0.68	9.32	340	860	< 0.0030	0.022	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	0.53	1.01	< 0.0025	< 0.0020	NA			
	08/24/16	9.3	9.2	140	0.67	9.19	300	830	< 0.0030	0.017	0.023	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.028	< 0.00020	0.41	1.06	< 0.0025	< 0.0020	NA			
	11/16/16	15	1.3	F1 150	1.8	10.08	620	1700	< 0.0030	0.14	0.0091	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	1.4	< 1.38	0.0038	< 0.0020	NA			
	02/15/17	7.6	4.4	160	1.1	9.26	540	1200	< 0.0030	0.059	0.016	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.050	< 0.00020	0.57	0.716	0.0035	< 0.0020	NA			
	05/23/17	18	0.93	160	2.2	10.03	720	1800	< 0.0030	0.18	0.0081	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	1.3	< 0.361	0.0025	< 0.0020	NA			
	07/10/17	18	1.2	150	2.1	10.06	780	1800	< 0.0030	0.17	0.0085	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	1.2	0.733	< 0.0025	< 0.0020	NA			
	09/27/17	18	1.1	150	2.0	10.15	750	1800	< 0.0030	0.21	0.0085	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	1.3	0.836	< 0.0025	< 0.0020	NA			
	11/22/17	21	1.1	150	2.1	10.56	710	1800	< 0.0030	0.23	0.0090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	1.5	0.692	0.0044	< 0.0020	NA			
	03/08/18	18	1.1	170	2.1	10.67	780	1900	< 0.0030	0.25	0.0090	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	1.4	0.790	0.0042	< 0.0020	NA			
	05/18/18	3.7	1.1	160	1.7	7.79	570	1800	NA	0.23	0.0087	NA	NA	NA	< 0.0010	< 0.00050	0.015	NA	1.5	1.01	0.0039	NA	NA			
	12/1/18	13	2.8	140	1.1	10.14	440	1300	NA	0.140	0.011	NA	NA	NA	< 0.0010	< 0.00050	0.023	NA	1.10	0.597	0.0031	NA	NA			
	06/28/19	13	2.9	130	1.3	9.95	450	1400	NA	0.13	0.012	NA	NA	NA	< 0.0010	< 0.00050	0.028	NA	1.00	0.566	< 0.0025	NA	NA			
	11/07/19	4.3	15	140	0.55	8.39	410	1100	NA	0.029	0.017	NA	NA	NA	< 0.0010	< 0.00050	0.053	NA	0.38	1.02	< 0.0100	NA	NA			
	06/30/20	5.2	16	120	0.59	9.04	F1 440	1000	NA	0.037	0.015	NA	NA	NA	< 0.0010	< 0.00050	0.052	NA	0.46	1.240	0.0040	NA	NA			
	12/07/20	7.6	11	120	1.1	9.13	500	1100	NA	0.066	0.012	NA	NA	NA	< 0.0010	< 0.00050	0.047	NA	0.62	< 0.466	< 0.0050	NA	NA			
	03/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12		
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.10	
	04/22/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.16
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.53
	06/24/21	B 6.1	12	110	0.66	8.68	470	1000	< 0.0030	0.04	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.050	H < 0.00020	0.48	0.871	0.0027	< 0.0020	NA			
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	
	08/13/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.18	
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.68	
	09/22/21	6.5	11	100	0.62	8.83	440	910	< 0.0030	0.041	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.053	< 0.00020	0.52	0.764	0.0030	< 0.0020	NA			
	12/16/21	6.7	11	98	0.65	8.63	440	900	< 0.0030	0.039	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.046	< 0.00020	0.54	1.16	0.0031	< 0.0020	0.59			
	03/16/22	6.9	40	96	0.66	8.94	450	1200	< 0.0030	0.0074	0.021	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.48	2.12	< 0.0025	< 0.0020	0.26			
	06/09/22	7.3	9.2	96	0.63	8.39	460	1000	< 0.0030	0.038	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.043	< 0.00020	0.53	0.76	0.0028	< 0.0020	0.11			
	09/22/22	10	5.8	100	0.9	9.45	510	1100	< 0.0030	0.064	0.011	1+^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.044	< 0.00020	0.71	0.903	< 0.0025	< 0.0020	0.35			
	12/21/22	7.0	7.9	100	F1 1.1	9.50	450	1100	< 0.0030	0.036	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.044	< 0.00020	0.59	0.864	0.0028	< 0.0020	0.76			
	05/23/23	6.7	11	100	0.65	9.22	440	1100	< 0.0030	0.039	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.049	< 0.00020	0.52	0.984	0.0025	< 0.0020	1.12			
	06/30/23	7.7	12	96	0.64	8.30	470	970	< 0.0030	0.038	0.012	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.052	0.00058	0.55	1.26	0.0033	< 0.0020	0.76			
	09/07/23	6.1	9.4	F1 100	0.64	7.77	450	1000	< 0.0080	0.033	0.011	< 0.0010	< 0.00020	< 0.0050	< 0.0005	< 0.00050	0.039	< 0.00020	0.50	1.07	< 0.0050	< 0.0040	0.18			
	12/18/23	7.1	11	110	0.59	8.52	470	980	< 0.0030	0.038	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.054	< 0.00020	0.55	2.23	< 0.0025	< 0.0020	1.15			
	03/04/24	5.9	16	100	0.57	8.49	470	1100	^1+ < 0.0030	0.030	0.012	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.053	< 0.00020	0.48	0.792	< 0.0025	< 0.0020	0.74			
	06/20/24	4.7	14	96	0.55	9.34	440	1100	< 0.0030	0.024	0.011	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.043	< 0.00020	0.38	< 0.492	< 0.0025	< 0.0020	0.48			
	08/28/24	6.0	14	84	0.46	8.51	450	1100	^1+ < 0.0030	0.027	0.012	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.059	< 0.00020	0.48	1.12	< 0.0025	< 0.0020	0.82			
	11/22/24	5.6	12	83	0.54	8.44	430	1100	< 0.0150	0.026	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.058	< 0.00020	0.48	< 0.652	< 0.0025	< 0.0020	0.77			
	03/26/25	6.0	11	83	0.57	7.89	440	990	< 0.0030	0.028	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.052	< 0.00020	0.48	0.782	0.0027	< 0.0020	0.38			
	06/16/25	6.5	11	91	0.55	8.96	460	970	< 0.0030	0.027	0.013	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.057	< 0.00020	0.48	1.37	< 0.0025	< 0.0020	0.35			
	09/15/25	6.9	11	87	0.58	9.09	430	1000	< 0.0030	0.027	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.056	< 0.00020	0.51	1.03	< 0.0025	< 0.0020	0.36			
	12/26/25	6.8	11	83	0.62	9.17	500	910	< 0.0030	0.028	0.015	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.057	< 0.00020	0.53	< 0.846	< 0.0025	< 0.0020	0.32			

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^+ = Continuing calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 ^ = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #9, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	Turbidity	
G48S down-gradient	11/20/15	11	6.9	120	1.5	9.08	760	1100	< 0.0030	0.03	0.015	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	1.4	0.8512	< 0.0025	< 0.0020	NA	
	05/05/16	9.3	5.9	120	1.5	9.53	580	1200	< 0.0030	0.046	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	1.2	0.800	< 0.0025	< 0.0020	NA	
	07/01/16	9.5	4.2	120	1.4	9.60	480	1100	< 0.0030	0.038	0.011	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	1.2	1.01	< 0.0025	< 0.0020	NA	
	08/24/16	10	5.5	120	1.4	9.31	420	1100	< 0.0030	0.032	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	1.1	1.16	< 0.0025	< 0.0020	NA	
	11/16/16	9.8	10	110	1.4	9.61	340	1100	< 0.0030	0.03	0.018	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	1.1	1.65	< 0.0025	< 0.0020	NA	
	02/15/17	8.4	8.3	120	1.2	9.63	490	1100	< 0.0030	0.038	0.015	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.79	0.824	< 0.0025	< 0.0020	NA	
	05/23/17	9.2	8.1	120	1.3	9.49	470	1100	< 0.0030	0.03	0.014	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.95	0.661	< 0.0025	< 0.0020	NA	
	07/10/17	7.8	11	110	1.2	8.77	460	1000	< 0.0030	0.022	0.017	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.84	1.39	< 0.0025	< 0.0020	NA	
	09/27/17	7.6	18	100	1.1	8.94	480	1100	< 0.0030	0.024	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.019	< 0.00020	0.72	1.32	< 0.0025	< 0.0020	NA	
	11/22/17	8.6	12	120	1.2	9.42	450	1000	< 0.0030	0.027	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.77	1.27	< 0.0025	< 0.0020	NA	
	03/08/18	5.3	62	100	0.85	8.13	450	1000	< 0.0030	0.017	0.031	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.51	2.30	< 0.0025	< 0.0020	NA	
	05/18/18	5.9	53	100	0.92	7.79	370	1100	NA	0.022	0.023	NA	NA	NA	< 0.0010	< 0.00050	0.023	NA	0.49	0.962	< 0.0025	NA	NA	
	12/1/18	7.3	23	110	1.1	8.42	310	1000	NA	0.023	0.016	NA	NA	NA	< 0.0010	0.0049	0.019	NA	0.79	0.921	< 0.0025	NA	NA	
	06/25/19	7.1	28	110	1.0	8.07	390	1000	NA	0.022	0.018	NA	NA	NA	< 0.0010	< 0.00050	0.022	NA	0.73	1.33	< 0.0025	NA	NA	
	11/07/19	5.8	18	100	0.89	7.83	380	1000	NA	0.012	0.027	NA	NA	NA	< 0.0010	< 0.0050	0.019	NA	0.59	1.24	< 0.010	NA	NA	
	08/26/20	7.1	16	110	1.0	9.20	400	940	NA	0.022	0.017	NA	NA	NA	< 0.0010	< 0.0050	0.021	NA	0.54	0.971	< 0.0025	NA	NA	
	12/07/20	6.0	29	110	1.1	8.4	410	890	NA	0.016	0.020	NA	NA	NA	< 0.0010	< 0.00050	0.026	NA	0.41	2.00	< 0.0025	NA	NA	
	03/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47
	04/05/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14
	04/22/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.22
	05/18/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.44
	06/08/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.24
	06/24/21	B 4.3	96	96	0.71	7.27	480	1100	< 0.0030	0.026	0.035	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.032	H < 0.00020	0.26	3.89	< 0.0025	< 0.0020	NA	
	07/01/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.91
	08/13/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.23
	09/02/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.63
	09/22/21	5.4	45	100	0.74	7.68	440	1000	< 0.0030	0.061	0.027	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.030	< 0.00020	0.46	2.15	< 0.0025	< 0.0020	NA	
	12/16/21	6.0	46	99	0.91	7.02	430	880	< 0.0030	0.0076	0.023	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.52	1.87	< 0.0025	< 0.0020	0.62	
	03/16/22	5.8	130	99	0.96	7.87	430	1100	< 0.0030	< 0.0010	0.064	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.27	2.56	< 0.0025	< 0.0020	0.31	
	06/09/22	5.6	58	98	0.87	7.47	440	1000	< 0.0030	0.084	0.025	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.027	< 0.00020	0.38	1.36	< 0.0025	< 0.0020	0.22	
	09/22/22	6.8	34	98	0.97	8.14	430	950	< 0.0030	0.011	0.019	1+ ^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.43	2.51	< 0.0025	< 0.0020	0.86	
	12/21/22	6.4	28	100	0.86	8.66	410	1100	< 0.0030	0.014	0.018	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.43	1.12	< 0.0025	< 0.0020	3.73	
	03/23/23	6.0	24	100	0.96	8.68	370	1000	< 0.0030	0.016	0.017	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.021	< 0.00020	0.37	1.25	< 0.0025	< 0.0020	3.13	
	06/30/23	6.4	39	91	0.89	8.03	380	850	< 0.0030	0.011	0.021	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.028	< 0.00020	0.32	< 0.711	< 0.0025	< 0.0020	1.87	
	09/07/23	5.1	25	100	0.93	7.75	390	940	< 0.0020	0.010	0.016	< 0.0010	< 0.00020	< 0.0050	< 0.00050	< 0.00050	0.019	< 0.00020	0.32	0.839	< 0.0050	< 0.0040	1.56	
	12/18/23	5.8	27	110	0.88	8.11	390	910	< 0.0030	0.012	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.35	1.42	< 0.0025	< 0.0020	2.61	
	03/06/24	5.5	38	97	0.82	8.06	420	910	^1+ < 0.0030	0.085	0.023	^1+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.028	< 0.00020	0.42	1.15	< 0.0025	< 0.0020	1.08	
	06/20/24	4.6	46	81	0.90	8.26	390	1000	< 0.0030	0.010	0.026	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.031	< 0.00020	0.38	2.67	< 0.0025	< 0.0020	0.61	
	08/28/24	5.6	43	81	0.77	7.77	410	970	^1+ < 0.0030	0.068	0.022	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.032	< 0.00020	0.43	1.82	< 0.0025	< 0.0020	1.63	
	11/22/24	5.1	37	86	0.93	7.74	390	880	< 0.0150	0.0074	0.023	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.027	< 0.00020	0.41	2.06	< 0.0025	< 0.0020	0.88	
	03/26/25	5.2	39	96	0.96	7.74	420	950	< 0.0030	0.0072	0.022	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.41	1.22	< 0.0025	< 0.0020	0.83	
	06/13/25	6.4	36	98	0.98	8.18	420	920	< 0.0030	0.010	0.023	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.025	< 0.00020	0.52	1.08	< 0.0025	< 0.0020	0.71	
	09/15/25	6.7	27	99	0.95	8.59	410	960	< 0.0030	0.010	0.020	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.023	< 0.00020	0.50	1.36	< 0.0025	< 0.0020	1.48	
	12/26/25	6.5	23	96	1.0	8.15	470	910	< 0.0030	0.011	0.020	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.022	< 0.00020	0.53	1.91	< 0.0025	< 0.0020	1.06	

Notes: All units are in mg/L with the exception of Radium (pCi/L).  
 B = Compound was found in blank and sample.  
 H = Sample prepped or analyzed past holding time.  
 NA = Not Analyzed. No confirmation sample required.  
 F1 = MS and/or MSD Recovery outside of limits.

^+ = Confirming calibration verification outside limits. High bias.  
 ^1+ = Initial verification calibration outside of limits, biased high.  
 ^ = Denotes instrument related QC exceeds the control limits  
 \* = LCS or LCSD is outside acceptance limits.

Table 2. Proposed Site-Specific Groundwater Protection Standards - Joliet #9 Lincoln Stone Quarry

Upgradient Well(s)	Parameter	Section 845.600 Standards	Interwell Background Prediction Limit	Proposed GWPS
G45S and T03S Pooled	Antimony	0.006	0.003	<b>0.006</b>
T03S	Arsenic	0.01	0.003	<b>0.01</b>
G45S	Barium	2	0.05	<b>2</b>
G45S and T03S Pooled	Beryllium	0.004	0.001	<b>0.004</b>
G45S	Boron	2.0	1.039	<b>2</b>
G45S and T03S Pooled	Cadmium	0.005	0.001	<b>0.005</b>
G45S	Chloride	200	232.4	<b>232.4</b>
G45S and T03S Pooled	Chromium	0.1	0.005	<b>0.1</b>
G45S	Cobalt	0.006	0.001	<b>0.006</b>
T03S	Combined Radium 226 + 228 (pCi/L)	5.0	1.922	<b>5.0</b>
G45S	Fluoride	4.0	0.389	<b>4.0</b>
G45S and T03S Pooled	Lead	0.0075	0.0023	<b>0.0075</b>
G45S	Lithium	0.04	0.042	<b>0.042</b>
G45S and T03S Pooled	Mercury	0.002	0.0002	<b>0.002</b>
G45S	Molybdenum	0.10	0.014	<b>0.10</b>
G45S and T03S Pooled	pH (standard units)	6.5-9.0	6.85-7.62	<b>6.5-9.0</b>
G45S and T03S Pooled	Selenium	0.05	0.003	<b>0.05</b>
G45S	Sulfate	400	369.6	<b>400</b>
G45S and T03S Pooled	Thallium	0.002	0.002	<b>0.002</b>
G45S	Total Dissolved Solids	1200	1053	<b>1200</b>
G45S	Calcium	NE	138.4	<b>138.4</b>
G45S and T03S Pooled	Turbidity	NE	94	<b>94</b>

All values are in mg/L (ppm) unless otherwise noted.

NE - Not Established

**Bold** - Site-specific Groundwater Protection Standard based on Section 845.600(a)(2)

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
RO88	Nov-2015	578.65	66.74	511.91
	May-2016	578.65	67.02	511.63
	Jun-2016	578.65	67.50	511.15
	Aug-2016	578.65	67.47	511.18
	Nov-2016	578.65	67.84	510.81
	Feb-2017	578.65	69.28	509.37
	May-2017	578.65	67.56	511.09
	Jul-2017	578.65	67.54	511.11
	Sep-2017	578.65	65.72	512.93
	Nov-2017	578.65	64.83	513.82
	Mar-2018	578.65	65.12	513.53
	May-2018	578.65	65.31	513.34
	Oct-2018	578.62	65.48	513.14
	May-2019	578.62	67.24	511.38
	Nov-2019	578.62	66.78	511.84
	Apr-2020	578.62	65.63	512.99
	Oct-2020	578.62	68.14	510.48
	Apr-2021	578.62	69.20	509.42
	May-2021	578.62	68.06	510.56
	Jun-2021	578.62	68.49	510.13
	Jul-2021	578.62	66.54	512.08
	Aug-2021	578.62	67.38	511.24
	Sep-2022	578.62	67.15	511.47
	Oct-2021	578.62	68.05	510.57
	Nov-2021	578.62	66.18	512.44
	Dec-2021	578.62	69.45	509.17
	Jan-2022	578.62	66.75	511.87
	Feb-2022	578.62	67.19	511.43
	Mar-2022	578.62	66.09	512.53
	Apr-2022	578.62	66.96	511.66
	May-2022	578.62	67.58	511.04
	Jun-2022	578.62	68.20	510.42
	Jul-2022	578.62	66.21	512.41
	Aug-2022	578.62	65.86	512.76
	Sep-2022	578.62	67.21	511.41
	Oct-2022	578.62	65.20	513.42
	Nov-2022	578.62	66.41	512.21
	Dec-2022	578.62	66.33	512.29
	Jan-2023	578.62	66.52	512.10
	Feb-2023	578.62	66.37	512.25
	Mar-2023	578.62	64.31	514.31
	Apr-2023	578.62	69.77	508.85
	May-2023	578.62	70.38	508.24
	Jun-2023	578.62	70.29	508.33
	Jul-2023	578.62	69.93	508.69
	Aug-2023	578.62	71.18	507.44
	Sep-2023	578.62	69.85	508.77
	Oct-2023	578.62	73.29	505.33
	Nov-2023	578.62	73.78	504.84
	Dec-2023	578.62	70.99	507.63
	Jan-2024	578.62	73.32	505.30
	Feb-2024	578.62	72.10	506.52
Mar-2024	578.62	73.39	505.23	
Apr-2024	578.62	70.14	508.48	
May-2024	578.62	68.11	510.51	
Jun-2024	578.62	70.59	508.03	
Jul-2024	578.62	70.00	508.62	
Aug-2024	578.62	70.21	508.41	
Sep-2024	578.62	73.09	505.53	
Oct-2024	578.64	73.14	505.50	
Nov-2024	578.64	73.49	505.15	
Dec-2024	578.64	73.66	504.98	
Jan-2025	578.64	82.00	496.64	
Feb-2025	578.64	73.70	504.94	
Mar-2025	578.64	74.02	504.62	
Apr-2025	578.64	70.79	507.85	
May-2025	578.64	70.06	508.58	
Jun-2025	578.64	70.29	508.35	
Jul-2025	578.64	70.61	508.03	
Aug-2025	578.64	70.43	508.21	
Sep-2025	578.64	71.23	507.41	
Oct-2025	578.64	71.99	506.65	
Nov-2025	578.64	72.13	506.51	
Dec-2025	578.64	72.10	506.54	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G208	Nov-2015	580.33	55.33	525.00
	May-2016	580.33	51.32	529.01
	Jun-2016	580.33	53.14	527.19
	Aug-2016	580.33	61.32	519.01
	Nov-2016	580.33	54.69	525.64
	Feb-2017	580.33	52.41	527.92
	May-2017	580.33	46.06	534.27
	Jul-2017	580.33	47.85	532.48
	Sep-2017	580.33	49.02	531.31
	Nov-2017	580.33	52.57	527.76
	Mar-2018	580.33	46.65	533.68
	May-2018	580.33	48.83	531.50
	Oct-2018	580.91	49.46	531.45
	May-2019	580.91	39.03	541.88
	Nov-2019	580.91	41.82	539.09
	Apr-2020	580.91	41.69	539.22
	Oct-2020	580.91	46.74	534.17
	Apr-2021	580.91	45.69	535.22
	May-2021	580.91	46.15	534.76
	Jun-2021	580.91	48.50	532.41
	Jul-2021	580.91	56.19	524.72
	Aug-2021	580.91	64.02	516.89
	Sep-2021	580.91	72.75	508.16
	Oct-2021	580.91	78.99	501.92
	Nov-2021	580.91	77.54	503.37
	Dec-2021	580.91	129.36	451.55
	Jan-2022	580.91	72.71	508.20
	Feb-2022	580.91	67.38	513.53
	Mar-2022	580.91	55.70	525.21
	Apr-2022	580.91	60.53	520.38
	May-2022	580.91	67.59	513.32
	Jun-2022	580.91	67.32	513.59
	Jul-2022	580.91	73.05	507.86
	Aug-2022	580.91	71.72	509.19
	Sep-2022	580.91	73.94	506.97
	Oct-2022	580.91	79.84	501.07
	Nov-2022	580.91	82.86	498.05
	Dec-2022	580.91	72.26	508.65
	Jan-2023	580.91	69.70	511.21
	Feb-2023	580.91	66.19	514.72
	Mar-2023	580.91	55.27	525.64
	Apr-2023	580.91	55.07	525.84
	May-2023	580.91	50.69	530.22
	Jun-2023	580.91	53.60	527.31
	Jul-2023	580.91	60.64	520.27
	Aug-2023	580.91	57.12	523.79
	Sep-2023	580.91	58.38	522.53
	Oct-2023	580.91	55.38	525.53
Nov-2023	580.91	53.54	527.37	
Dec-2023	580.91	54.10	526.81	
Jan-2024	580.91	56.36	524.55	
Feb-2024	580.91	51.01	529.90	
Mar-2024	580.91	61.25	519.66	
Apr-2024	580.91	54.29	526.62	
May-2024	580.91	48.51	532.40	
Jun-2024	580.91	47.98	532.93	
Jul-2024	580.91	53.79	527.12	
Aug-2024	580.91	55.15	525.76	
Sep-2024	580.91	73.09	507.82	
Oct-2024	580.79	57.02	523.77	
Nov-2024	580.79	69.99	510.80	
Dec-2024	580.79	68.05	512.74	
Jan-2025	580.79	67.75	513.04	
Feb-2025	580.79	72.23	508.56	
Mar-2025	580.79	69.12	511.67	
Apr-2025	580.79	76.70	504.09	
May-2025	580.79	78.29	502.50	
Jun-2025	580.79	73.23	507.56	
Jul-2025	580.79	73.88	506.91	
Aug-2025	580.79	72.03	508.76	
Sep-2025	580.79	64.48	516.31	
Oct-2025	580.79	68.34	512.45	
Nov-2025	580.79	67.58	513.21	
Dec-2025	580.79	64.46	516.33	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G30S	Nov-2015	524.40	2.74	521.66
	May-2016	524.40	2.53	521.87
	Jun-2016	524.40	3.54	520.86
	Aug-2016	524.40	2.45	521.95
	Nov-2016	524.40	2.57	521.83
	Feb-2017	524.40	2.13	522.27
	May-2017	524.40	1.69	522.71
	Jul-2017	524.40	1.96	522.44
	Sep-2017	524.40	1.84	522.56
	Nov-2017	524.40	1.48	522.92
	Mar-2018	524.40	1.48	522.92
	May-2018	524.40	1.62	522.78
	Oct-2018	524.70	2.51	522.19
	May-2019	524.70	1.57	523.13
	Nov-2019	524.70	1.53	523.17
	Apr-2020	524.70	1.03	523.67
	Oct-2020	524.70	2.19	522.51
	Apr-2021	524.70	2.55	522.15
	May-2021	524.70	2.37	522.33
	Jun-2021	524.70	2.53	522.17
	Jul-2021	524.70	2.32	522.38
	Aug-2021	524.70	2.45	522.25
	Sep-2021	524.70	2.65	522.05
	Oct-2021	524.70	2.43	522.27
	Nov-2021	524.70	2.20	522.50
	Dec-2021	524.70	2.21	522.49
	Jan-2022	524.70	2.25	522.45
	Feb-2022	524.70	2.01	522.69
	Mar-2022	524.70	2.02	522.68
	Apr-2022	524.70	1.84	522.86
	May-2022	524.70	1.77	522.93
	Jun-2022	524.70	1.82	522.88
	Jul-2022	524.70	1.18	523.52
	Aug-2022	524.70	1.65	523.05
	Sep-2022	524.70	2.59	522.11
	Oct-2022	524.70	2.61	522.09
	Nov-2022	524.70	2.60	522.10
	Dec-2022	524.70	2.48	522.22
	Jan-2023	524.70	2.42	522.28
	Feb-2023	524.70	2.26	522.44
	Mar-2023	524.70	2.31	522.39
	Apr-2023	524.70	2.21	522.49
	May-2023	524.70	2.82	521.88
	Jun-2023	524.70	2.44	522.26
	Jul-2023	524.70	2.29	522.41
	Aug-2023	524.70	2.30	522.40
	Sep-2023	524.70	2.06	522.64
	Oct-2023	524.70	2.10	522.60
	Nov-2023	524.70	2.65	522.05
	Dec-2023	524.70	2.10	522.60
	Jan-2024	524.70	2.10	522.60
	Feb-2024	524.70	1.93	522.77
Mar-2024	524.70	1.97	522.73	
Apr-2024	524.70	1.47	523.23	
May-2024	524.70	1.69	523.01	
Jun-2024	524.70	1.49	523.21	
Jul-2024	524.70	1.49	523.21	
Aug-2024	524.70	1.45	523.25	
Sep-2024	524.70	1.54	523.16	
Oct-2024	524.78	1.54	523.24	
Nov-2024	524.78	1.79	522.99	
Dec-2024	524.78	1.89	522.89	
Jan-2025	524.78	1.80	522.98	
Feb-2025	524.78	1.79	522.99	
Mar-2025	524.78	1.81	522.97	
Apr-2025	524.78	1.75	523.03	
May-2025	524.78	1.59	523.19	
Jun-2025	524.78	1.76	523.02	
Jul-2025	524.78	1.84	522.94	
Aug-2025	524.78	2.78	522.00	
Sep-2025	524.78	1.74	523.04	
Oct-2025	524.78	2.04	522.74	
Nov-2025	524.78	2.12	522.66	
Dec-2025	524.78	2.03	522.75	

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 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
R32S	Nov-2015	536.81	19.99	516.82
	May-2016	536.81	19.72	517.09
	Jun-2016	536.81	20.51	516.30
	Aug-2016	536.81	20.51	516.30
	Nov-2016	536.81	20.24	516.57
	Feb-2017	536.81	21.12	515.69
	May-2017	536.81	19.33	517.48
	Jul-2017	536.81	19.38	517.43
	Sep-2017	536.81	17.91	518.90
	Nov-2017	536.81	16.32	520.49
	Mar-2018	536.81	16.98	519.83
	May-2018	536.81	20.26	516.55
	Oct-2018	536.99	18.32	518.67
	May-2019	536.99	19.28	517.71
	Nov-2019	536.99	19.09	517.90
	Apr-2020	536.99	17.74	519.25
	Oct-2020	536.99	20.76	516.23
	Apr-2021	536.99	22.06	514.93
	May-2021	536.99	21.41	515.58
	Jun-2021	536.99	21.19	515.80
	Jul-2021	536.99	19.69	517.30
	Aug-2021	536.99	NM	NM
	Sep-2021	536.99	21.18	515.81
	Oct-2021	536.99	20.91	516.08
	Nov-2021	536.99	19.17	517.82
	Dec-2021	536.99	21.74	515.25
	Jan-2022	536.99	19.69	517.30
	Feb-2022	536.99	20.06	516.93
	Mar-2022	536.99	19.68	517.31
	Apr-2022	536.99	19.80	517.19
	May-2022	536.99	20.09	516.90
	Jun-2022	536.99	20.49	516.50
	Jul-2022	536.99	18.70	518.29
	Aug-2022	536.99	20.59	516.40
	Sep-2022	536.99	20.17	516.82
	Oct-2022	536.99	18.28	518.71
	Nov-2022	536.99	19.28	517.71
	Dec-2022	536.99	18.35	518.64
	Jan-2023	536.99	19.31	517.68
	Feb-2023	536.99	19.36	517.63
	Mar-2023	536.99	22.18	514.81
	Apr-2023	536.99	21.92	515.07
	May-2023	536.99	22.41	514.58
	Jun-2023	536.99	22.35	514.64
	Jul-2023	536.99	22.15	514.84
	Aug-2023	536.99	22.95	514.04
	Sep-2023	536.99	22.34	514.65
	Oct-2023	536.99	24.92	512.07
	Nov-2023	536.99	25.28	511.71
	Dec-2023	536.99	22.74	514.25
	Jan-2024	536.99	24.81	512.18
	Feb-2024	536.99	24.35	512.64
Mar-2024	536.99	24.73	512.26	
Apr-2024	536.99	21.93	515.06	
May-2024	536.99	20.11	516.88	
Jun-2024	536.99	22.13	514.86	
Jul-2024	536.99	21.60	515.39	
Aug-2024	536.99	21.74	515.25	
Sep-2024	536.99	24.06	512.93	
Oct-2024	537.04	24.10	512.94	
Nov-2024	537.04	24.83	512.21	
Dec-2024	537.04	24.85	512.19	
Jan-2025	537.04	24.58	512.46	
Feb-2025	537.04	24.90	512.14	
Mar-2025	537.04	25.13	511.91	
Apr-2025	537.04	22.65	514.39	
May-2025	537.04	22.00	515.04	
Jun-2025	537.04	22.24	514.80	
Jul-2025	537.04	22.31	514.73	
Aug-2025	537.04	22.25	514.79	
Sep-2025	537.04	22.91	514.13	
Oct-2025	537.04	23.81	513.23	
Nov-2025	537.04	24.01	513.03	
Dec-2025	537.04	23.98	513.06	

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 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G44S	Nov-2015	586.69	80.54	506.15
	May-2016	586.69	80.42	506.27
	Jun-2016	586.69	80.68	506.01
	Aug-2016	586.69	80.65	506.04
	Nov-2016	586.69	80.69	506.00
	Feb-2017	586.69	84.34	502.35
	May-2017	586.69	82.14	504.55
	Jul-2017	586.69	81.13	505.56
	Sep-2017	586.69	80.15	506.54
	Nov-2017	586.69	77.10	509.59
	Mar-2018	586.69	78.74	507.95
	May-2018	586.69	80.17	506.52
	Oct-2018	586.53	78.21	508.32
	May-2019	586.53	80.05	506.48
	Nov-2019	586.53	79.96	506.57
	Apr-2020	586.53	79.25	507.28
	Oct-2020	586.53	81.51	505.02
	Apr-2021	586.53	82.51	504.02
	May-2021	586.53	80.80	505.73
	Jun-2021	586.53	82.21	504.32
	Jul-2021	586.53	79.66	506.87
	Aug-2021	586.53	80.80	505.73
	Sep-2021	586.53	80.90	505.63
	Oct-2021	586.53	77.51	509.02
	Nov-2021	586.53	66.28	520.25
	Dec-2021	586.53	82.71	503.82
	Jan-2022	586.53	80.30	506.23
	Feb-2022	586.53	81.07	505.46
	Mar-2022	586.53	79.64	506.89
	Apr-2022	586.53	78.65	507.88
	May-2022	586.53	89.85	496.68
	Jun-2022	586.53	80.75	505.78
	Jul-2022	586.53	80.09	506.44
	Aug-2022	586.53	79.01	507.52
	Sep-2022	586.53	80.24	506.29
	Oct-2022	586.53	78.82	507.71
	Nov-2022	586.53	79.79	506.74
	Dec-2022	586.53	80.89	505.64
	Jan-2023	586.53	80.04	506.49
	Feb-2023	586.53	80.59	505.94
	Mar-2023	586.53	78.52	508.01
	Apr-2023	586.53	82.13	504.40
	May-2023	586.53	83.05	503.48
	Jun-2023	586.53	83.12	503.41
	Jul-2023	586.53	32.61	553.92
	Aug-2023	586.53	52.75	533.78
	Sep-2023	586.53	82.75	503.78
	Oct-2023	586.53	85.46	501.07
	Nov-2023	586.53	86.11	500.42
	Dec-2023	586.53	83.45	503.08
Jan-2024	586.53	85.51	501.02	
Feb-2024	586.53	84.59	501.94	
Mar-2024	586.53	85.57	500.96	
Apr-2024	586.53	81.46	505.07	
May-2024	586.53	79.63	506.90	
Jun-2024	586.53	82.25	504.28	
Jul-2024	586.53	82.04	504.49	
Aug-2024	586.53	82.42	504.11	
Sep-2024	586.53	85.12	501.41	
Oct-2024	586.62	85.51	501.11	
Nov-2024	586.62	85.61	501.01	
Dec-2024	586.62	85.95	500.67	
Jan-2025	586.62	85.61	501.01	
Feb-2025	586.62	86.11	500.51	
Mar-2025	586.62	86.35	500.27	
Apr-2025	586.62	83.26	503.36	
May-2025	586.62	82.41	504.21	
Jun-2025	586.62	82.73	503.89	
Jul-2025	586.62	83.20	503.42	
Aug-2025	586.62	83.03	503.59	
Sep-2025	586.62	83.60	503.02	
Oct-2025	586.62	84.23	502.39	
Nov-2025	586.62	84.51	502.11	
Dec-2025	586.62	84.46	502.16	

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 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G45S	Nov-2015	603.31	68.90	534.41
	May-2016	603.31	67.28	536.03
	Jun-2016	603.31	68.88	534.43
	Aug-2016	603.31	68.39	534.92
	Nov-2016	603.31	66.69	536.62
	Feb-2017	603.31	65.34	537.97
	May-2017	603.31	63.07	540.24
	Jul-2017	603.31	63.44	539.87
	Sep-2017	603.31	63.10	540.21
	Nov-2017	603.31	62.28	541.03
	Mar-2018	603.31	61.82	541.49
	May-2018	603.31	68.50	534.81
	Oct-2018	603.90	66.74	537.16
	May-2019	603.90	62.72	541.18
	Nov-2019	603.90	62.38	541.52
	Apr-2020	603.90	60.10	543.80
	Oct-2020	603.90	65.51	538.39
	Apr-2021	603.90	67.71	536.19
	May-2021	603.90	67.32	536.58
	Jun-2021	603.90	67.41	536.49
	Jul-2021	603.90	66.55	537.35
	Aug-2021	603.90	66.74	537.16
	Sep-2021	603.90	66.87	537.03
	Oct-2021	603.90	66.94	536.96
	Nov-2021	603.90	66.28	537.62
	Dec-2021	603.90	66.15	537.75
	Jan-2022	603.90	66.16	537.74
	Feb-2022	603.90	66.13	537.77
	Mar-2022	603.90	65.50	538.40
	Apr-2022	603.90	64.85	539.05
	May-2022	603.90	64.13	539.77
	Jun-2022	603.90	64.07	539.83
	Jul-2022	603.90	64.36	539.54
	Aug-2022	603.90	53.95	549.95
	Sep-2022	603.90	67.31	536.59
	Oct-2022	603.90	67.47	536.43
	Nov-2022	603.90	67.51	536.39
	Dec-2022	603.90	67.78	536.12
	Jan-2023	603.90	67.34	536.56
	Feb-2023	603.90	67.42	536.48
	Mar-2023	603.90	66.14	537.76
	Apr-2023	603.90	66.11	537.79
	May-2023	603.90	66.12	537.78
	Jun-2023	603.90	66.33	537.57
	Jul-2023	603.90	66.21	537.69
	Aug-2023	603.90	66.20	537.70
	Sep-2023	603.90	65.12	538.78
	Oct-2023	603.90	65.89	538.01
	Nov-2023	603.90	66.51	537.39
	Dec-2023	603.90	66.45	537.45
	Jan-2024	603.90	65.20	538.70
	Feb-2024	603.90	64.97	538.93
Mar-2024	603.90	64.95	538.95	
Apr-2024	603.90	60.83	543.07	
May-2024	603.90	63.22	540.68	
Jun-2024	603.90	62.52	541.38	
Jul-2024	603.90	62.45	541.45	
Aug-2024	603.90	62.39	541.51	
Sep-2024	603.90	62.62	541.28	
Oct-2024	603.81	62.73	541.08	
Nov-2024	603.81	64.55	539.26	
Dec-2024	603.81	64.63	539.18	
Jan-2025	603.81	64.51	539.30	
Feb-2025	603.81	64.50	539.31	
Mar-2025	603.81	64.39	539.42	
Apr-2025	603.81	64.17	539.64	
May-2025	603.81	63.69	540.12	
Jun-2025	603.81	63.98	539.83	
Jul-2025	603.81	64.15	539.66	
Aug-2025	603.81	64.27	539.54	
Sep-2025	603.81	64.12	539.69	
Oct-2025	603.81	65.60	538.21	
Nov-2025	603.81	65.78	538.03	
Dec-2025	603.81	65.83	537.98	

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 TOC - Top of Casing  
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 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G46S	Nov-2015	601.32	95.78	505.54
	May-2016	601.32	96.74	504.58
	Jun-2016	601.32	97.31	504.01
	Aug-2016	601.32	97.32	504.00
	Nov-2016	601.32	97.50	503.82
	Feb-2017	601.32	98.14	503.18
	May-2017	601.32	98.43	502.89
	Jul-2017	601.32	98.96	502.36
	Sep-2017	601.32	96.61	504.71
	Nov-2017	601.32	95.65	505.67
	Mar-2018	601.32	96.80	504.52
	May-2018	601.32	95.59	505.73
	Oct-2018	601.43	91.34	510.09
	May-2019	601.43	101.40	500.03
	Nov-2019	601.43	100.01	503.83
	Apr-2020	601.43	100.19	501.24
	Oct-2020	601.43	101.44	499.99
	Apr-2021	601.43	103.09	498.34
	May-2021	601.43	99.02	502.41
	Jun-2021	601.43	100.03	501.40
	Jul-2021	601.43	94.99	506.44
	Aug-2021	601.43	99.46	501.97
	Sep-2021	601.43	99.09	502.34
	Oct-2021	601.43	100.36	501.07
	Nov-2021	601.43	95.22	506.21
	Dec-2021	601.43	105.28	496.15
	Jan-2022	601.43	95.79	505.64
	Feb-2022	601.43	95.75	505.68
	Mar-2022	601.43	95.71	505.72
	Apr-2022	601.43	105.41	496.02
	May-2022	601.43	102.83	498.60
	Jun-2022	601.43	103.40	498.03
	Jul-2022	601.43	105.51	495.92
	Aug-2022	601.43	107.49	493.94
	Sep-2022	601.43	96.60	504.83
	Oct-2022	601.43	92.39	509.04
	Nov-2022	601.43	93.24	508.19
	Dec-2022	601.43	93.90	507.53
	Jan-2023	601.43	94.61	506.82
	Feb-2023	601.43	95.79	505.64
	Mar-2023	601.43	91.99	509.44
	Apr-2023	601.43	106.56	494.87
	May-2023	601.43	108.96	492.47
	Jun-2023	601.43	104.26	497.17
	Jul-2023	601.43	105.51	495.92
	Aug-2023	601.43	105.75	495.68
	Sep-2023	601.43	106.12	495.31
	Oct-2023	601.43	107.45	493.98
	Nov-2023	601.43	112.32	489.11
	Dec-2023	601.43	109.48	491.95
	Jan-2024	601.43	111.39	490.04
	Feb-2024	601.43	111.22	490.21
Mar-2024	601.43	109.54	491.89	
Apr-2024	601.43	105.54	495.89	
May-2024	601.43	98.68	502.75	
Jun-2024	601.43	102.09	499.34	
Jul-2024	601.43	101.72	499.71	
Aug-2024	601.43	101.13	500.30	
Sep-2024	601.43	108.30	493.13	
Oct-2024	601.32	113.33	487.99	
Nov-2024	601.32	109.53	491.79	
Dec-2024	601.32	108.79	492.53	
Jan-2025	601.32	111.90	489.42	
Feb-2025	601.32	108.94	492.38	
Mar-2025	601.32	113.22	488.10	
Apr-2025	601.32	110.63	490.69	
May-2025	601.32	107.74	493.58	
Jun-2025	601.32	105.96	495.36	
Jul-2025	601.32	101.95	499.37	
Aug-2025	601.32	100.84	500.48	
Sep-2025	601.32	102.50	498.82	
Oct-2025	601.32	103.32	498.00	
Nov-2025	601.32	103.73	497.59	
Dec-2025	601.32	103.51	497.81	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G47S	Nov-2015	612.32	99.44	512.88
	May-2016	612.32	95.48	516.84
	Jun-2016	612.32	96.58	515.74
	Aug-2016	612.32	96.79	515.53
	Nov-2016	612.32	88.96	523.36
	Feb-2017	612.32	96.41	515.91
	May-2017	612.32	92.61	519.71
	Jul-2017	612.32	93.53	518.79
	Sep-2017	612.32	93.50	518.82
	Nov-2017	612.32	92.57	519.75
	Mar-2018	612.32	93.63	518.69
	May-2018	612.32	93.51	518.81
	Oct-2018	612.10	96.29	515.81
	May-2019	612.10	91.78	520.32
	Nov-2019	612.10	91.98	520.12
	Apr-2020	612.10	89.34	522.76
	Oct-2020	612.10	86.78	525.32
	Apr-2021	612.10	96.78	515.32
	May-2021	612.10	96.77	515.33
	Jun-2021	612.10	96.78	515.32
	Jul-2021	612.10	94.99	517.11
	Aug-2021	612.10	95.92	516.18
	Sep-2021	612.10	96.51	515.59
	Oct-2021	612.10	96.84	515.26
	Nov-2021	612.10	95.49	516.61
	Dec-2021	612.10	95.98	516.12
	Jan-2022	612.10	95.61	516.49
	Feb-2022	612.10	96.08	516.02
	Mar-2022	612.10	94.26	517.84
	Apr-2022	612.10	92.90	519.20
	May-2022	612.10	92.19	519.91
	Jun-2022	612.10	92.26	519.84
	Jul-2022	612.10	93.24	518.86
	Aug-2022	612.10	86.20	525.90
	Sep-2022	612.10	88.85	523.25
	Oct-2022	612.10	88.50	523.60
	Nov-2022	612.10	95.24	516.86
	Dec-2022	612.10	96.57	515.53
	Jan-2023	612.10	96.16	515.94
	Feb-2023	612.10	96.20	515.90
	Mar-2023	612.10	94.95	517.15
	Apr-2023	612.10	94.75	517.35
	May-2023	612.10	95.10	517.00
	Jun-2023	612.10	95.05	517.05
	Jul-2023	612.10	94.38	517.72
	Aug-2023	612.10	95.11	516.99
	Sep-2023	612.10	95.26	516.84
	Oct-2023	612.10	95.74	516.36
	Nov-2023	612.10	95.95	516.15
	Dec-2023	612.10	95.82	516.28
	Jan-2024	612.10	95.84	516.26
	Feb-2024	612.10	94.24	517.86
Mar-2024	612.10	94.73	517.37	
Apr-2024	612.10	92.96	519.14	
May-2024	612.10	91.45	520.65	
Jun-2024	612.10	91.15	520.95	
Jul-2024	612.10	91.39	520.71	
Aug-2024	612.10	91.66	520.44	
Sep-2024	612.10	92.65	519.45	
Oct-2024	612.16	92.63	519.53	
Nov-2024	612.16	94.99	517.17	
Dec-2024	612.16	94.78	517.38	
Jan-2025	612.16	95.35	516.81	
Feb-2025	612.16	95.29	516.87	
Mar-2025	612.16	95.51	516.65	
Apr-2025	612.16	94.80	517.36	
May-2025	612.16	94.24	517.92	
Jun-2025	612.16	94.60	517.56	
Jul-2025	612.16	94.50	517.66	
Aug-2025	612.16	94.54	517.62	
Sep-2025	612.16	94.65	517.51	
Oct-2025	612.16	95.63	516.53	
Nov-2025	612.16	95.75	516.41	
Dec-2025	612.16	96.11	516.05	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
G488	Nov-2015	620.77	106.83	513.94
	May-2016	620.77	105.20	515.57
	Jun-2016	620.77	104.95	515.82
	Aug-2016	620.77	104.77	516.00
	Nov-2016	620.77	102.41	518.36
	Feb-2017	620.77	103.05	517.72
	May-2017	620.77	100.06	520.71
	Jul-2017	620.77	102.31	518.46
	Sep-2017	620.77	102.88	517.89
	Nov-2017	620.77	100.83	519.94
	Mar-2018	620.77	99.77	521.00
	May-2018	620.77	100.74	520.03
	Oct-2018	620.78	105.79	514.99
	May-2019	620.78	98.18	522.60
	Nov-2019	620.78	98.30	522.48
	Apr-2020	620.78	95.54	525.24
	Oct-2020	620.78	100.63	520.15
	Apr-2021	620.78	104.98	515.80
	May-2021	620.78	103.69	517.09
	Jun-2021	620.78	NM	NM
	Jul-2021	620.78	100.85	519.93
	Aug-2021	620.78	95.92	524.86
	Sep-2021	620.78	105.19	515.59
	Oct-2021	620.78	106.32	514.46
	Nov-2021	620.78	103.91	516.87
	Dec-2021	620.78	105.09	515.69
	Jan-2022	620.78	104.97	515.81
	Feb-2022	620.78	105.59	515.19
	Mar-2022	620.78	104.27	516.51
	Apr-2022	620.78	101.51	519.27
	May-2022	620.78	101.03	519.75
	Jun-2022	620.78	101.51	519.27
	Jul-2022	620.78	102.06	518.72
	Aug-2022	620.78	99.48	521.30
	Sep-2022	620.78	104.86	515.92
	Oct-2022	620.78	105.38	515.40
	Nov-2022	620.78	105.42	515.36
	Dec-2022	620.78	105.61	515.17
	Jan-2023	620.78	104.83	515.95
	Feb-2023	620.78	104.72	516.06
	Mar-2023	620.78	103.74	517.04
	Apr-2023	620.78	103.35	517.43
	May-2023	620.78	104.10	516.68
	Jun-2023	620.78	104.53	516.25
	Jul-2023	620.78	103.51	517.27
	Aug-2023	620.78	103.54	517.24
	Sep-2023	620.78	103.25	517.53
	Oct-2023	620.78	103.04	517.74
Nov-2023	620.78	103.26	517.52	
Dec-2023	620.78	104.71	516.07	
Jan-2024	620.78	104.38	516.40	
Feb-2024	620.78	102.75	518.03	
Mar-2024	620.78	103.99	516.79	
Apr-2024	620.78	102.04	518.74	
May-2024	620.78	99.81	520.97	
Jun-2024	620.78	100.03	520.75	
Jul-2024	620.78	100.05	520.73	
Aug-2024	620.78	101.24	519.54	
Sep-2024	620.78	101.72	519.06	
Oct-2024	620.73	102.90	517.83	
Nov-2024	620.73	105.00	515.73	
Dec-2024	620.73	104.79	515.94	
Jan-2025	620.73	104.45	516.28	
Feb-2025	620.73	104.18	516.55	
Mar-2025	620.73	104.08	516.65	
Apr-2025	620.73	103.34	517.39	
May-2025	620.73	104.10	516.63	
Jun-2025	620.73	104.84	515.89	
Jul-2025	620.73	105.43	515.30	
Aug-2025	620.73	105.72	515.01	
Sep-2025	620.73	105.48	515.25	
Oct-2025	620.73	105.81	514.92	
Nov-2025	620.73	105.71	515.02	
Dec-2025	620.73	105.79	514.94	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 3. Groundwater Elevations, Midwest Generation, LLC, Joliet Station #9.

Well ID	Date <sup>1</sup>	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
T03S	Nov-2015	629.65	136.30	493.35
	May-2016	629.65	135.24	494.41
	Jun-2016	629.65	134.26	495.39
	Aug-2016	629.65	134.13	495.52
	Nov-2016	629.65	135.03	494.62
	Feb-2017	629.65	134.92	494.73
	May-2017	629.65	131.87	497.78
	Jul-2017	629.65	135.99	493.66
	Sep-2017	629.65	136.40	493.25
	Nov-2017	629.65	133.61	496.04
	Mar-2018	629.65	131.05	498.60
	May-2018	629.65	134.42	495.23
	Oct-2018	629.89	140.03	489.86
	May-2019	629.89	125.79	504.10
	Oct-2019	629.89	132.92	496.97
	Apr-2020	629.89	133.84	496.05
	Oct-2020	629.89	135.88	494.01
	Apr-2021	629.89	138.78	491.11
	May-2021	629.89	NM	NM
	Jun-2021	629.89	138.84	491.05
	Jul-2021	629.89	134.89	495.00
	Aug-2021	629.89	NM	NM
	Sep-2021	629.89	139.69	490.20
	Oct-2021	629.89	141.48	488.41
	Nov-2021	629.89	138.02	491.87
	Dec-2021	629.89	139.40	490.49
	Jan-2022	629.89	139.64	490.25
	Feb-2022	629.89	140.43	489.46
	Mar-2022	629.89	138.79	491.10
	Apr-2022	629.89	133.53	496.36
	May-2022	629.89	134.64	495.25
	Jun-2022	629.89	134.89	495.00
	Jul-2022	629.89	135.18	494.71
	Aug-2022	629.89	134.83	495.06
	Sep-2022	629.89	140.62	489.27
	Oct-2022	629.89	140.18	489.71
	Nov-2022	629.89	140.29	489.60
	Dec-2022	629.89	140.69	489.20
	Jan-2023	629.89	140.43	489.46
	Feb-2023	629.89	141.27	488.62
	Mar-2023	629.89	140.25	489.64
	Apr-2023	629.89	139.07	490.82
	May-2023	629.89	138.25	491.64
	Jun-2023	629.89	140.27	489.62
	Jul-2023	629.89	139.44	490.45
	Aug-2023	629.89	140.48	489.41
	Sep-2023	629.89	138.60	491.29
	Oct-2023	629.89	141.45	488.44
	Nov-2023	629.89	141.38	488.51
	Dec-2023	629.89	142.03	487.86
	Jan-2024	629.89	141.48	488.41
	Feb-2024	629.89	138.38	491.51
Mar-2024	629.89	140.69	489.20	
Apr-2024	629.89	136.60	493.29	
May-2024	629.89	134.00	495.89	
Jun-2024	629.89	134.94	494.95	
Jul-2024	629.89	134.89	495.00	
Aug-2024	629.89	135.86	494.03	
Sep-2024	629.89	137.44	492.45	
Oct-2024	629.73	139.68	490.05	
Nov-2024	629.73	141.63	488.10	
Dec-2024	629.73	141.46	488.27	
Jan-2025	629.73	141.70	488.03	
Feb-2025	629.73	142.19	487.54	
Mar-2025	629.73	142.10	487.63	
Apr-2025	629.73	140.94	488.79	
May-2025	629.73	139.56	490.17	
Jun-2025	629.73	140.13	489.60	
Jul-2025	629.73	139.84	489.89	
Aug-2025	629.73	139.00	490.73	
Sep-2025	629.73	139.37	490.36	
Oct-2025	629.73	140.22	489.51	
Nov-2025	629.73	140.69	489.04	
Dec-2025	629.73	140.74	488.99	

MSL - Mean Sea Level  
 TOC - Top of Casing  
<sup>1</sup> - Date of water levels collected at beginning of quarter, actual sample date may vary.  
 NM - Not Measured

Table 4. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Joliet #9 Generation Station (Lincoln Stone Quarry).

DATE	Natural Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
January-25	Northerly and Westerly	1.38E-05	0.0776	0.05	1.85
February-25	Northerly and Westerly	1.38E-05	0.0796	0.05	1.90
March-25	Northerly and Westerly	1.38E-05	0.0435	0.05	1.04
April-25	Northerly and Westerly	1.38E-05	0.0951	0.05	2.27
May-25	Northerly and Westerly	1.38E-05	0.1229	0.05	2.93
June-25	Northerly and Westerly	1.38E-05	0.0889	0.05	2.12
July-25	Northerly and Westerly	1.38E-05	0.0435	0.05	1.04
August-25	Northerly and Westerly	1.38E-05	0.0703	0.05	1.68
September-25	Northerly and Westerly	1.38E-05	0.0362	0.05	0.86
October-25	Northerly and Westerly	1.38E-05	0.0410	0.05	0.98
November-25	Northerly and Westerly	1.38E-05	0.0754	0.05	1.80
December-25	Northerly and Westerly	1.38E-05	0.0308	0.05	0.73

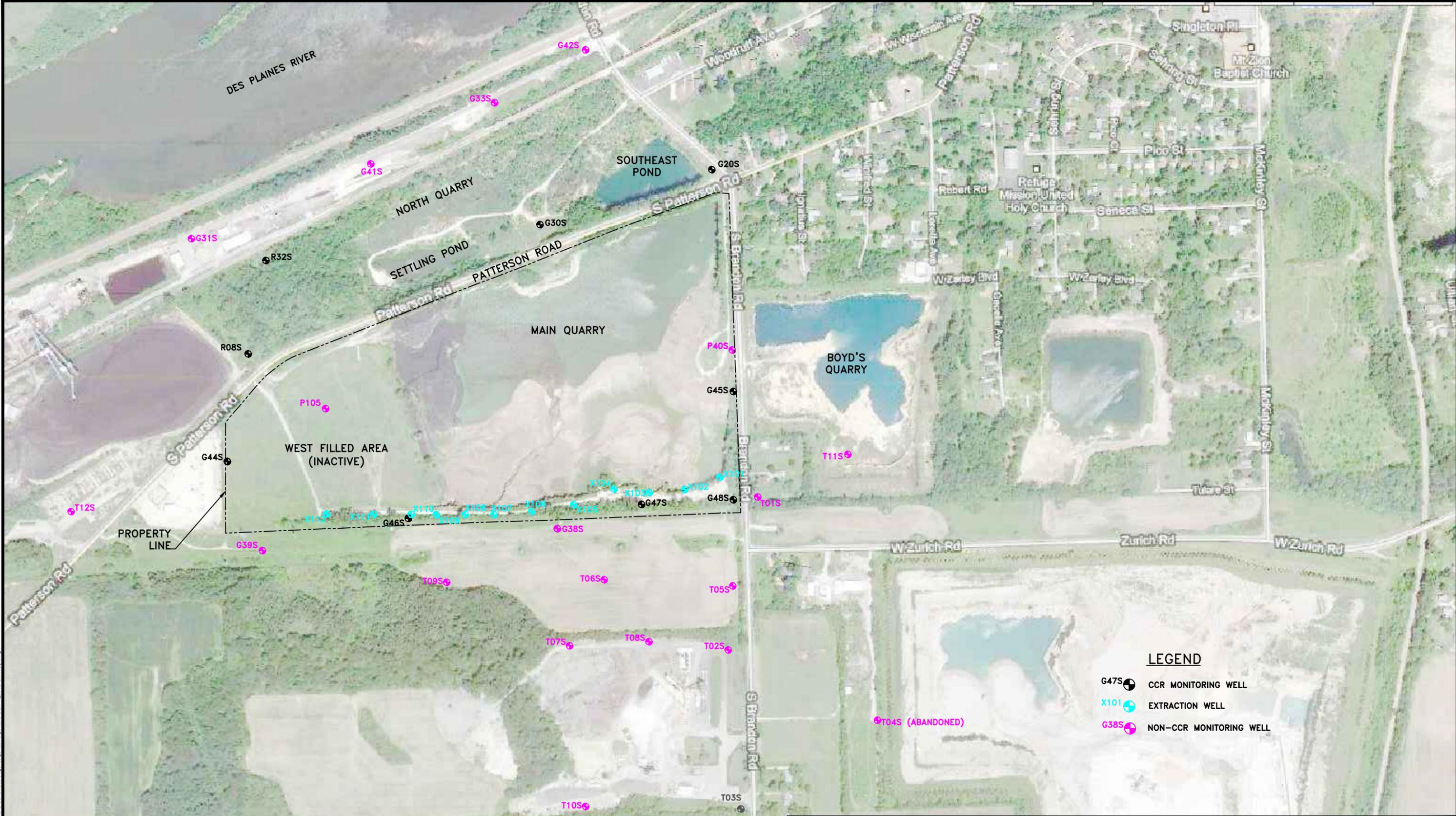
\* Kavg - Average hydraulic conductivity (feet/second) from Revised Groundwater Impacts assessment Lincoln Stone Quarry, 3/13/2013.

\*\* - Porosity estimate from Revised Groundwater Impacts assessment Lincoln Stone Quarry, 3/13/2013.

Table 5. CCR Groundwater Sample Collection Summary for 2025 - Joliet #9 Lincoln Stone Quarry

Well ID	Number of Groundwater Sampling Events	Dates of Groundwater Sampling Events
G45S (Upgradient)	4	3/26/2025
		6/12/2025
		9/18/2025
		12/26/2025
T03S (Upgradient)	4	3/24/2025
		6/16/2025
		9/10/2025
		12/23/2025
R08S (Downgradient)	4	3/24/2025
		6/13/2025
		9/16/2025
		12/23/2025
G20S (Downgradient)	4	3/21/2025
		6/11/2025
		9/16/2025
		12/22/2025
G30S (Downgradient)	4	3/21/2025
		6/11/2025
		9/18/2025
		12/22/2025
R32S (Downgradient)	4	3/24/2025
		6/16/2025
		9/18/2025
		12/23/2025
G44S (Downgradient)	4	3/26/2025
		6/12/2025
		9/19/2025
		12/26/2025
G46S (Downgradient)	4	3/24/2025
		6/12/2025
		9/16/2025
		12/26/2025
G47S (Downgradient)	4	3/26/2025
		6/16/2025
		9/15/2025
		12/26/2025
G48S (Downgradient)	4	3/26/2025
		6/13/2025
		9/15/2025
		12/26/2025

## **FIGURES**



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ENVIRONMENTAL CONSULTATION & REMEDIATION

# K P R G

KPRG and Associates, Inc.  
 14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478  
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- LEGEND**
- G47S CCR MONITORING WELL
  - X101 EXTRACTION WELL
  - G38S NON-CCR MONITORING WELL

<b>CCR GROUNDWATER MONITORING NETWORK SITE MAP</b>	
<b>LINCOLN STONE QUARRY JOLIET, ILLINOIS</b>	
Scale: 1" = 450'	Date: January 20, 2026
KPRG Project No. 21406.19	FIGURE 1

R08S	
PARAMETER	RESULT
BORON	8.1
CALCIUM	140
SULFATE	460
LITHIUM	0.13
MOLYBDENUM	0.33

R32S	
PARAMETER	RESULT
BORON	2.1
LITHIUM	0.051
MOLYBDENUM	0.24

G30S	
PARAMETER	RESULT
BORON	4.9
SULFATE	540
TDS	1300

G48S	
PARAMETER	RESULT
BORON	6.5
SULFATE	470
ARSENIC	0.011
MOLYBDENUM	0.53

G46S	
PARAMETER	RESULT
BORON	9.6
CALCIUM	140
SULFATE	570
ARSENIC	0.061
LITHIUM	0.21
MOLYBDENUM	1.2

G47S	
PARAMETER	RESULT
BORON	6.8
pH	9.17
SULFATE	500
ARSENIC	0.028
MOLYBDENUM	0.53

G44S	
PARAMETER	RESULT
CALCIUM	140
MOLYBDENUM	0.23

T03S	
PARAMETER	RESULT
CALCIUM	140

NOTES:  
RESULTS ARE IN MILLIGRAMS PER LITER (mg/L)

**LEGEND**

G47S  CCR MONITORING WELL

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ENVIRONMENTAL CONSULTATION & REMEDIATION

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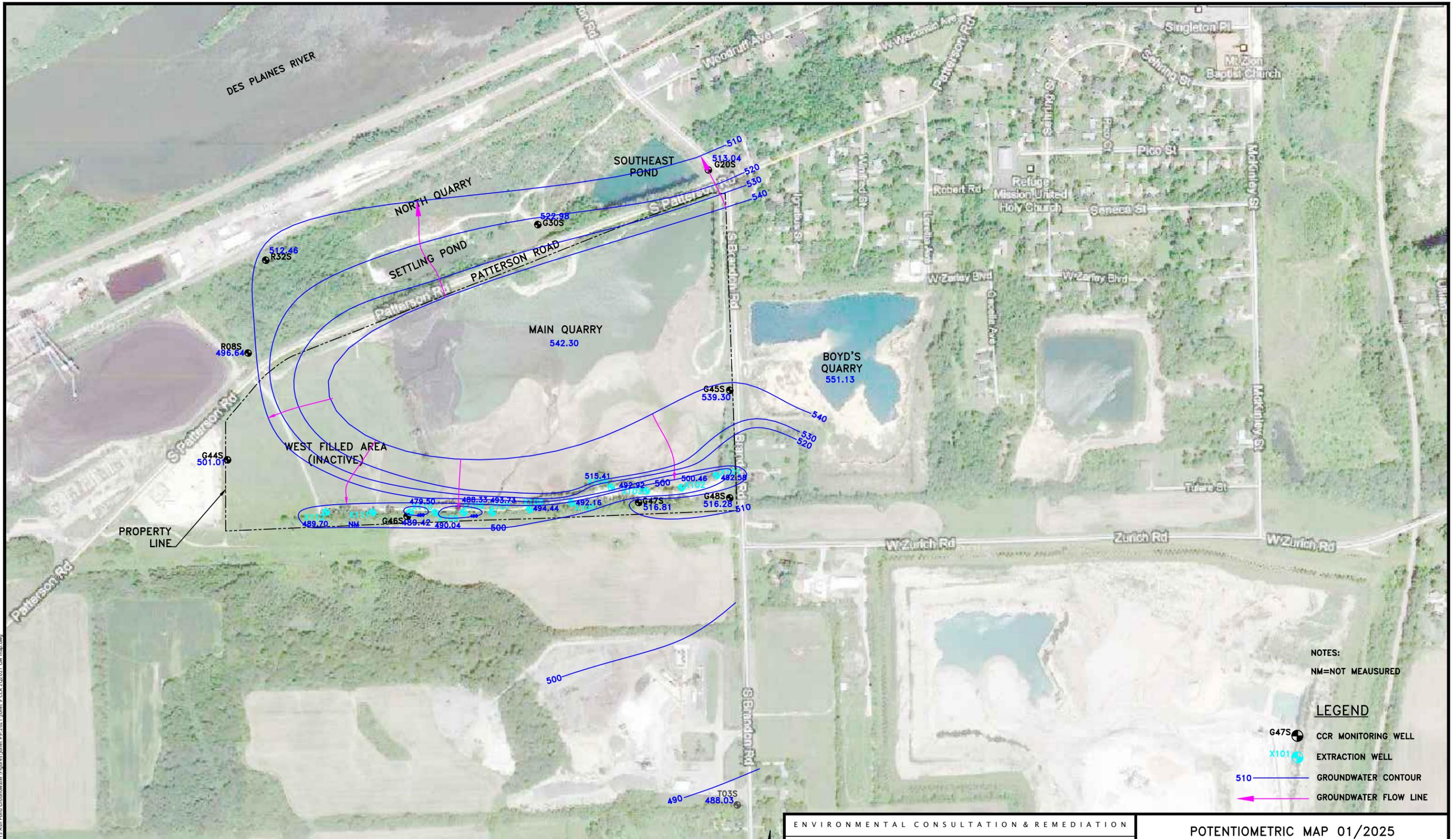
4Q2025 AREAL DISTRIBUTION MAP OF PARAMETERS ABOVE PROPOSED GWPSs

LINCOLN STONE QUARRY  
JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 20, 2026

KPRG Project No. 21406.19 | FIGURE 2

**ATTACHMENT 1**  
**Monthly Potentiometric Maps**



NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



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POTENTIOMETRIC MAP 01/2025

LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

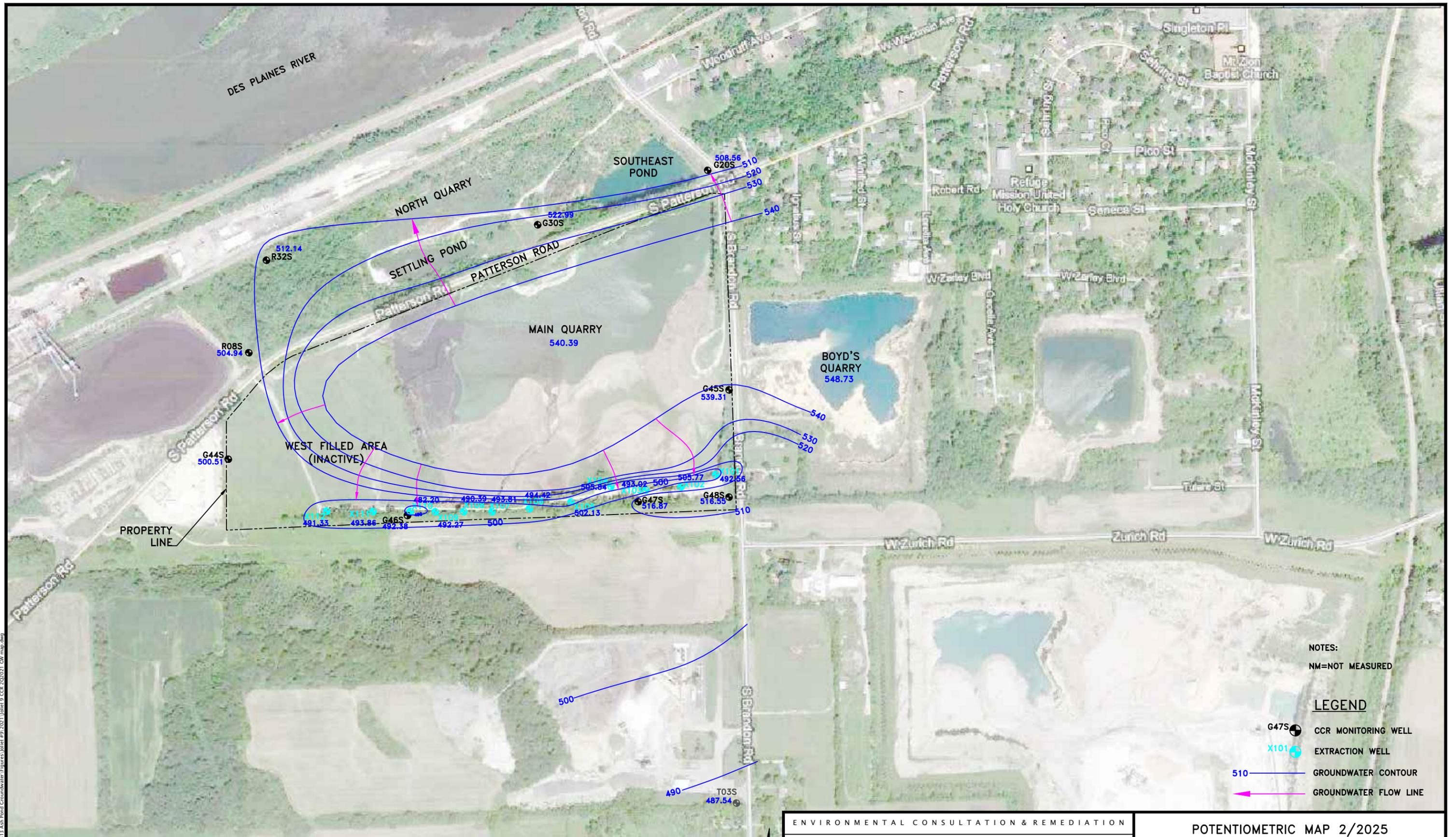
Scale: 1" = 450'

Date: January 7, 2026

KPRG Project No. 21406.19

ATTACHMENT 1

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NOTES:  
NM=NOT MEASURED

**LEGEND**

- G47S ● CCR MONITORING WELL
- X101 ● EXTRACTION WELL
- 510 — GROUNDWATER CONTOUR
- ← GROUNDWATER FLOW LINE



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POTENTIOMETRIC MAP 2/2025

LINCOLN STONE QUARRY  
JOLIET, ILLINOIS

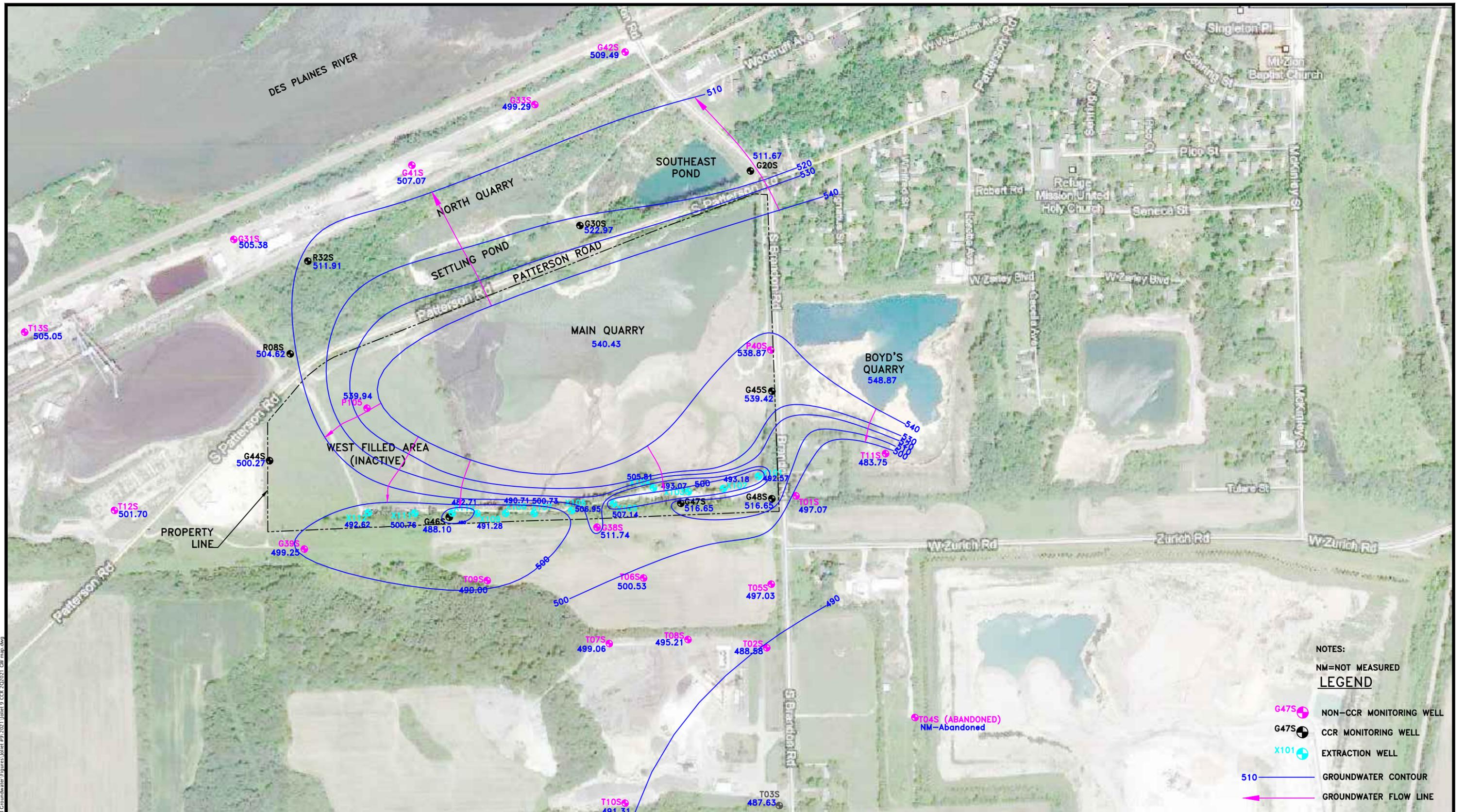
Scale: 1" = 450'

Date: January 7, 2026

KPRG Project No. 21406.19

ATTACHMENT 1

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NOTES:

NM=NOT MEASURED

**LEGEND**

- G47S NON-CCR MONITORING WELL
- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE

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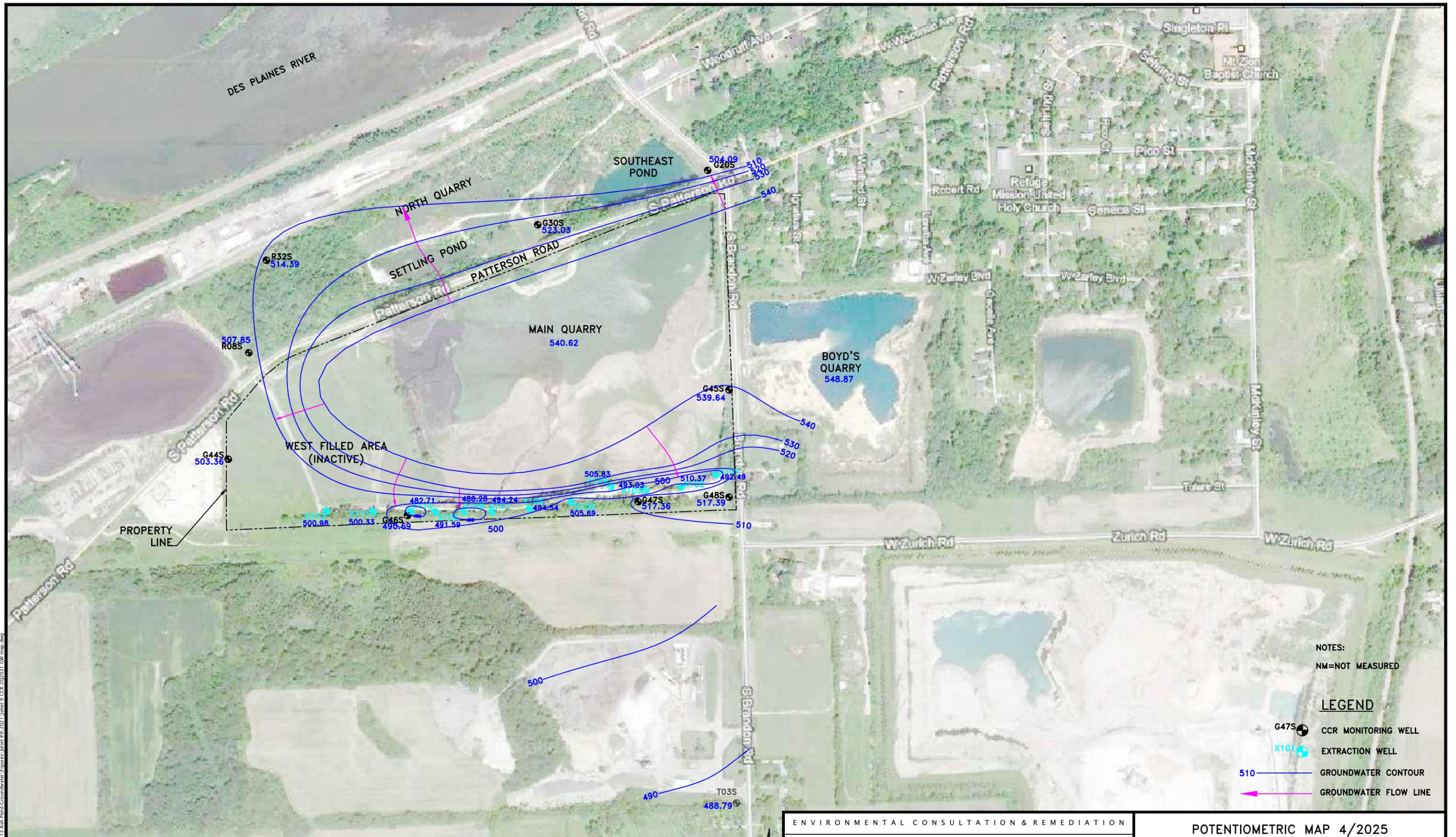
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<b>POTENTIOMETRIC MAP 3/2025</b>	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 7, 2026
KPRG Project No. 21406.19	ATTACHMENT 1



NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



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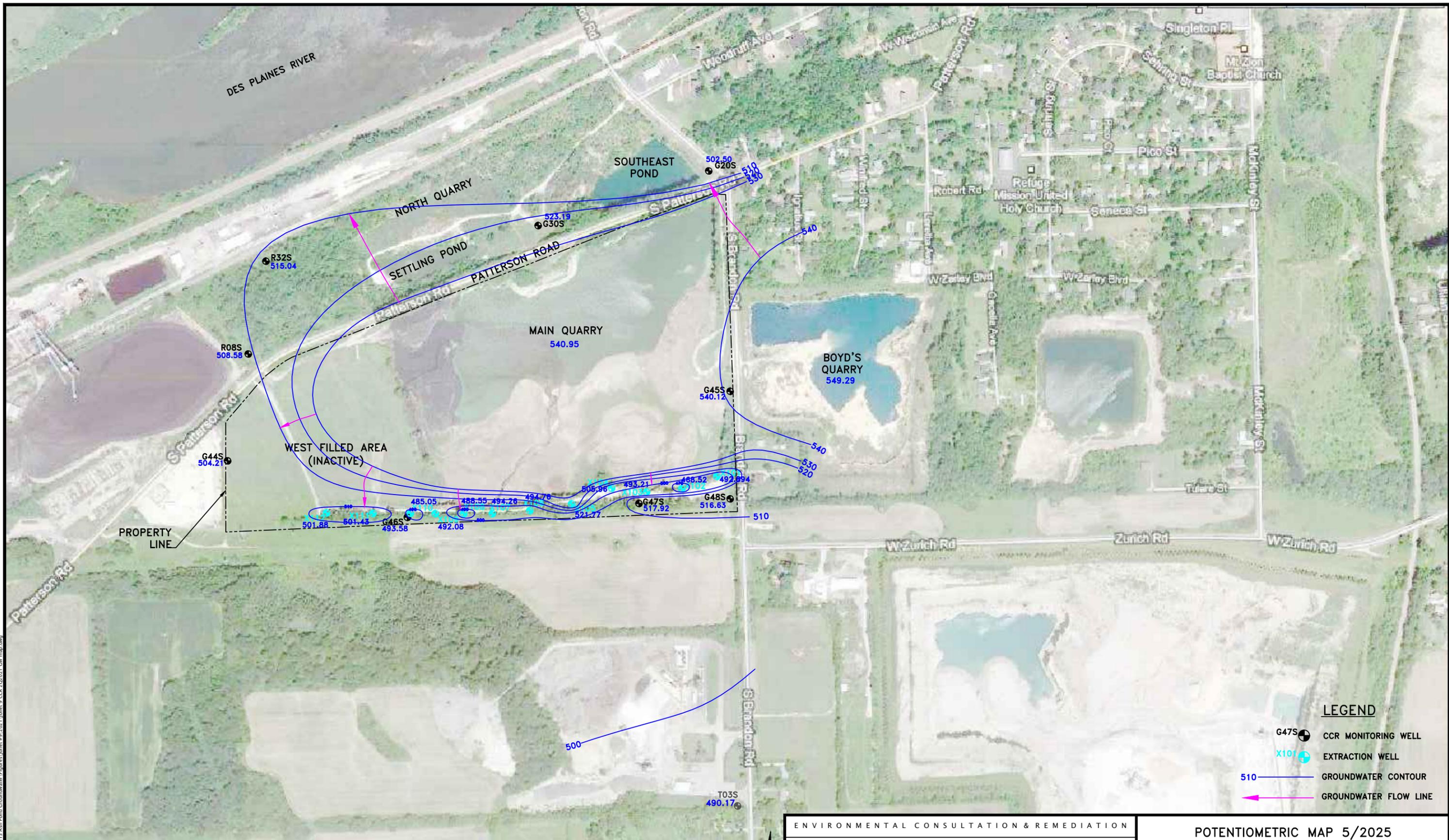
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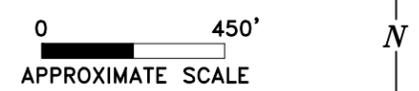
POTENTIOMETRIC MAP 4/2025	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 7, 2026
KPRG Project No. 21406.19	ATTACHMENT 1

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**LEGEND**

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



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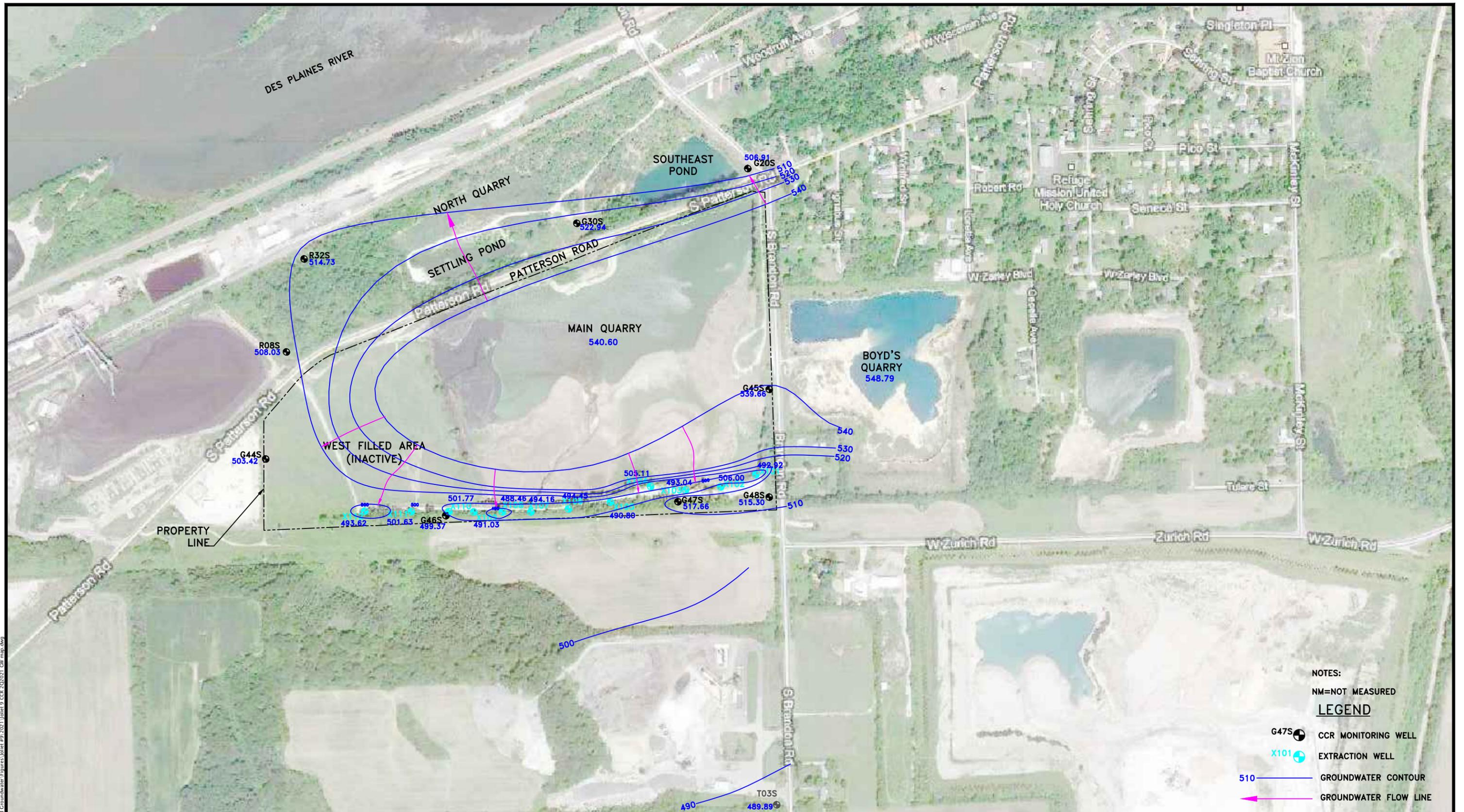
**POTENTIOMETRIC MAP 5/2025**

LINCOLN STONE QUARRY  
JOLIET, ILLINOIS

Scale: 1" = 450'	Date: January 12, 2026
KPRG Project No. 21406.19	ATTACHMENT 1

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- NOTES:  
 NM=NOT MEASURED
- LEGEND**
- G47S ● CCR MONITORING WELL
  - X101 ● EXTRACTION WELL
  - 510 — GROUNDWATER CONTOUR
  - ← GROUNDWATER FLOW LINE



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 414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

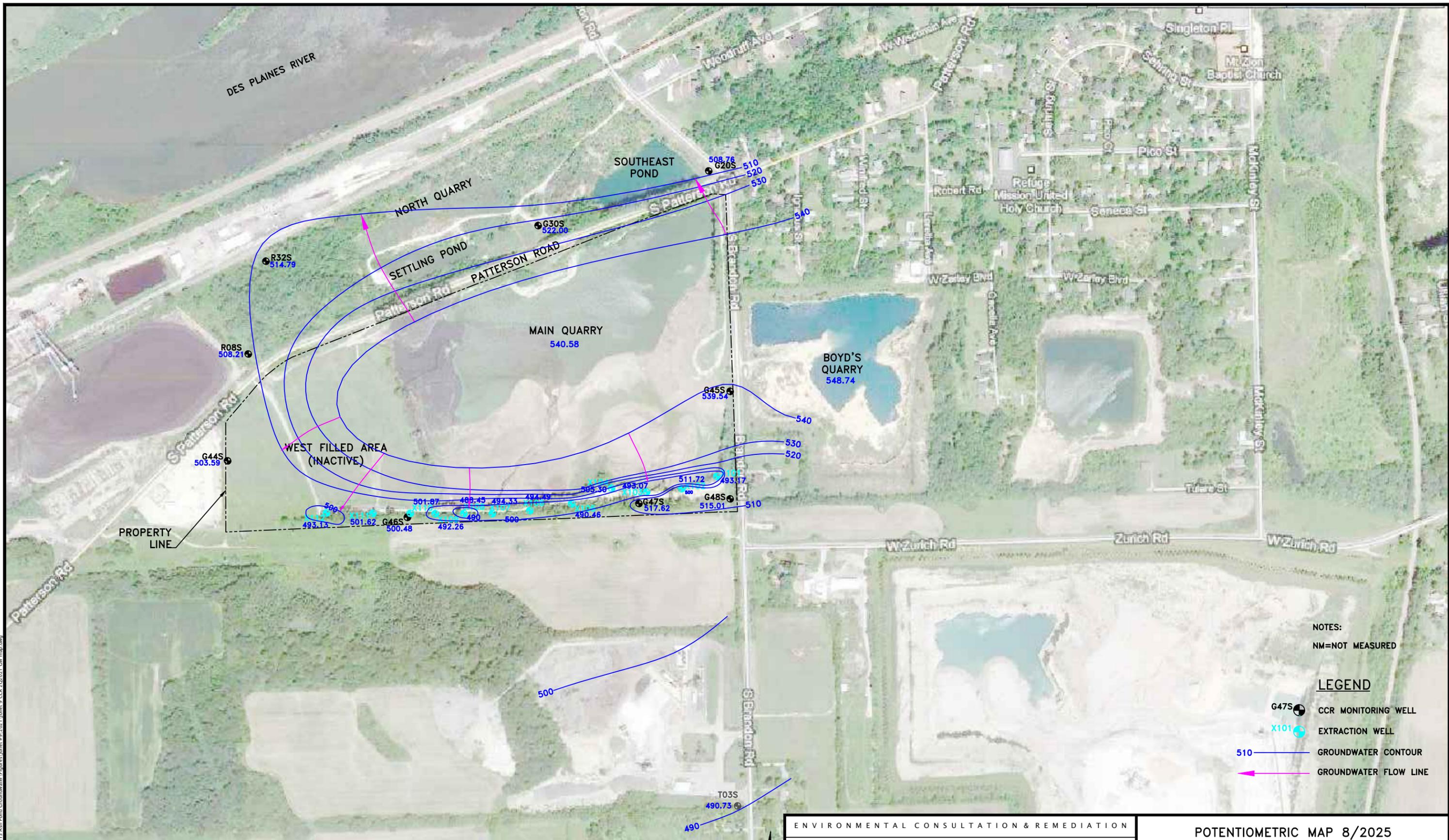
POTENTIOMETRIC MAP 7/2025

LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 12, 2026

KPRG Project No. 21406.19 | ATTACHMENT 1

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NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



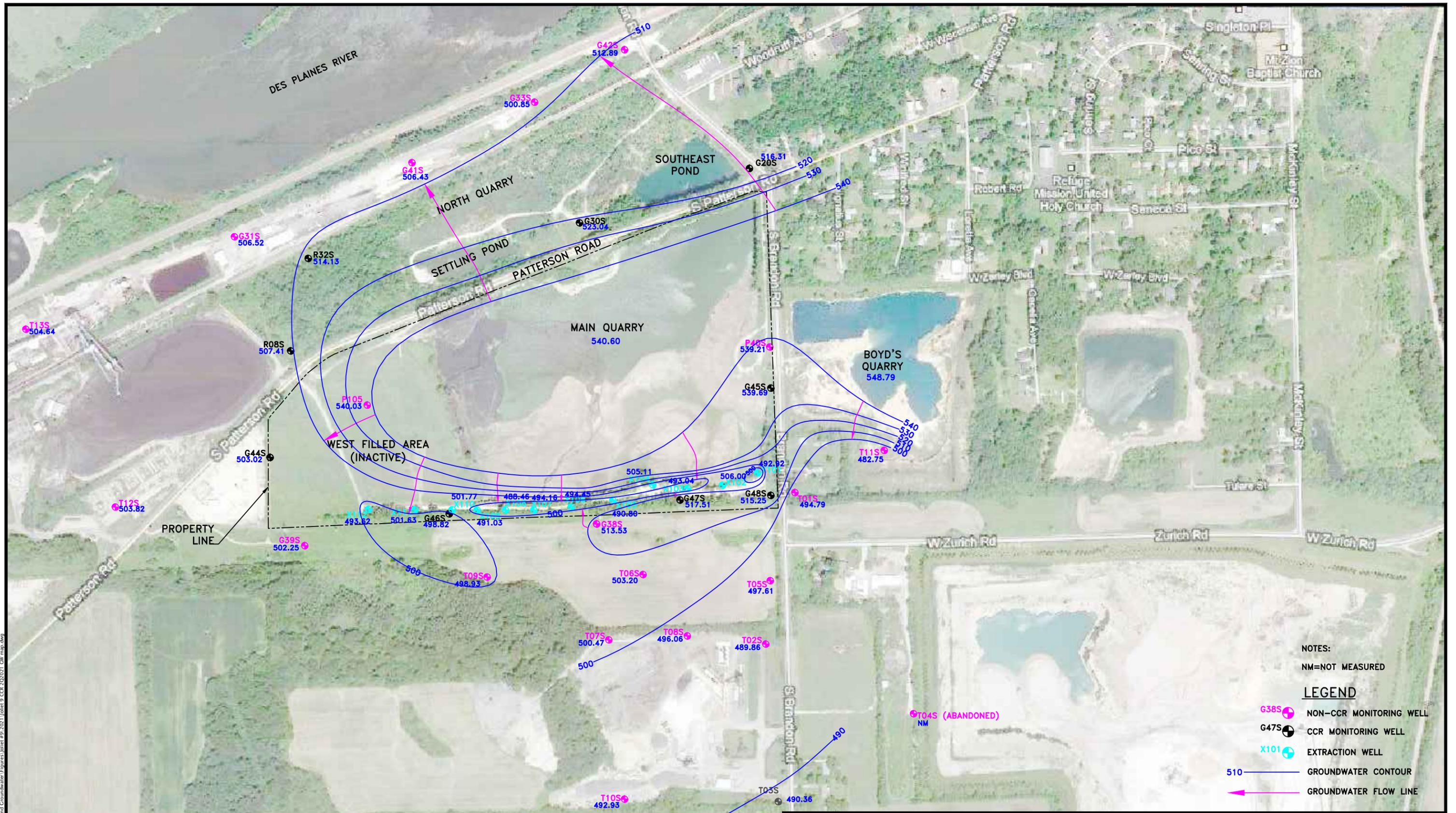
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POTENTIOMETRIC MAP 8/2025	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 8, 2026
KPRG Project No. 21406.19	ATTACHMENT 1

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NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G38S NON-CCR MONITORING WELL
- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



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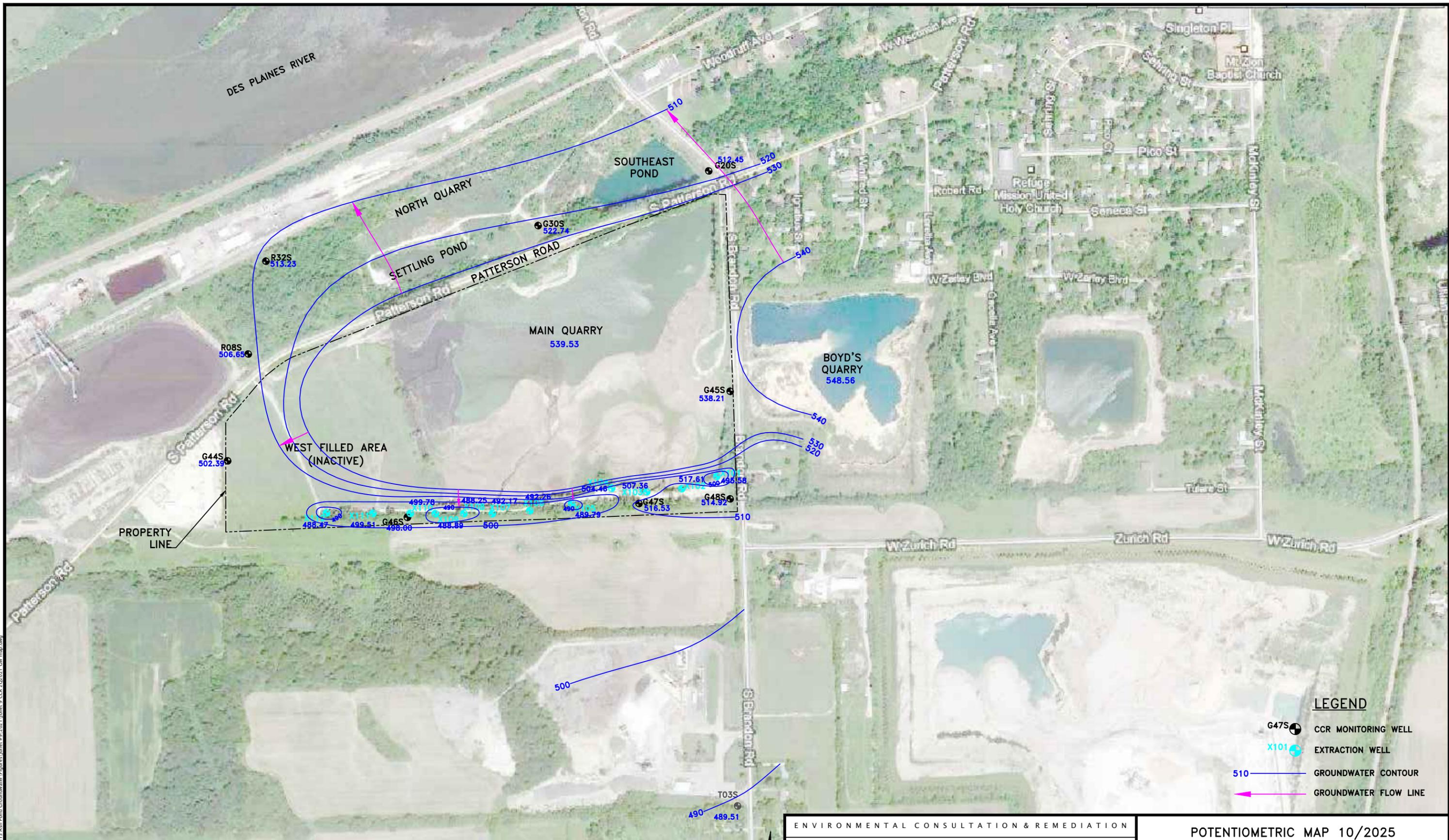
POTENTIOMETRIC MAP 9/2025

LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 8, 2026

KPRG Project No. 21406.19 | ATTACHMENT 1

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- LEGEND**
- G47S ● CCR MONITORING WELL
  - X101 ● EXTRACTION WELL
  - 510 — GROUNDWATER CONTOUR
  - ← GROUNDWATER FLOW LINE



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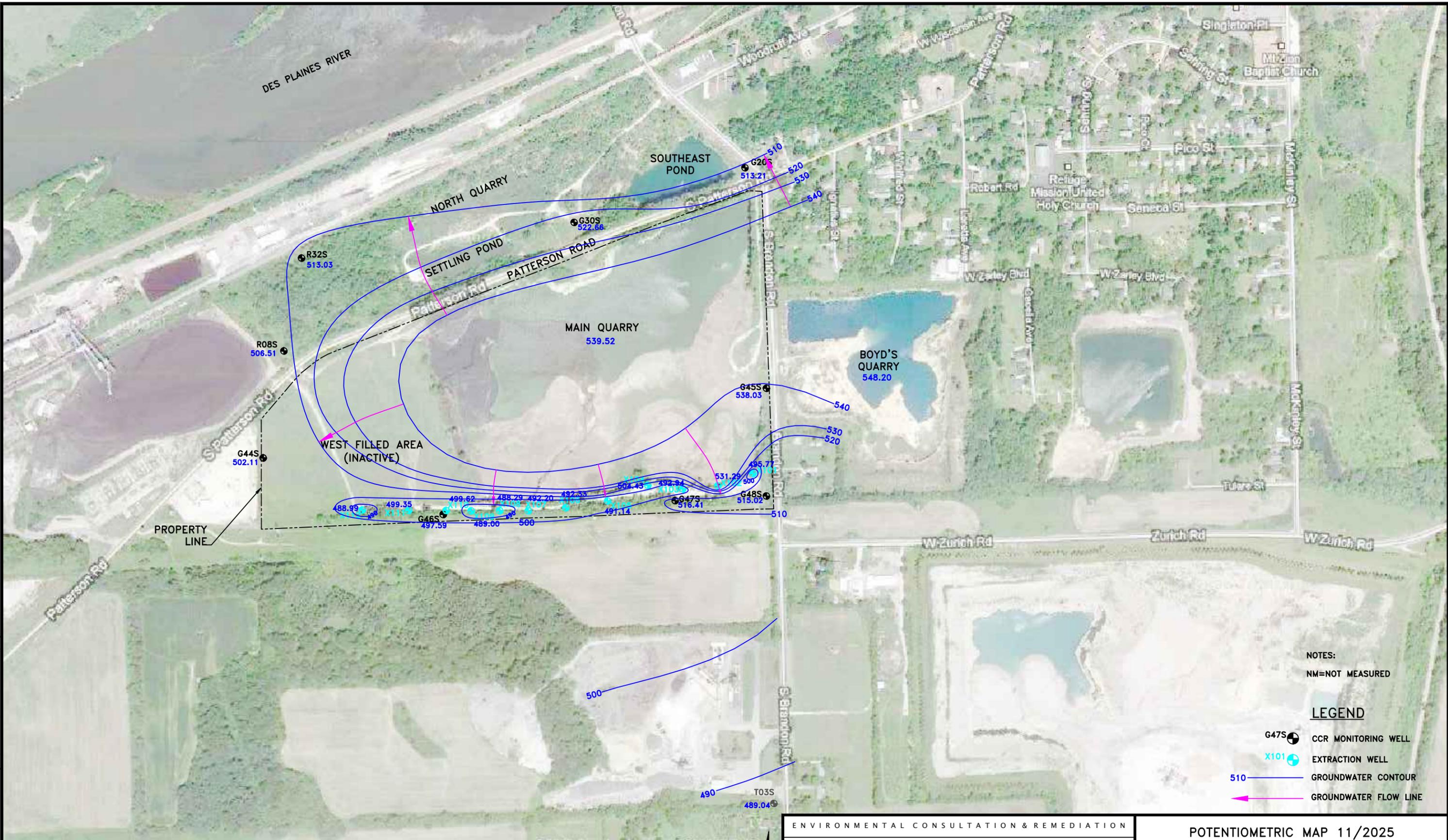
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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

POTENTIOMETRIC MAP 10/2025	
LINCOLN STONE QUARRY JOLIET, ILLINOIS	
Scale: 1" = 450'	Date: January 8, 2026
KPRG Project No. 21406.19	ATTACHMENT 1

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NOTES:  
 NM=NOT MEASURED

**LEGEND**

- G47S CCR MONITORING WELL
- X101 EXTRACTION WELL
- 510 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE



ENVIRONMENTAL CONSULTATION & REMEDIATION

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POTENTIOMETRIC MAP 11/2025

LINCOLN STONE QUARRY  
 JOLIET, ILLINOIS

Scale: 1" = 450' | Date: January 12, 2026

KPRG Project No. 21406.19 | ATTACHMENT 1

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ATTACHMENT D  
MONTHLY SURFACE IMPOUNDMENT  
WATER ELEVATIONS

Monthly Surface Impoundment Water Elevations  
Midwest Generation, LLC - Lincoln Stone Quarry/Joliet #9 Station, Joliet, IL

Well ID	Date	Water Surface Elevation (ft above MSL)
Lincoln Stone Quarry	January	540.34
	February	540.39
	March	540.48
	April	540.83
	May	540.86
	June	540.74
	July	540.55
	August	540.61
	September	540.09
	October	539.54
	November	539.52
	December	539.52

Note:

Water surface elevation based on a monthly average of the daily values