

# 2025 Annual Groundwater Monitoring and Corrective Action Report

Edgewater Generating Station  
I-43 Ash Disposal Facility  
Town of Wilson  
Sheboygan County, Wisconsin

Prepared for:

Alliant Energy



**SCS ENGINEERS**

25225069.00 | January 30, 2026

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## OVERVIEW OF CURRENT STATUS

### Edgewater Generating Station, I-43 Ash Disposal Facility 2025 Annual Report

In accordance with §257.90(e)(6), this section at the beginning of the annual report provides an overview of the current status of groundwater monitoring and corrective action programs for the coal combustion residual (CCR) unit. Supporting information is provided in the text of the annual report.

Category	Rule Requirement	Site Status
<b>Monitoring Status – Start of Year</b>	(i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Detection
<b>Monitoring Status – End of Year</b>	(ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Detection
<b>Statistically Significant Increases (SSIs)</b>	(iii) If it was determined that there was an SSI over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e):	
	(A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and	<u>October 2024</u> None
	(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	<u>April 2025</u> Field pH: MW-306  Alternative Source Demonstration prepared for the April 2025 during 2025. Assessment monitoring not required.

Category	Rule Requirement	Site Status
<b>Statistically Significant Levels (SSL) Above Groundwater Protection Standard (GPS)</b>	(iv) If it was determined that there was an SSL above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g) include all of the following:	Not applicable – Appendix IV sampling not required
	(A) Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;	
	(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	
	(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	
<b>Selection of Remedy</b>	(v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and	Not applicable – Site is in detection monitoring
<b>Corrective Action</b>	(vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.	Not applicable – Site is in detection monitoring

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## 1.0 INTRODUCTION

This 2025 Annual Groundwater Monitoring and Corrective Action Report was prepared to support compliance with the groundwater monitoring requirements of the Coal Combustion Residuals (CCR) Rule [40 Code of Federal Regulations (CFR) 257.50-107]. Specifically, this report was prepared to fulfill the requirements of 40 CFR 257.90(e). The applicable sections of the Rule are provided below in italics, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the CCR Unit.

This report covers the period of groundwater monitoring from January 1, 2025, through December 31, 2025.

The groundwater monitoring system at the Edgewater (EDG) I-43 Ash Disposal Facility (ADF) monitors a single existing CCR unit:

- EDG I-43 Phase 3, Module 1 and 2; and Phase 4, Module 1 (existing CCR Landfill)

The monitoring system is designed to detect monitored constituents at the waste boundary of the I-43 ADF as required by 40 CFR 257.91(d). The groundwater monitoring system consists of two background wells and four downgradient monitoring wells (**Table 1** and **Figure 2**).

In 2025, an expansion of the CCR unit known as the EDG I-43 Contact Water Swale Module was under construction for future waste placement. The groundwater monitoring network will be updated in 2026 to accommodate the new disposal area.

## 2.0 BACKGROUND

To provide context for the annual report, the following background information is provided in this section of the report, prior to the annual report requirement sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system

### GEOLOGIC AND HYDROGEOLOGIC SETTING

#### 2.1 Regional Information

##### 2.1.1

For the purposes of groundwater monitoring, the Niagara Dolomite Aquifer is considered to be the uppermost aquifer unit, as defined under 40 CFR 257.53, at the I-43 ADF. The dolomite aquifer is underlain by the Maquoketa shale, which is a confining unit. The Maquoketa shale is underlain by the Cambrian-Ordovician sandstone aquifer. This sequence of sedimentary bedrock units is over 1,500 feet thick in the area of the I-43 ADF. The sedimentary sequence is underlain by Precambrian crystalline rocks that are not considered an aquifer in eastern Wisconsin. A summary of the regional hydrogeologic stratigraphy is presented in **Appendix A**.

An unconsolidated sand and gravel aquifer is present in some parts of Sheboygan County (Skinner and Borman, 1973) but does not appear laterally extensive.

Regional groundwater flow in the dolomite aquifer, in the vicinity of the site, is to the east or northeast. A map showing the regional water table elevations is included with the regional hydrogeologic information in **Appendix A**.

An evaluation was conducted in 2023 to assess the monitoring system coverage based on the apparent flow direction indicated by the potentiometric surface maps. The original downgradient compliance monitoring well locations were selected based on a regional flow direction to the east or northeast; however, the potentiometric surface maps indicate a potential flow path to the north. The mapped flow to the north is largely driven by the water level measured at MW-305. Two additional wells (MW-307 and MW-308) were installed in December 2025 to support additional evaluation of groundwater flow and monitoring system coverage at the site. These wells may be added to the groundwater monitoring network based on the results of groundwater flow direction evaluation incorporating data from these new wells. Well installation documentation for MW-307 and MW-308 will be finalized in 2026 and included in the 2026 annual report.

## 2.1.2 Site Information

Soils at the site are primarily clay with discontinuous layers of sand and silty sand to a depth of at least 100 feet. During drilling of the CCR wells, the unconsolidated materials were identified as consisting primarily of clay. Zones of sand and gravel are known to be present within the clay, but these appear to be discontinuous, and no nearby private wells screened within the unconsolidated material have been identified. Soils encountered in borings MW-301, MW-302, MW-303, and MW-304 were primarily lean clay, silty clay, and silty sand. The upper 70 feet of soils in boring MW-305 were similar, but in approximately the lower 40 feet above bedrock, sand was the primary soil type. The depth to bedrock in the five wells ranged from approximately 109 feet to 133 feet below ground surface (bgs), and the elevation of the top of bedrock ranged from approximately 568 feet above mean sea level (amsl) to 605 feet amsl. Additional well MW-306 was installed in soils similar to those observed in MW-301, MW-302, MW-303, and MW-304. The depth to bedrock at MW-306 was approximately 126 feet bgs. The boring logs, well construction, and well development forms for the I-43 ADF CCR monitoring wells are provided in **Appendix B**. All CCR monitoring wells are screened within the dolomite bedrock unit.

Shallow groundwater in the clay unit at the site generally flows east to west towards Weedens Creek, a tributary of the Sheboygan River, based on water levels measured under the state monitoring program. The flow direction to the west at the water table is consistent with previous water table maps prepared since the site was developed in the mid-1980s.

In the dolomite aquifer, groundwater generally flows to the north/northeast as shown in previous bedrock potentiometric groundwater maps; however, in the April 2025 groundwater map, MW-306 is a localized groundwater high and shows that the bedrock aquifer is flowing to the east/southeast, rather than the consistently observed north/northeast. Flow on the southern portion of the site flows north/northwest (**Figure 3**). The October 2025 groundwater map shows the typically observed groundwater flow direction to the north/northeast (**Figure 4**). The groundwater elevation data for the CCR monitoring wells are provided in **Table 3**. Calculated horizontal gradients and flow velocities for representative flow paths are provided in **Table 4**.

## 2.2 CCR RULE MONITORING SYSTEM

The groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and four downgradient monitoring wells (**Table 1** and **Figure 2**). The background wells include MW-304 and MW-305. The downgradient compliance wells

include MW-301, MW-302, MW-303, and MW-306. Downgradient well MW-306 was installed in 2024 and was initially used for water level measurements only. MW-306 was subsequently added to the CCR groundwater monitoring system, and the network was recertified with this addition on April 14, 2025. The CCR Rule wells are installed in the upper portion of the dolomite aquifer. Well depths range from approximately 119 to 145 feet, measured from the top of the well casing.

### **3.0 §257.90(e) ANNUAL REPORT REQUIREMENTS**

*Annual groundwater monitoring and corrective action report.* For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by §257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

#### **3.1 §257.90(e)(1) SITE MAP**

*A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;*

A map of the site location is provided on **Figure 1**. A map with an aerial image showing the I-43 ADF CCR unit, and all background (or upgradient) and downgradient monitoring wells with identification numbers for the groundwater monitoring program, is provided as **Figure 2**.

#### **3.2 §257.90(E)(2) MONITORING SYSTEM CHANGES**

*Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;*

An additional monitoring well MW-306 was installed north of Phase 3 of the landfill in 2024. This well was initially used for water level measurements only and was not sampled as part of the CCR program in 2024. MW-306 was added to the CCR groundwater monitoring system as a compliance monitoring well in a certification dated April 14, 2025.

Monitoring wells MW-307 and MW-308 were installed in December 2025. As of the end of this reporting period, these wells have not been added to the monitoring network at I-43. Evaluation of groundwater flow at the site, incorporating data from these new wells, is ongoing. Well installation documentation for MW-307 and MW-308 will be finalized in 2026 and included in the 2026 annual report.

### 3.3 §257.90(E)(3) SUMMARY OF SAMPLING EVENTS

*In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;*

Two semiannual groundwater sampling events were completed in April and October 2025 at the I-43 ADF. The samples were collected under the detection monitoring program, which was established on October 17, 2017. The April 2025 event also included the first round of background sampling for Appendix IV parameters at newly added monitoring well MW-306. A retest sampling was conducted in June 2025 for fluoride at MW-302 due to the exceedance of the upper prediction limit (UPL). The second and third rounds of background monitoring for MW-306 were completed in July and October 2025. A summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs is included in **Table 2**.

Groundwater samples collected during the semiannual events, in April and October 2025, were analyzed for the Appendix III constituents. Appendix IV parameters were also collected at MW-306 for the first three rounds of background sampling.

The validation and evaluation of the October 2024 monitoring event was originally completed and transmitted to WPL on January 22, 2025. The validation and evaluation of the April/June/July 2025 monitoring event data was completed and transmitted to WPL on September 23, 2025. The validation and evaluation of the October 2025 monitoring event data was in progress at the end of 2025 and will be transmitted to WPL in 2026; therefore, the October 2025 monitoring results will be included in the 2026 annual report.

The sampling results for October 2024 and April/June/July 2025 are summarized in **Table 5**. Field parameter results for the October 2024 and April/June/July 2025 sampling events are provided in **Table 6**. The analytical laboratory reports for October 2024 and April/June/July 2025 are provided in **Appendix C**. Historical results for each monitoring well through July 2025 are summarized in **Appendix D**.

### 3.4 §257.90(E)(4) MONITORING TRANSITION NARRATIVE

*A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels);*

There were no transitions between monitoring programs in 2025. The I-43 ADF remained in the detection monitoring program.

In 2025, the monitoring results for the October 2024 and April/June/July 2025 monitoring events were evaluated for SSIs in detection monitoring parameters relative to background. For all parameters except boron, the comparison to background was based on a prediction limit approach, comparing the results to interwell UPLs based on background monitoring results from the upgradient wells (MW-304 and MW-305). To allow for natural spatial variability in the background concentrations, the statistical evaluation for boron was transitioned to an intrawell approach beginning with the October 2018 monitoring event. The comparison to background used intrawell

UPLs based on background monitoring results from the compliance wells (MW-301, MW-302, and MW-303). Collection of background data was completed for MW-306 in October 2024, April 2025, and July 2025. An intrawell UPL for boron at MW-306 will be calculated when at least four background results are available.

The interwell and intrawell UPLs were most recently updated in May 2024, using background data collected through November 2023 for interwell and intrawell UPLs. The May 2024 Statistical Analysis was included in the 2024 Annual CCR Report. The Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act (RCRA) Facilities (U.S. Environmental Protection Agency, 2009; Section 5.3.1) recommends periodic updating of background for both intrawell and interwell analyses. For semiannual monitoring, an update interval of 2 to 3 years is recommended.

No SSIs were identified for the October 2024 event. Fluoride exceeded the UPL at MW-302 during the April 2025 event, but the June 2025 retest result was below the UPL, so there was no SSI for this parameter at MW-302. The only SSI identified for the April 2025 event and retest events was for field pH at MW-306. An ASD was completed for pH at MW-306 for the April 2025 event, and the evaluation indicates that the SSI for pH is likely due to the well not reaching equilibrium with the aquifer at the time of sampling. The ASD report for the April 2025 sampling event is provided in **Appendix E**.

### **3.5 §257.90(E)(5) OTHER REQUIREMENTS**

*Other information required to be included in the annual report as specified in §§257.90 through 257.98.*

Additional potentially applicable requirements for the annual report, and the location of the requirement within the Rule, are provided in the following sections. For each cited section of the Rule, the portion referencing the annual report requirement is provided below in italics, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the I-43 ADF CCR unit.

#### **3.5.1 §257.90(e) General Requirements**

*For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year.*

**Status of Groundwater Monitoring and Corrective Action Program.** The groundwater monitoring and corrective action program is currently in detection monitoring.

#### **Summary of Key Actions Completed.**

- Statistical evaluation and determination of SSIs for the October 2024 and April 2025 monitoring events.
- ASD report for the SSI identified from the April 2025 event and June and July 2025 resampling events.
- Two semiannual groundwater sampling and analysis events (April and October 2025).

- Certification of groundwater monitoring well network to include MW-306 as a compliance well (April 2025).
- Installation of additional monitoring wells into the bedrock, MW-307 and MW-308 (December 2025).

**Description of Any Problems Encountered.** No problems were encountered in 2025.

**Discussion of Actions to Resolve the Problems.** Not applicable.

**Projection of Key Activities for the Upcoming Year (2026).**

- Complete statistical evaluation and determination of any SSIs for the October 2025 and April 2026 monitoring events.
- If an SSI is determined, then within 90 days either:
  - Complete alternative source demonstration (if applicable), or
  - Establish an assessment monitoring program.
- Conduct two semiannual groundwater sampling and analysis events (April and October 2026).
- Complete work to put MW-307 and MW-308 in service including well development, hydraulic conductivity testing and documentation.
- Collect groundwater elevation data at MW-307 and MW-308 to evaluate addition as compliance wells into the groundwater monitoring system.
- Continue background sampling events for MW-306.
- Initiate of background monitoring of MW-307 and MW-308, if added as compliance wells.

### **3.5.2 §257.94(d) Alternative Detection Monitoring Frequency**

*The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by §257.90(e).*

Not applicable. No alternative detection monitoring frequency has been proposed.

### **3.5.3 §257.94(e)(2) Alternative Source Demonstration for Detection Monitoring**

*The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.*

The Alternative Source Demonstration (ASD) report prepared to address the SSI observed for the April 2025 sampling event is provided in **Appendix E**. The ASD report is certified by a qualified professional engineer.

### **3.5.4 §257.95(c) Alternative Assessment Monitoring Frequency**

*The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by §257.90(e).*

Not applicable. Assessment monitoring has not been initiated.

### **3.5.5 §257.95(d)(3) Assessment Monitoring Results and Standards**

*Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under §257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by §257.90(e).*

Not applicable. Assessment monitoring has not been initiated.

### **3.5.6 §257.95(g)(3)(ii) Alternative Source Demonstration for Assessment Monitoring**

*The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.*

Not applicable. Assessment monitoring has not been initiated.

### **3.5.7 §257.96(a) Extension of Time for Corrective Measures Assessment**

*The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measure due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by §257.90(e), in addition to the certification by a qualified professional engineer.*

Not applicable. Corrective measures assessment has not been initiated.

## **3.6 §257.90(E)(6) OVERVIEW**

*A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit.*

The specific requirements for the overview under §257.90(e)(6) are listed and the information is provided at the beginning of this report, before the Table of Contents.

## **4.0 REFERENCE**

Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

## Tables

- 1 Groundwater Monitoring Well Network
- 2 CCR Rule Groundwater Samples Summary
- 3 Water Level Summary
- 4 Horizontal Gradients and Flow Velocity
- 5 Groundwater Analytical Results Summary - October 2024 through July 2025
- 6 Groundwater Field Data Summary – October 2024 through July 2025

**Table 1. Groundwater Monitoring Well Network  
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00**

<b>Monitoring Well</b>	<b>Location in Monitoring Network</b>	<b>Role in Monitoring Network</b>
MW-301	Downgradient	Compliance
MW-302	Downgradient	Compliance
MW-303	Downgradient	Compliance
MW-304	Upgradient	Background
MW-305	Upgradient	Background
MW-306	Downgradient	Compliance

Last revision by: LH  
 Checked by: RM

Date: 11/12/2025  
 Date: 11/24/2025

**Table 2. CCR Rule Groundwater Samples Summary  
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00**

Sample Dates	Compliance Wells				Background Wells	
	MW-301	MW-302	MW-303	MW-306	MW-304	MW-305
April 21-23, 2025	D	D	D	B-D	D	D
June 10, 2025	--	D-R	--	--	--	--
July 21, 2025	--	--	--	B-D	--	--
October 6-7, 2025	D	D	D	B-D	D	D
Total Samples	2	3	2	3	2	2

Abbreviations:

D = Required by Detection Monitoring Program

D-R = Detection Monitoring Retest Sample

B-D = Background Sampling and Detection Monitoring

-- = Not Sampled

Last revision by: LH Date: 11/12/2025  
 Checked by: RM Date: 12/1/2025

**Table 3. Water Level Summary**  
**WPL - I43 / SCS Engineers Project #25225069.00**

Well Number	Ground Water Elevation in feet above mean sea level (amsl)					
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306
<b>Measurement Date</b>						
April 26, 2016	653.54	653.56	653.59	655.90	--	NI
June 20, 2016	652.01	651.89	651.80	653.79	--	NI
August 9, 2016	649.68	649.30	649.37	651.55	--	NI
October 19, 2016	652.32	652.38	652.18	654.00	--	NI
December 19, 2016	652.85	652.79	652.82	654.26	--	NI
January 5, 2017	652.86	652.82	652.80	654.15	--	NI
January 23, 2017	652.98	664.97*	652.92	654.37	--	NI
February 23, 2017	653.14	653.10	653.10	654.49	658.02	NI
April 7, 2017	654.43	654.72	654.55	654.85	659.65	NI
June 6, 2017	654.11	654.12	654.14	655.70	659.70	NI
August 1, 2017	652.64	652.55	652.50	654.49	658.54	NI
October 23, 2017	652.03	652.05	652.03	653.65	657.22	NI
April 3, 2018	651.28	651.25	651.30	652.86	656.24	NI
October 4, 2018	650.71	650.70	650.70	652.26	655.89	NI
April 8-9, 2019	653.06	654.06	654.06	655.59	659.03	NI
October 8, 2019	653.26	653.21	653.27	654.77	658.77	NI
November 26, 2019	--	--	655.56	--	--	NI
April 7, 2020	656.59	656.47	656.46	658.16	661.58	NI
May 20, 2020	--	655.81	--	--	--	NI
October 13, 2020	652.16	652.17	652.20	654.17	658.08	NI
December 18, 2020	653.91	653.88	--	--	--	NI
April 13, 2021	654.56	654.57	654.53	656.36	659.69	NI
June 16, 2021	649.78	649.75	--	--	--	NI
October 26, 2021	650.76	650.88	650.90	652.54	655.86	NI
April 11-13, 2022	651.65	651.62	651.58	653.08	657.58	NI
June 16, 2022	--	650.55	--	--	--	NI
October 4, 2022	648.87	648.85	648.89	650.51	654.40	NI
February 14, 2023	651.61	651.60	651.61	653.17	656.25	NI
March 22, 2023	652.44	652.43	652.42	654.04	657.48	NI
April 24-25, 2023	653.26	653.25	653.31	654.83	658.22	NI
May 25, 2023	651.28	651.24	651.30	653.17	657.54	NI
June 26, 2023	648.06	648.05	648.07	649.86	655.07	NI
July 26, 2023	647.08	647.02	647.17	649.15	652.09	NI
October 11, 2023	648.65	648.67	648.65	650.24	654.22	NI
November 14, 2023	649.98	649.97	649.95	651.37	654.89	NI
November 14, 2023 elevations based on re-surveyed TOC	650.21	650.21	650.17	651.52	655.19	NI
April 15, 2024	652.95	652.93	652.96	654.82	658.53	NI
July 19, 2024	653.41	653.41	653.39	655.04	659.29	--
August 8, 2024	650.96	650.98	650.96	653.07	657.85	651.58
October 2, 2024	650.21	650.48	650.15	652.01	656.60	650.47
January 16, 2025	652.30	652.34	652.32	653.92	657.50	652.27
April 21, 2025	653.23	653.24	653.49	655.04	658.61	656.73
April 23, 2025	652.89	--	--	--	--	--
June 10, 2025	--	653.36	--	--	--	--
July 21, 2025	--	--	--	--	--	655.05
October 6-7, 2025	649.10	649.08	649.06	650.94	655.50	649.81

Notes: -- = not measured

\*: The calculated groundwater elevation at MW-302 on January 23, 2017 appears to reflect an error in recording the pre-purge

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 Last rev. by: RM  
 Checked by: NLB

Date: 1/10/2020  
 Date: 11/13/2025  
 Date: 11/14/2025

I:\25225069.00\Deliverables\2025 - Annual CCR Report\Tables\[Table 3 - CCR GW Elevation Summary\_2025.xls]levels

**Table 4. Horizontal Gradients and Flow Velocity**  
**Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00**  
**January - December 2025**

Flow Path A - North					
Sampling Dates	h1 (ft)	h2 (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d)
April 21 & 23, 2025	654.00	653.24	750	0.001	0.01
October 6-7, 2025	650.00	649.00	564	0.002	0.02

Wells	K Value (ft/d)	K Value (ft/d)
MW-301	1.7E-03	4.9
MW-302	4.8E-03	14
MW-303	6.8E-03	19
MW-306	6.1E-06	0.017
Geometric Mean	3.8E-03	2

Assumed Porosity, n
0.25

Groundwater flow velocity equation:  $V = [K*(\Delta h/\Delta l)] / n$

ft = feet

ft/d = feet per day

K = hydraulic conductivity

n = effective porosity

V = groundwater flow velocity

h1, h2 = point interpreted groundwater elevations at locations 1 and 2

Δl = distance between location 1 and 2

Δh/Δl = hydraulic gradient

Note:

1. See Figures 3 and 4 for velocity calculation flow path locations.

Last revision by: NLB  
 Checked by: LH

Date: 12/4/2025  
 Date: 12/4/2025

Table 5. Groundwater Analytical Results Summary - October 2024 through July 2025  
Edgewater I-43 Ash Disposal Facility, Sheboygan, WI / SCS Engineers Project #25225069.00

Parameter Name	Interwell UPL	Background Wells				Compliance Wells												
		MW-304		MW-305		MW-301			MW-302			MW-303			MW-306			
		10/2/2024	4/21/2025	10/2/2024	4/21/2025	Intrawell UPL	10/2/2024	4/23/2025	Intrawell UPL	10/2/2024	4/21/2025	6/10/2025	Intrawell UPL	10/2/2024	4/21/2025	Intrawell UPL	4/21/2025	7/21/2025
Groundwater Elevation, ft amsl		652.01	655.04	656.60	658.61		650.21	653.23		650.48	653.24	653.36		650.15	653.49		656.73	655.05
<b>Appendix III</b>																		
Boron, ug/L		89.4	85.3	61.3	57.4	182	130	117	148	126	120	--	99.9	83.0	78.6	NA <sup>(4)</sup>	534	193
Calcium, ug/L	103,000	21,400	22,800	89,600	81,500		24,300	23,300		28,200	25,500	--		28,700	26,400		709,000	24,600
Chloride, mg/L	24.9	2.7	2.7	31.1	M0		3.3	3.0		4.0	5.3	--		3.8	3.7		14.6	J,D3
Fluoride, mg/L	0.76	0.49	0.45	0.78	0.73		0.65	0.69		0.75	0.79	0.71		0.63	0.66		<1.9	D3
Field pH, Std. Units	8.32	7.85	8.08	7.33	7.61		7.72	8.08		7.75	8.09	7.81		7.72	8.04		8.69	8.37
Sulfate, mg/L	140	17.4	16.7	11.6	M0		10.3	10.5		19.4	32.4	--		24.7	23		124	118
Total Dissolved Solids, mg/L	604	226	218	504	590		200	190		192	280	--		266	254		820	426
<b>Appendix IV</b>	<b>UPL</b>	<b>GPS</b>																
Antimony, ug/L	NE	6	--	--	--		--	--		--	--	--		--	--		3.5	J,D3
Arsenic, ug/L	NE	10	--	--	--		--	--		--	--	--		--	--		40.3	3.3
Barium, ug/L	NE	2000	--	--	--		--	--		--	--	--		--	--		1050	55.8
Beryllium, ug/L	NE	4	--	--	--		--	--		--	--	--		--	--		9	<0.25
Cadmium, ug/L	NE	5	--	--	--		--	--		--	--	--		--	--		2.1	J,D3
Chromium, ug/L	NE	100	--	--	--		--	--		--	--	--		--	--		501	4.9
Cobalt, ug/L	NE	6	--	--	--		--	--		--	--	--		--	--		81	1.1
Fluoride, mg/L	NE	4	--	--	--		--	--		--	--	--		--	--		<1.9	D3
Lead, ug/L	NE	15	--	--	--		--	--		--	--	--		--	--		97.5	1.2
Lithium, ug/L	NE	40	--	--	--		--	--		--	--	--		--	--		309	17.8
Mercury, ug/L	NE	2	--	--	--		--	--		--	--	--		--	--		0.17	J
Molybdenum, ug/L	NE	100	--	--	--		--	--		--	--	--		--	--		114	95.5
Selenium, ug/L	NE	50	--	--	--		--	--		--	--	--		--	--		<3.2	D3
Thallium, ug/L	NE	2	--	--	--		--	--		--	--	--		--	--		1.8	J,D3
Radium 226/228 Combined, pCi/L	NE	5	--	--	--		--	--		--	--	--		--	--		2.53	2.39

30.8 Yellow highlighted cell indicates the compliance well result exceeds the GPS value. This site is not in Assessment Monitoring and a GPS exceedance does not signify the parameter is present at a Statistically Significant Level (SSL) above the GPS. Site-specific GPS values have not been calculated at this site to date.

4.4 Blue shaded cell indicates the compliance well result exceeds the UPL (background) and the Limit of Quantitation (LOQ).

- Abbreviations:  
 UPL = Upper Prediction Limit  
 SSL = Statistically Significant Increase  
 -- = Not Analyzed  
 NE = Not Established  
 ug/L = micrograms per liter  
 mg/L = milligrams per liter  
 LOQ = Limit of Quantitation  
 LOD = Limit of Detection

- Notes:  
 J = Estimated concentration at or above the LOD and below the LOQ.  
 M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
 D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- Notes:  
 1. An individual result above the UPL does not constitute an SSL above background. See the accompanying letter text for identification of statistically significant results.  
 2. Interwell UPLs calculated based on results from background wells MW-304 and MW-305. Interwell UPLs based on 1-of-2 retesting approach. Interwell UPLs were calculated with background results from the May 2016 through the October 2020 sampling event. Interwell UPLs for calcium, fluoride, field pH, and TDS were updated in 2024 to include background results through November 2023.  
 3. Following the completion of the April 2018 Alternative Source Demonstration (ASD) Report, dated October 31, 2018, the statistical method for evaluating boron data at the three compliance monitoring wells was modified to an intrawell approach. Intrawell UPLs were calculated using results from the May 2016 through the April 2020 sampling events. Intrawell UPLs were updated in 2024 to include background results through November 2023.  
 4. Intrawell UPL for boron at MW-306 will be calculated once four sampling rounds are completed.

Created by: NDK Date: 10/27/2022  
 Last revision by: MDB Date: 12/23/2025  
 Checked by: RM Date: 12/29/2025

I:\25225069.00\Deliverables\2025 - Annual CCR Report\Tables\Table 5 - GW Analytical Summary.xlsx|Table

**Table 6. Groundwater Field Data Summary - October 2024 through July 2025  
Edgewater I-43 Ash Disposal Facility / SCS Engineers Project #25225069.00**

Well	Sample Date	Groundwater Elevation (feet)	Field Temperature (deg C)	Field pH (Std. Units)	Oxygen, Dissolved (mg/L)	Field Specific Conductance (umhos/cm)	Field Oxidation Potential (mV)	Turbidity (NTU)
MW-301	10/2/2024	650.21	12.0	7.72	0.78	351	665	22.4
	4/23/2025	653.23 <sup>(1)</sup>	9.8	8.08	0.97	369	95	20.6
MW-302	10/2/2024	650.48	13.1	7.75	1.25	401	631	11.49
	4/21/2025	653.24	9.4	8.09	1.07	444	-24	7.05
	6/10/2025	653.36	11.5	7.81	1.97	543	134	6.25
MW-303	10/2/2024	650.15	12.3	7.72	2.28	453	751	0.27
	4/21/2025	653.49	9.4	8.04	2.26	456	28	1.08
MW-304	10/2/2024	652.01	10.7	7.85	1.22	406	623	20.4
	4/21/2025	655.04	9.3	8.08	0.92	412	-53	5.46
MW-305	10/2/2024	656.60	13.9	7.33	2.74	879	575	3.09
	4/21/2025	658.61	9.2	7.61	0.99	936	-75	3.20
MW-306	4/21/2025	656.73	10.0	8.69	0.19	622	-155	--
	7/21/2025	655.05	13.3	8.37	0.79	626	15	117

Notes:

-- = Not recorded

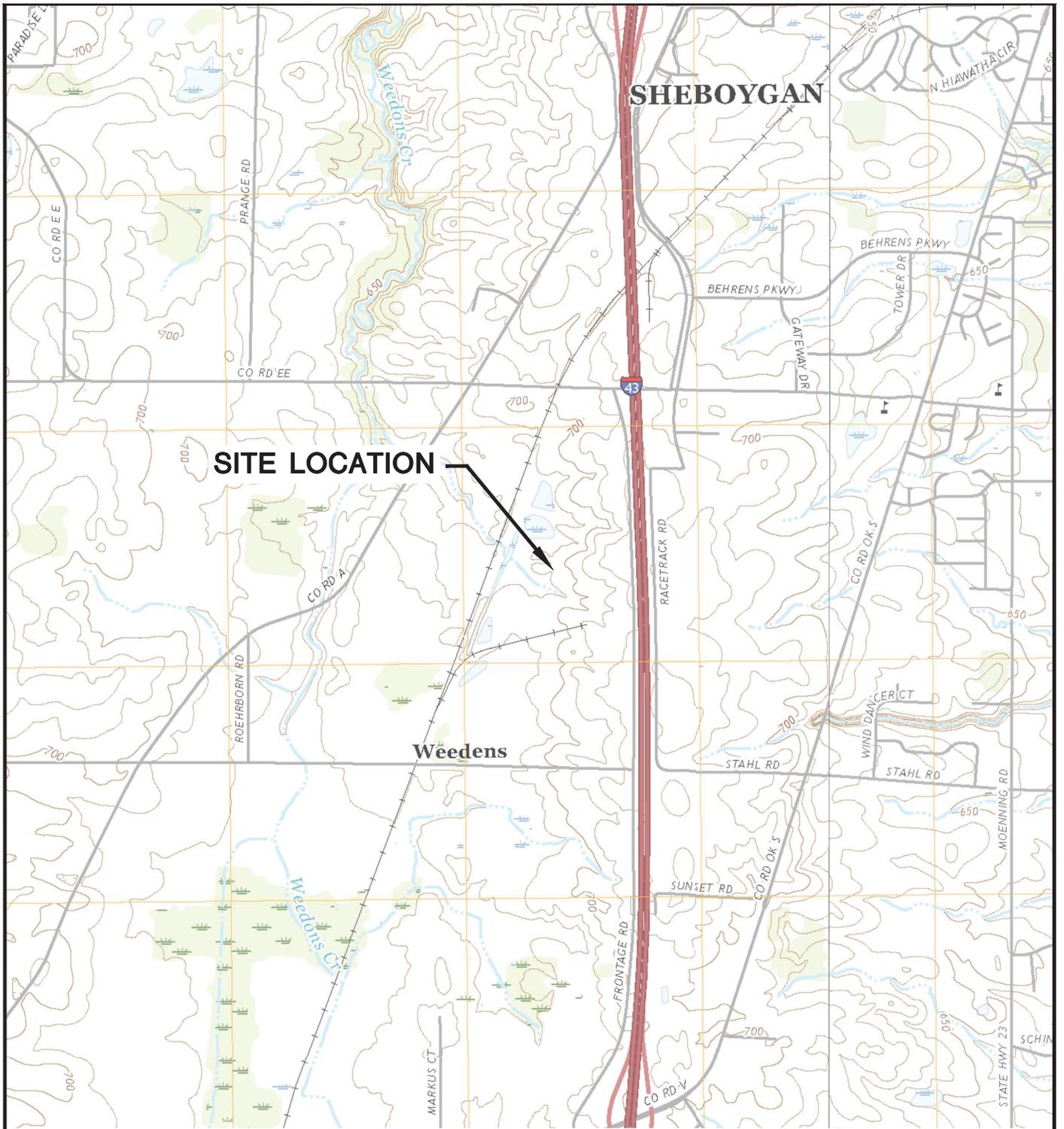
1. Groundwater elevation at MW-301 was measured 4/21/2025.

Last revision by:           LH            
Checked by:               RM          

Date:           11/12/2025            
Date:           12/2/2025

## Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Bedrock Potentiometric Surface Map – April 2025
- 4 Bedrock Potentiometric Surface Map – October 2025



SHEBOYGAN FALLS QUADRANGLE  
 WISCONSIN-SHEBOYGAN CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 2018  
 SCALE: 1" = 2,000'



CLIENT	WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081		SITE	ALLIANT ENERGY 1-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WI		SITE LOCATION MAP
	PROJECT NO.	25219069.00		DRAWN BY:	BSS	
	DRAWN:	11/20/2019	CHECKED BY:	MDB	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830
	REVISED:	01/13/2020	APPROVED BY:	TK 01/30/2020		

I:\25219069.00\Drawings\CCR 2019 Annual Report\Site Location Map.dwg, 1/30/2020 3:46:56 PM



**LEGEND**

- LIMITS OF FINAL COVER
- CCR RULE BACKGROUND MONITORING WELL
- CCR RULE PIEZOMETER (BEDROCK)
- PIEZOMETER (BEDROCK)
- ⊕ LEACHATE HEADWELL
- MONITORING WELL (UNCONSOLIDATED)
- PIEZOMETER (UNCONSOLIDATED)
- PRIVATE WATER SUPPLY WELL
- +++++ RAILROAD TRACK
- CCR RULE UNIT
- MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
- MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)

**NOTES**

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/04/2025.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. RAIL DATA FROM BUREAU OF TRANSPORTATION STATISTICS (BTS); FEDERAL RAILROAD ADMINISTRATION (FRA). ACCESSED ON 04/30/2025.
4. MONITORING WELL INSTALLATION SUMMARY: MONITORING WELLS MW-301, MW-302, MW-303 AND MW-304 WERE INSTALLED BETWEEN NOVEMBER 30, 2015 AND JANUARY 26, 2016 BY BADGER STATE DRILLING INC. UNDER THE SUPERVISION OF SCS ENGINEERS. THESE WELLS WERE SURVEYED BY SCS ENGINEERS IN DECEMBER 2015 AND JANUARY 2015. MONITORING WELL MW-305 WAS INSTALLED FEBRUARY 2, 2017 BY BADGER STATE DRILLING, INC. THIS WELL WAS SURVEYED BY SCS ENGINEERS IN FEBRUARY 2017. MONITORING WELL MW-306 WAS INSTALLED JUNE 3-5, 2024 BY HORIZON CONSTRUCTION AND EXPLORATION, LLC OF FREDONIA, WI. THIS WELL WAS SURVEYED BY CEDAR CREEK SURVEYING LLC OF OOSTBURG, WI ON JULY 16, 2024. MONITORING WELLS MW-307 AND MW-308 WERE INSTALLED ON DECEMBER 10 AND DECEMBER 16, 2025 BY CASCADE DRILLING OF SCHOFIELD, WI. THESE WERE SURVEYED BY CEDAR CREEK SURVEYING LLC OF OOSTBURG, WI ON DECEMBER 30, 2025
5. TOPOGRAPHIC CONTOURS BASED ON AERIAL TOPOGRAPHIC SURVEY FLOWN DECEMBER 1, 2014 USING WISCONSIN STATE PLANE COORDINATES. ELEVATIONS BASED ON USGS NATIONAL GEODETIC VERTICAL DATUM, 1929. UPDATED WITH 2015 CONSTRUCTION AS-BUILT GRADES, 2016 CONSTRUCTION AS-BUILT GRADES FOR PHASE 4, MODULE 1 BY SCS ENGINEERS, DECEMBER 23, 2020 DRONE SURVEY OF PHASE 3, MODULE 2 ASH GRADES AND FUTURE PHASE 4 AREAS BY RYAN INCORPORATED CENTRAL, FEBRUARY AND APRIL 2024 PHASE 3 MODULE 2 SURVEYS BY SCS ENGINEERS, AND SEPTEMBER 19, 2024 DRONE SURVEY BY SCS ENGINEERS.



SCALE: 1" = 600'



DOCUMENT PATH: I:\24224069.00\DRAWINGS\143CW\143CW.APRX

PROJECT NO.	25225069.00	DRAWN BY:	AA
DRAWN:	05/08/2025	CHECKED BY:	NLB 01/08/2026
REVISED:	01/08/2026	APPROVED BY:	TK 01/09/2026

**SCS ENGINEERS**  
 2830 DAIRY DRIVE MADISON, WI 53718-6751  
 PHONE: (608) 224-2830

CLIENT  
 WISCONSIN POWER AND LIGHT CO.  
 3739 LAKESHORE DRIVE  
 SHEBOYGAN, WI 53081

SITE  
 ALLIANT ENERGY  
 1-43 ASH DISPOSAL FACILITY  
 TOWN OF WILSON, WISCONSIN

SITE PLAN AND MONITORING WELL LOCATIONS	FIGURE
	2



**LEGEND**

- CCR RULE BACKGROUND MONITORING WELL
- CCR RULE PIEZOMETER (BEDROCK)
- LEACHATE HEADWELL
- MONITORING WELL (UNCONSOLIDATED)
- PIEZOMETER (UNCONSOLIDATED)
- PRIVATE WATER SUPPLY WELL
- LIMITS OF FINAL COVER
- POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR LINE (CONTOUR INTERVAL 1.0 FT)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- CCR RULE UNIT
- MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
- MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)
- FLOW PATH FOR VELOCITY CALCULATION
- 650.47 POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FT AMSL)

**NOTES**

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/04/2025.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. WELL INSTALLATION AND SURVEY INFORMATION, SEE SITE PLAN FIGURE 2 NOTES.
5. STATE MONITORING WELLS: WS-1, W-2, W-6, W-6A, W-10, W-10A, W-11A, W-12AR, W-17, W-17AR, W-18, W-18AR, W-19, W-19A, W-21, W-22, W-33A, W-34R, W-37, W-38, W-39, W-40, W-40A.
6. CCR BACKGROUND WELLS: MW-304 AND MW-305.
7. CCR WELLS: MW-301, MW-302, MW-303 AND MW-306.
8. LEACHATE POINTS: LCB-1, LHW-1, LVHW-1, LVHW-2, LHW-3, LVHW-3 AND LHW-4-1.
9. OTHER POINTS: PRIVATE WATER SUPPLY WELL WS-1.
10. WATER LEVELS MEASURED ON ON APRIL 21, 2025.



SCALE: 1" = 600'



DOCUMENT PATH: I:\24224069.00\DRAWINGS\43GW\43GW.APRX

PROJECT NO.	25225069.00	DRAWN BY:	AA
DRAWN:	05/07/2025	CHECKED BY:	NLB 01/08/2026
REVISED:	01/08/2026	APPROVED BY:	TK 01/09/2026

**SCS ENGINEERS**  
 2830 DAIRY DRIVE MADISON, WI 53718-6751  
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CLIENT  
 WISCONSIN POWER AND LIGHT CO.  
 3739 LAKESHORE DRIVE  
 SHEBOYGAN, WI 53081

SITE  
 ALLIANT ENERGY  
 I-43 ASH DISPOSAL FACILITY  
 TOWN OF WILSON, WISCONSIN

BEDROCK DEEP POTENTIOMETRIC GROUNDWATER  
 SURFACE ELEVATION CONTOUR MAP  
 APRIL 2025

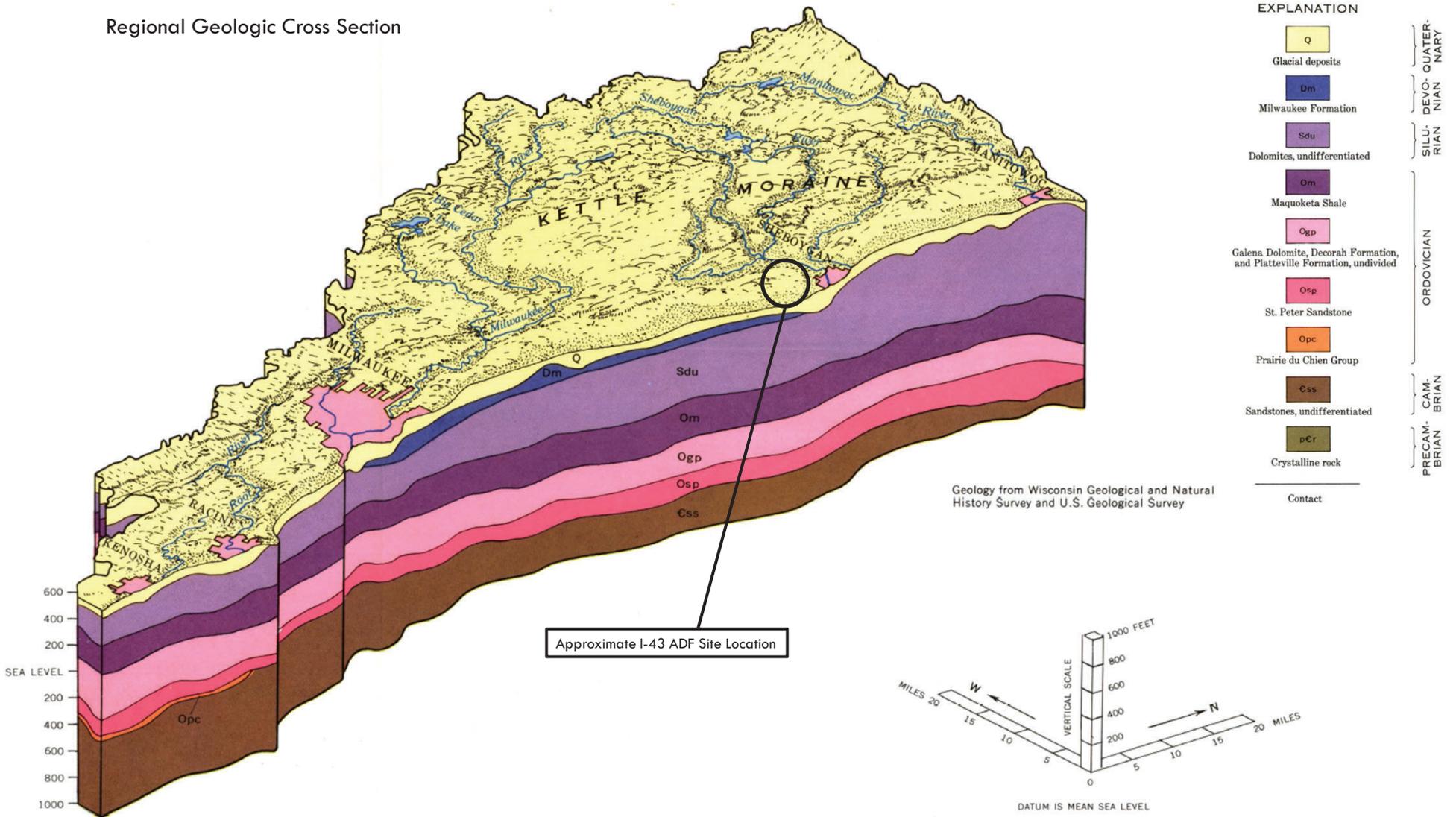
FIGURE  
 3





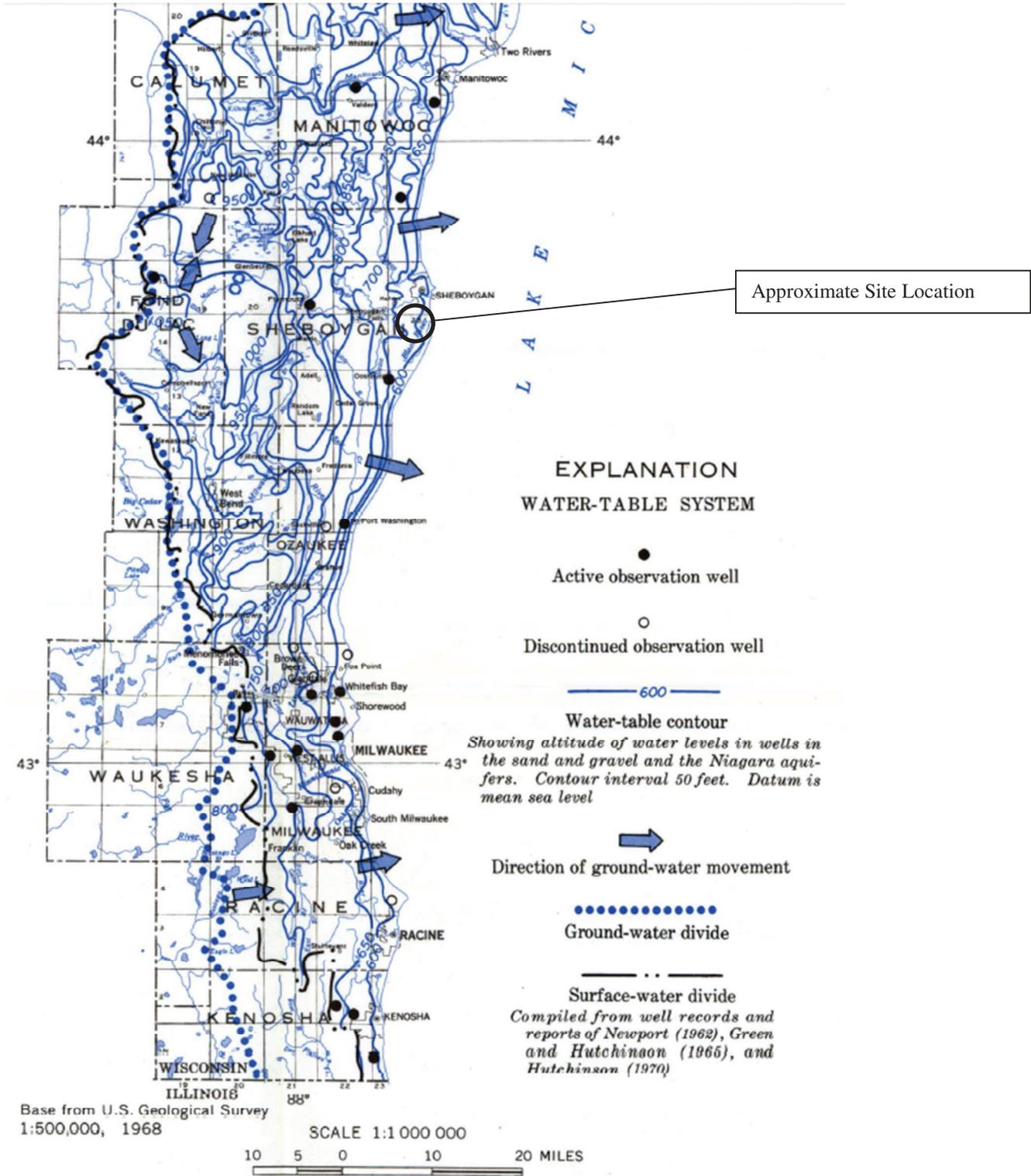
Appendix A  
Regional Hydrogeologic Information

# Regional Geologic Cross Section



Source: Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

## Regional Groundwater Flow Map – Uppermost Aquifer



Source: Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

**Table I43-3. Regional Hydrogeologic Stratigraphy  
Edgewater I-43 Landfill / SCS Engineers Project #25216069**

Age	Hydrogeologic Unit	General Thickness (feet)	Name of Rock Unit*	Predominant Lithology
Quaternary	Sand and Gravel Aquifer	0 to 235	Surface sand and gravel	Sand and Gravel
		0 to 300	Buried sand and gravel	
Devonian	Niagara Dolomite Aquifer	0 to 750	Dolomite (undifferentiated)	Dolomite
Silurian				
Ordovician	Confining Unit	0 to 400	Maquoketa Shale	Shale and dolomite
	Sandstone Aquifer	100 to 340	Galena Decorah Platteville	Dolomite
		0 to 330	St. Peter	Sandstone
		0 to 140	Prairie du Chien	Dolomite
Cambrian		0 to 3,500?	Trempeleau Franconia Galesville Eau Claire Mt. Simon	Sandstone, some Dolomite and Shale
Precambrian	Not an Aquifer	Unknown	Crystalline Rocks	Igneous and metamorphic rocks

Source:

Skinner, Earl L. and Ronald G. Borman, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

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Appendix B  
Boring Logs and Well Construction Documentation

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL-Edgewater I43		License/Permit/Monitoring Number SCS#: 25215135.20		Boring Number MW-301	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State			Date Drilling Started 12/15/2015	Date Drilling Completed 12/19/2015	Drilling Method HSA/rotary (mud)
WI Unique Well No. VV864	DNR Well ID No.	Common Well Name	Final Static Water Level Feet	Surface Elevation 694.40 Feet	Borehole Diameter 8.0 in.
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>			Local Grid Location		
State Plane 626,196 N, 2,559,679 E S/C/N			Lat _____ "	Feet <input type="checkbox"/> N <input type="checkbox"/> E	
SE 1/4 of NE 1/4 of Section 8, T 14 N, R 23 E			Long _____ "	Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County Sheboygan	County Code 60	Civil Town/City/ or Village Wilson Tn.		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S1	17	25 78	1	LEAN CLAY, brown (fill).	cl.										
			2	LEAN CLAY, red brown (7.5YR 4/6), moist, with fine to coarse sand, fine gravel, stiff, gray coatings on fractures, diamicton (till).					3.0	M					
S2	22	47 911	4						2.25						
			5												
S3	24	45 88	7						2.25						
			8	Softer, brittle, crumbles.	cl.										
S4	24	55	9						1.5						
			10	Color changes to (10.5YR 4/2).											
S5	22	34 77	13												
			14	LEAN CLAY, dark reddish gray (5YR 4/2), trace coarse sand, fine crumbly texture.						2.25					
			15												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Joe Larson <i>[Signature]</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
--	---	-----------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-301** Use only as an attachment to Form 4400-122. Page **2** of **6**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S6	24	3 5 8 8	16	LEAN CLAY, red brown, trace coarse sand and fine gravel.	cl.										
			17	Same as above.											
18															
19	Same except dark brown (7.5YR 4/4).	2.5	M												
20															
21															
22															
23															
S7	14	5 5 8 8	24	Dark brown (7.5YR 4/2).											
			25												
26															
27															
S8	24	4 5 8 8	28	LEAN CLAY, dark brown (7.5YR 4/4), trace medium to coarse sand, few fine sand partings, massive, diamicton (till).											
			29												
30															
31															
32															
S9	23	4 5 9 10	33	Same, massive to indistinctly laminated, trace fine gravel (dolomite), subrounded (till).											
			34												
35															
36															
37															
S10	24	5 5 8 10	38	Same											
			39												
40															
					1.25										

Boring Number **MW-301**

Use only as an attachment to Form 4400-122.

Page **3** of **6**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S11	24	55 119	41	LEAN CLAY, red brown (7.5YR 4/2).										
			42	Same as above.										
			43											
			44											
			45											
S12	24	57 99	48	Same.										
			49											
S13	24	67 1011	53		cl.									
			54											
S14	24	57 1010	58											
			59											
S15	24	56 78	63	Same, except less sand and fine gravel										
			64											
			65											

Boring Number **MW-301** Use only as an attachment to Form 4400-122. Page **4** of **6**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S16	24	3 8 8 14	66	LEAN CLAY, same as above.	CL									
			67											
S17	18	7 7 22	68		ML									
			69	SILT, light grey (5YR 6/1), laminated (lake sediment).										
S18	12	16 18 23	70		SM									
			71											
S19	24	13 9 12 14	72											
			73											
S20	24	14 20 23	74	SILTY SAND, grey, fine, with medium to coarse sand, trace fine gravel, mostly very fine sand (outwash).										
			75											
S21	24	9 14 19	76	LEAN CLAY, dark brown (7.5YR 4/2) with trace fine to coarse sand, fine gravel (sub-rounded dolomite), massive, diamicton, peds have fine crumbling texture.										
			77											
			78											
			79	Same, except less sand and gravel										
			80											
			81											
			82											
			83											
			84											
			85											
			86											
			87											
			88											
			89											
			90											

Boring Number **MW-301**

Use only as an attachment to Form 4400-122.

Page 5 of 6

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S22	24	10 12 14	91	LEAN CLAY, same as above.	CL									
			92											
			93											
			94	Same.										
			95											
S23	22	9 11 15	98	LEAN CLAY, dark grayish brown (10YR 4/2), massive to very indistinctly laminated, very plastic.										
			99											
			100											
			101											
			102											
S24	24	7 8 10	103	LEAN CLAY, dark grayish brown (10YR 4/2), massive to indistinctly laminated, very plastic (lake sediment).	CL									
			104											
			105											
			106											
			107											
S25	22	8 10 12	108											
			109											
			110											
			111											
			112											
S26	NR	8 10 13	113											
			114											
			115											

Boring Number		MW-301		Use only as an attachment to Form 4400-122.				Page 6 of 6						
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			116	LEAN CLAY, same as above.										
			117											
			118	Thinly laminated (lake sediment).	CL									
S27	24	WOR	119					3.5	M					Rods dropped
			120											
S28	22	17 20 21	121	SILT, greyish brown (10YR 5/2), with clay (lake sediment).	ML			2.0	M					
			122											
S29	9	19 50/3	123	SILTY GRAVEL, dolomite fragments, grey, with clayey silt (weathered bedrock).	GM									
			124	DOLOMITE (bedrock).										
			125											
S30			126											S30 sampled chips from 124'-128'.
			127											
			128											
			129		DOLOMITE									
			130											Lost circulation- no water/mud returning.
			131											
			132											
			133											
			134											
			135	End of boring @ 135.0'										
				Checked and edited by: BJS 3/30/2016										

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-302	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 12/4/2015		Date Drilling Completed 12/7/2015	
Drilling Method HSA/rotary (mud)		WI Unique Well No. VV863		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet		Surface Elevation 700.24 Feet		Borehole Diameter 8.0 in.			
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 625,788 N, 2,559,719 E S/C/N				Local Grid Location			
NE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E		Lat _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> S		Feet <input type="checkbox"/> E <input type="checkbox"/> W	
Long _____ ' _____ "		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	13	36 8 10	1-2	LEAN CLAY, strong brown (7.5YR 4/6) to dark brown (7.5YR 3/2) mottled, trace fine to coarse sand.					3.7	M				
S2	11	36 9 11	3-4	LEAN CLAY, brown (7.5YR 4/4), trace small, fine to coarse sand and fine gravel, possible clay and gravel fill @5' very hard, dry, diamicton (till).					3.5	M				
S3	18	58 10 14	5-7	LEAN CLAY, mottled, strong brown (7.5YR 4/6) and brown, trace fine to coarse sand, fine gravel, very slightly moist (till).	cl				2.5-4.0	M				
S4	15	44 7 8	8-9						2.0	M				
S5	19	36 10 12	10-14	Same as above, except brown (7.5YR 4/4), very hard, cohesive (till).					2.0-4.0	M				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Meghan Blodgett 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-302**

Use only as an attachment to Form 4400-122.

Page **2** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S6	24	3 4	16	LEAN CLAY, brown (7.5YR 4/4), trace fine to coarse sand, fine gravel, as above (till).										
		6 9	19											1.5
S7	24	2 3	23	Same as above, except dark brown (7.5YR 4/2), more moist (till).										
		5 6	24											1.5
S8	20	7 8	28	LEAN CLAY, brown (7.5YR 4/2), massive, trace fine to coarse sand, fine gravel (till).	cl.									
		7 9	29											1.0
S9	6	5 6	33											
		8 8	34											1.0
S10	24	5 8	38											
		10 11	39											1.0

Boring Number		MW-302		Use only as an attachment to Form 4400-122.				Page 3 of 7						
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S11	19	7 9	41	LEAN CLAY, brown (7.5YR 4/2), trace fine to coarse sand, fine gravel (till).										
		11 12	42											
			43											
			44											
			45											
S12	18	6 10	48	Same as above, except less sand and gravel.	cl.									
		12 12	49											
			50											
			51											
			52											
S13	24	7 7	53	LEAN CLAY, brown, trace fine to coarse sand, 1/8-3/4" fine to coarse sand seams at 58.5', 59', and 59.75', laminated with very thin silt partings (lake sediment).	cl.									
		10 10	54											
			55											
			56											
			57											
S14	24	7 9	58	SILT, brown (7.5YR 5/2), massive, little clay (lake sediment).	ML									
		11 12	59											
			60											
			61											
			62											
S15	24	7 9	63											
		12 12	64											
			65											

Boring Number **MW-302**

Use only as an attachment to Form 4400-122.

Page **4** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S16	18	14 18	66	SILT with sand, brown, massive, sand is very fine to fine.	ML									
		30 26	67	SILTY SAND, fine, massive.	SM									
S17	20	14 25	68	SILT WITH SAND, fine, loose, mostly very fine sand (lake sediment).										
		38 32	69											
S18	18	21 30	70	Same.										
		34 34	71											
S19	18	14 12	72	Same.										
		25 24	73											
S20	18	19 27	74		ML									
		28 28	75											
S21	18	21 29	76											
		33 30	77											
S22	16	23 32	78											
		30 28	79											
S23	16	19 21	80	POORLY GRADED SAND WITH SILT, fine with medium, brown to gray, loose (outwash).										
		21 27	81		SP-SM									
S24 A/S24 B	14	9 19	82											
		19 16	83	SILT, brown, little fine sand, massive to indistinctly laminated (lake sediment).										
S25	18	10 20	84		ML									
		23 24	85											
S25	18	10 20	88	LEAN CLAY, dark brown (7.5YR 4/2), massive, trace fine to coarse sand, fine gravel, very stiff, cohesive, diamicton (till).	CL									
		23 24	89											
			90											

Sand appears barely wet.

Boring Number **MW-302** Use only as an attachment to Form 4400-122. Page **5** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S26	20	12 18	91	LEAN CLAY, brown, massive, trace fine to coarse sand, fine gravel, as above (till).	CL									
		21 25	92											
				93	Same.									
				94										
				95										
S27	14	17 20	96	LEAN CLAY, brown (7.5YR 5/2), massive to indistinctly laminated, trace fine gravel, red/gray laminations (lake sediment).										
		22 12	97											
			98											
			99											
S28	24	8 10	100	LEAN CLAY, grayish brown (10YR 5/2), laminated, with very thin silt partings, very stiff, hard (lake sediment).	CL									
		13 14	101											
			102											
			103											
			104											
S29	24	7 9	105	Same as above, except silt is concentrated in 1mm layers spaced 2-6" apart.										
		12 14	106											
			107											
			108											
S30		7 9	109	Same except dark grayish brown (10YR 4/2), laminated, fewer silt partings, very plastic (lake sediment).										
		12 14	110											
			111											
			112											
			113											
			114											
			115											

Boring Number **MW-302**

Use only as an attachment to Form 4400-122.

Page **6** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			116	LEAN CLAY, same as above, very plastic, laminated (lake sediment).										
			117											
S31	24	7 8 10 12	119	Same.	CL				1.0					S30 was not collected
			120											
S32	24	9 10 12 13	121						0.5- 1.0					
			122											
S33	24	11 13 18 18	123	Same as above, very plastic, laminated, few silt partings (lake sediment).					2.0					
S34			124											
S35	24	14 22 30/5	125	LEAN CLAY WITH SAND, grayish brown, sand is fine.	CL				0.5					
S36			126	SILT WITH SAND, grayish brown, mostly very fine sand, cohesive.	ML									
S37	24	30 25 28 24	127	LEAN CLAY WITH SAND, grayish brown, sand is fine, some silt, laminated to thinly bedded clay and silt (lake sediment).					0.5					
S38			128											
S39	24	15 17 19 17	129	Thinly bedded silty fine sand and clay.	CL				0.5- 1.0					
			130											
S40	6	21 19 50/3	131	With dolomite gravel.										
			132											
			133	DOLOMITE, light gray and brownish gray, dark and light laminations, massive, some pitted and vuggy, mostly without mineralization, vertical fractures common.										
			134											
			135											
			136		DOLOMITE									
			137											
S41	0	50/3	138											
			139	Shaly zone (6') at ~138.5. gray, mineralized fractures below 139'.										Convert to rock coring. Run 1 133'-143'-No water return below 139'.
			140											

Boring Number **MW-302**

Use only as an attachment to Form 4400-122.

Page **7** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			141	DOLOMITE (bedrock).										
			142	Very vuggy and mineralized vugs and fractures below 142'.	DOLOMITE									TCR=126/120
			143											TCR=100%
			144	Blind drilled 144-148'										SCR=103/120
				End of boring @ 148'										MCR=86%
				Logged by: Zach Watson: 0-28' Meghan Blodgett: 28-110' Tony Kollasch: 110-144'										MCR=68.5/120
				Checked and edited by: BJS 3/30/2016										MCR=57%
														RQD=57%
														Fair

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-303			
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 11/30/2015		Date Drilling Completed 12/4/2015			
Drilling Method HSA/rotary (mud)		WI Unique Well No. VV865		DNR Well ID No.		Common Well Name			
Final Static Water Level Feet		Surface Elevation 716.60 Feet		Borehole Diameter 8.0 in.					
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 625,616 N, 2,560,451 E S/C/N				Local Grid Location					
NE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E				Lat _____ " _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E			
				Long _____ " _____ "		Feet <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.			

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14	12 24	1 2	LEAN CLAY, strong brown (7.5YR 4/6), med plasticity, mottled coloring, trace coarse sand.	cl				1.5	M				
S2 A, B	14	41 22	4 5	SILTY SAND layer, fine to coarse @ 5-5.5'.	SM				0.75	M				
S3	24	47 1011	6 7	LEAN CLAY, (7.5YR 4/4), trace sand, fine to coarse, fine gravel, very stiff, firm, massive, diamicton (till).					2.8-4.0	W				
S4	18	25 79	9 10	Same.	cl				3.0	W				
S5	22	23 46	14 15						1-1.8	W				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Zach Watson <i>[Signature]</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
---	---	-----------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

Page **2** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			16	LEAN CLAY, (7.5YR 4/4), as above.										
S6	24	3 4 6 8	19-20					2.0	W					
S7	24	3 5 6 7	24-25	Same.	cl.			1.5- 2.0	W					
S8	24	3 6 7 8	29-30	Same.				1.5	W					
S9	24	3 5 7 9	34-35					2.2	W					
S10	6	6 9 11 13	39-40	Same as above, except very soft and saturated.				NA	W					

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

Page **3** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			41	LEAN CLAY, (7.5YR 4/4).										
S11	6	10 12 12 16	44 45							W				
S12	24	5 6 8 10	49 50	(no sample retained)					1.3	W				
			51		cl.									
S13	21	3 7 7 9	54 55	LEAN CLAY (7.5YR 4/4), fine to coarse sand, fine gravel, firm, massive, diamicton (till).					1.0	W				
S14	19	10 11 13 10	59 60	Same.					1.0	W				
S15	11	4 6 9 11	64 65						0.5	W				

Boring Number		MW-303		Use only as an attachment to Form 4400-122.				Page 4 of 7						
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			66	Same.										
			67											
			68											
S16	4	9 34 50/5	69	LEAN CLAY WITH SAND, brown (7.5YR 4/4), soft, sand fine to coarse.				0	W					
			70											
			71											
			72											
			73											
S17	7	8 12 12 13	74	Some as above, except trace fine to coarse sand.	CL			0	W					
			75											
			76											
			77											
			78											
S18	24	3 6 5 7	79	Same as above except, soft in some areas and stiff in others.				0.5	W					
			80											
			81											
			82											
			83											
S19	15	19 22 25 31	84	SANDY SILT, (10YR 5/4), fine sand, very uniform grains, loose, mostly very fine sand, non-plastic.					W					
			85											
			86		ML									
S20	3	16 16 23 25	87						W					
			88											
S21	20	20 18 13 14	89	LEAN CLAY, brown (7.5YR 4/4), trace coarse sand, massive to indistinctly laminated (lake sediment).	CL				W					
			90											



Boring Number **MW-303** Use only as an attachment to Form 4400-122.

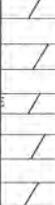
Page **6** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S28	5	50/4	116	LEAN CLAY, 7.5 YR 5/2, trace gravel.	SM									
			117		CL				2.5	W				
			118											
S29	5	50/5	119	SILTY SAND WITH GRAVEL, fine, with medium and coarse sand, greys, blues whites and browns, gravel is fine and coarse.										
			120							W				
S30	8	41 50/4	121	SILTY SAND, fine to coarse grained, trace fine gravel, fine (outwash).										
			122							W				
S31	2	50/4	123											
			124							W				
S32	10	31 50/4	125		SM									
			126											
			127	Same.							W			
			128											
S33	3	50/5	129											
			130								W			
S34	4	50/4	131	SILT, some gravel, very dense/stiff (weathered bedrock).	ML									
			132						4.5	W				
			133	DOLOMITE (bedrock).										
			134											
			135											
			136		DOLOMITE									
			137											
			138											
			139											
			140											

Boring Number **MW-303**

Use only as an attachment to Form 4400-122.

Page **7** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			141 142 143	DOLOMITE (bedrock).	DOLOMITE									
				End of boring @ 143.5' Checked and edited by: BJS 3/30/2016										

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL-Edgewater I43		SCS#: 25215135.20		License/Permit/Monitoring Number		Boring Number MW-304	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Durst Badger State				Date Drilling Started 1/25/2016		Date Drilling Completed 1/26/2016	
WI Unique Well No. VV866		DNR Well ID No.		Common Well Name		Final Static Water Level Feet	
						Surface Elevation 689.48 Feet	
						Borehole Diameter 8.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/>				Local Grid Location			
State Plane 624,204 N, 2,558,156 E S/C/N				Lat _____ "		Feet <input type="checkbox"/> N	
SW 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E				Long _____ "		Feet <input type="checkbox"/> E	
						Feet <input type="checkbox"/> S	
						Feet <input type="checkbox"/> W	
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Wilson Tn.	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14	25 6 11	1 2	LEAN CLAY, brown (7.5YR 4/6), with fine to coarse sand, fine gravel.	CL				3.5	M				
S2	14	46 5 9	3 4	Same as above, except dark brown.					3.5	M				
S3	24	25 8 11	5 7	LEAN CLAY, brown (7.5YR 4/6), with silt layers, cohesive, stiff.					3.25	M				
S4	24	45 9 10	8 9	LEAN CLAY, brown (7.5YR 4/4), with fine to coarse sand, fine gravel, massive, stiff, diamicton (till).  1 inch interval of sand, fine to medium grained, brown.	CL				3.25	M				
S6	24	24 4 5	10 14	LEAN CLAY, as above (till).					1.5	M				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Joe Larson <i>Joe Larson</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: (608) 224-2830 Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-304** Use only as an attachment to Form 4400-122. Page **2** of **6**

Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200			
S7	22	3 4 4 6	18-19	LEAN CLAY, brown (7.5YR 4/4), as above (till).	cl.			1.25	M							
S8	22	2 3 5 6	23-24													
S9	24	2 4 6 7	28-29													
S10	24	3 5 6 9	33-34													
S11	24	3 6 8 12	38-39					Same with fine silt partings.				2.5	M			

Boring Number **MW-304**

Use only as an attachment to Form 4400-122.

Page 3 of 6

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S12	24	4 4 5 8	41	LEAN CLAY, brown.	CL									
			42											
			43	CLAYEY SILT, brown (7.5YR 4/6).	ML									
S13	24	2 4 4 6	44								M			
			45	LEAN CLAY WITH SAND, brown (7.5YR 4/6), fine to coarse.										
			46											
S14	24	4 5 8 11	47		CL									
			48											
			49						0.75	W				
S15	16	5 13 23 25	50	LEAN CLAY, brown (7.5YR 4/6).										
			51											
			52											
S16	12	8 11 18 20	53											
			54	SILTY SAND, brown, fine to medium grained.	SM						1.5	M		
			55	CLAYEY SAND, fine to coarse.										
S17	20	15 23 31 30	56											
			57		SC									
			58											
S15	16	5 13 23 25	59	POORLY GRADED SAND WITH SILT, grey (10YR 4/2), fine to medium grained (outwash).							0.5	W		
			60											
			61	Same.	SP-SM								W	
S17	20	15 23 31 30	62											
			63	Same except mostly very fine sand.										
			64	LEAN CLAY, with fine to coarse sand, fine gravel, diamicton (till)	CL									
			65											

Boring Number		MW-304		Use only as an attachment to Form 4400-122.				Page 4 of 6						
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S18	20	14 19 15 15	66	LEAN CLAY, brown (7.5YR 4/6).	cl.			2.5	M					
S19	8	50/5	69	LEAN CLAY, with layers of SILT, fine to coarse sand (lake sediment).				4.5	M					
S20		8 10 15 17	74	LEAN CLAY, dark brown (7.5YR 4/2), laminated, very plastic (lake sediment).	cl.			1.25	M					
S21	24	7 11 14 15	79	Same with few silt partings, very stiff.				2.75						
S22	12	25 50/5	84	SILTY SAND, grey, fine to coarse grained, dense, trace gravel.				>4.5						
S23	16	21 34 42 46	86		SM				W					
S24	1	50/2	88	Limestone rock fragments, with fine and coarse gravel.										

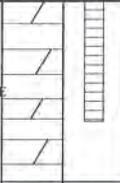
Boring Number **MW-304**

Use only as an attachment to Form 4400-122.

Page **5** of **6**

Sample			Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)	Blow Counts							Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S25	3	50/4	91	Same, diamicton.										
S26	2	50/5	92		SM									S26 was skipped.
S27	24	34 31 42 52/3	93-94	SILTY SAND and SILT, except dark grayish brown (10YR 4/2), sandstone fragments, fine sand, fine gravel, cohesive, brittle.					W					
S28	14	30 39 50/3	95-96		SM				W					
S29	12	20 34 50/5	97-98						W					
S30	12	37 50/4	99-100	FAT CLAY WITH GRAVEL, brown (7.5 4/3), sandstone fragments, fine to coarse sand, fine gravel.	CH				4.5	W				
S31	12	16 35 50/4	101-102	SILTY SAND, dark grayish brown (10YR 4/2).	SM				1.5	W				
S32	18	17 35 50/4	103-104	LEAN CLAY, very dark brown (7.5 YR 2.5/2). SILTY SAND, dark grayish brown (10YR 4/2), fine grained.	CL					W				
S33	8	17 50/2	105-106	SANDY LEAN CLAY, dark brown (7.5YR 3/2), trace gravel.	CL				4.0	W				Bedrock at 106.5 ft bgs.
S34	2	50/3	107-108	SILTY SAND, dark grayish brown (10YR 4/2), fine grained, (weathered bedrock).	SM									
S35	NA		109-115	DOLOMITE, gray (7.5YR 6/1), angular fragments.										

Boring Number **MW-304** Use only as an attachment to Form 4400-122. Page **6** of **6**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S36	NA		116 117 118	DOLOMITE, gray (7.5YR 6/1), angular fragments.	DOLOMITE									
				End of boring @ 118'	Logged by: Joe Larson: 0-93' Kyle Kramer: 93-118'  Checked and edited by: BJS 3/30/2016									

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL I43		SCS#: 25217032.00		License/Permit/Monitoring Number		Boring Number MW-305			
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Duerst Badger State Drilling				Date Drilling Started 1/30/2017		Date Drilling Completed 2/2/2017			
Drilling Method HSA/Rotary		WI Unique Well No. VY819		DNR Well ID No.		Common Well Name MW-305			
Final Static Water Level Feet		Surface Elevation 715.46 Feet		Borehole Diameter 6.3 in.					
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 623,435 N, 2,559,946 E S/C/N SE 1/4 of SE 1/4 of Section 8, T 14 N, R 23 E				Local Grid Location Lat _____ ' _____ " _____" Long _____ ' _____ " _____"				Feet <input type="checkbox"/> N <input type="checkbox"/> S	
Feet <input type="checkbox"/> E <input type="checkbox"/> W		Facility ID		County Sheboygan		County Code 60			
				Civil Town/City/ or Village Wilson Tn.					

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	TOPSOIL.											
S1	8	22 4	2	LEAN CLAY, strong brown (7.5YR 4/6).						1.75					
S2	14	48 11	5							4.5+					
S3	18	71 14	7		CL					4.5+					
S4	18	41 9	9							4.5+					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53711	Tel: (608) 224-2830 Fax:
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



Boring Number **MW-305**

Use only as an attachment to Form 4400-122.

Page **3** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S9	18	58 9	33 34 35					2.5						
S10	18	47 9	38 39 40					2.5						
			41 42 43	CL										
S11	18	37 8	43 44 45					2.5						
			46 47 48											
S12	18	39 13	48 49 50					2.0						
			51 52											

Boring Number **MW-305** Use only as an attachment to Form 4400-122.

Page 4 of 7

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S13	18	55 8	53 54 55 56 57 58	Same as above except, brown (7.5YR 4/3).					2.5					
S14	18	55 6	59 60 61 62 63		CL				1.5					
S15	12	55 16	64 65 66 67 68						3.0					
S16	12	13 16 16	69 70	POORLY GRADED SAND, gray (10YR 5/1), medium to coarse grained.	SP									
S17	20	14 19 20 22	71 72	SILTY SAND, brown (7.5YR 4/3), fine grained.	SM									

Boring Number **MW-305**

Use only as an attachment to Form 4400-122.

Page **5** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S18	16	9 9	73	LEAN CLAY, brown (7.5YR 4/3).	SM									
		10 16	74		CL									
S19	18	8 16	75	POORLY GRADED SAND, gray (10YR 5/1), fine to medium grained.										
		18 21	76											
S20	16	8 18	77											
		20 23	78											
S21	16	15 20	79											
		23 30	80											
S22	16	15 23	81											
		26 31	82											
S23	18	21 18	83		SP									
		29 31	84											
S24	18	17 30	85											
		33 33	86											
S25	16	15 20	89											
		30 30	90											
			91											
			92											

Boring Number **MW-305** Use only as an attachment to Form 4400-122.

Page **6** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S26	18	18 23 25 29	93 94 95 96 97												
S27	14	10 22 24 25	98 99 100 101 102	Same as above except, trace coarse gravel.	SP										
S28	12	13 13 10 18	103 104 105 106 107	Same as above except, trace coarse gravel.											
S29	12	23 42 50/0.5	108 109 110												
			111 112	DOLOMITE, gray (10YR 5/1), weathered.											

Boring Number **MW-305** Use only as an attachment to Form 4400-122. Page **7** of **7**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			113											
			114											
			115											
			116											
			117											
			118											
			119											
S30			120											
			121	End of boring at 121 ft bgs.										

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL - I-43 Ash Disposal Facility		SCS#: 25224159		License/Permit/Monitoring Number		Boring Number MW-306	
Boring Drilled By: Name of crew chief (first, last) and Firm Adam Sweet Horizon Construction and Exploration				Date Drilling Started 5/30/2024		Date Drilling Completed 6/3/2024	
WI Unique Well No. VS193		DNR Well ID No.		Common Well Name MW-306		Final Static Water Level Feet MSL	
				Surface Elevation 690.26 Feet MSL		Borehole Diameter 6.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/> State Plane 626,576 N, 2,559,143 E S/C/N NW 1/4 of NE 1/4 of Section 8, T 14 N, R 23 E				Lat 43° 41' 50.74" Long 87° 45' 58.90"		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Sheboygan		County Code 60		Civil Town/City/ or Village Sheboygan	

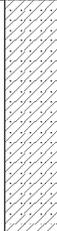
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	23.5		1.5	3" gravel from drill pad on top. LEAN CLAY, dark yellowish brown (10yr 4/6), w/ roots and trace subround gravel.					2.25	M				First run 7', following runs are 5'.
			3.0	Thin black lamination (lake sediment?).										
S2	23		4.5	Same as above, but black lamination is now black mottle. Some yellow mottle/splotches.	CL				1.0-1.25	W?				Samples from: 0'-7', 7'-12', 12'-17', 17'-22'. In line with water feature, could be saturated (very soft).
			6.0	Same as above, but yellowish brown (10yr 5/4), black mottle replaced with white mottle. Fine to coarse subround to subangular gravel.										
S3	60		7.5	Same as above, but yellowish brown (10yr 5/4), black mottle replaced with white mottle. Fine to coarse subround to subangular gravel.					4.5	M				Greater than 60', expanded extra 10'
			9.0	Same as above, but no mottle with yellow Fe stained splotches (till?).										
			10.5											
			12.0											
			13.5											
			15.0											
			16.5											
			18.0											
			19.5											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Bridget Dinnell</i>	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718	Tel: Fax:
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Boring Number **MW-306** Use only as an attachment to Form 4400-122. Page **2** of **5**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S4-S5	80		21.0 22.5 24.0 25.5	Same as above. Trace fine rounded gravel, subangular coarse gravel.	CL				2.5	M				17'-22' fell out of barrel, recovered in 17'-27' push. Still separated out to S4 and S5 in sample bags.
			27.0 28.5 30.0	SANDY CLAY? Likely a sandy layer, fine sand is coating the clay, core from 10' push, low recovery for 10' push to 37'	SC									
S6-S7	77		31.5 33.0 34.5 36.0	Same as above, color change to brown (10yr 4/3)	CL				3.25	M				Samples from: 22-27', 27-32', 32-37', 37-42'. 27-32' was lost originally in 5' push, and recovered in 10' push to 37'.
			37.5 39.0	Same as above.	CL									
S8	51		40.5 42.0 43.5	More sand (fine and round), still brown and still containing trace fine to coarse subround to subangular gravel	CL				1.25	M				Switched to 10' runs due to better recovery than with 5' runs. Assumed to be losing sand seams.
			45.0	SANDY CLAY (10yr 4/3).	SC									
			46.5	POORLY GRADED SAND, fine to medium grain size with round grains, brown (10yr 4/3).	SP									
			48.0 49.5 51.0	No recovery, but assumed to be same fine to medium sand.	SP									
S9	0		52.5											Samples from 37'-45', 45'-47', and 47'-57' were

Boring Number **MW-306** Use only as an attachment to Form 4400-122. Page **3** of **5**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments									
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200										
S10	44		54.0		SP									lost. Driller says it feels like the same sand at the bottom of previous run. Adding a new shoe to prevent from happening again.									
		55.5																					
		57.0		POORLY GRADED SAND, brown (10yr 4/3), trace silt and fine subround gravel (outwash)																			
		58.5																					
		60.0																					
S11	60		61.5		SP									Samples collected from 57'-66', 66'-67', and 67'-77'.									
		63.0																					
		64.5																					
		66.0		SANDY CLAY, with silt and fine angular gravel (10yr 4/3).	SC																		
		67.5		LEAN CLAY, same color as above, but some laminations of reddish brown first few feet (lake sediment) and fine to coarse subangular to subround gravel.																			
S12	70		69.0											Samples collected from 77'-87' (including silt seam), 87'-97'. Silty coating around core, likely silt/sand that fell out when pulling core.									
		70.5																					
		72.0															2.5-2.75	W					
		73.5																					
		75.0																					
S12	70		76.5		CL																		
		78.0		Trace sand and fine to coarse subangular to subround gravel. No more laminations.	CL																		
		79.5																					
		81.0		Same as above, but brown (10yr 4/3)	CL																		
		82.5																1.75	W				

Boring Number **MW-306** Use only as an attachment to Form 4400-122. Page **4** of **5**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S13	42		87.0	LEAN CLAY, brown (10yr 4/3 and 5/3), with silt and fine coarse rounded gravel. Thin bedding alternating between two brown colors is present (lake sediment).	CL				2.75-3.0	W				End of 5/30/2024.
			88.5											
S14	71		91.5	LEAN CLAY, grayish brown (10yr 5/3) massive, no gravel/silt, trace Fe staining.	CL				2.75	W				Resumed drilling 5/31/2024 at 97' below ground surface.
			93.0											
			94.5											
S15	73		96.0	Same as above.	CL				3.0	W				Samples collected from 97'-107' and 107'-117'
			97.5											
			99.0											
			100.5											
			102.0											
	103.5	Same as above but dark greyish brown (10yr 4/2).												
	105.0													
	106.5													
	108.0													
	109.5													
	111.0													
	112.5													
	114.0													
	115.5													
	117.0													
	118.5													
	120.0			Same as above but with fine to coarse round gravel (till?).	CL									

Boring Number **MW-306** Use only as an attachment to Form 4400-122. Page **5** of **5**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S16	64		121.5		CL				1.5	W				Rock hit around 122'-123'. Rock fragments in clay. Hit solid bedrock at 125'.
			123.0	SILTY CLAY (CL-ML), brown (4.5yr 4/3) interbeds, 2-4", and massive LEAN CLAY 1" (10yr 5/3). Only silty clay beds contain fine to coarse round gravel.	CL-ML									
S17	18		124.5	LOW PLASTICITY GRAVELLY CLAY, "Dolomite Bedrock", 5" dolomite recovered white (10yr 8/1), still in SILTY CLAY.	CLG									Samples collected from 117'-123', 123'-125', 125'-126', 126'-127', and 127'-132'. Going back to 5' runs.
			126.0	"GP-GM", "POORLY GRADED GRAVEL WITH SILT" (DOLOMITE BEDROCK), 2" in 126-127', white (10yr 8/1) and dark grey fine to coarse angular "gravel". Silt is brown (10yr 5/3).										
S18	33		127.5	Same as above.	BEDROCK				2.0	W				Called "GP" based on recent soil logging expectations for when hitting bedrock. Bedrock is in parentheses. Collected sample of full run from 132'-137'.
			129.0											
			130.5											
			132.0											
			133.5											
			135.0											
			136.5	1' 2.5" solid DOLOMITE core, greenish grey (GLEY 5G 6/1) and white (GLEY N8/) and dark grey mineralized veins, and vugs, visible grains fine to very fine. Pyrite and other minerals in fractures, vugs and veins. Some chlorite splotches? (sky blue). End of Boring at 137' below ground surface.	BEDROCK									

State of Wisconsin  
Department of Natural Resources

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-Edgewater I43	Local Grid Location of Well 626196.3 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2559679 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-301
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. VV864
Facility ID 460022090	St. Plane 626196.3 ft. N. 2559679.0 ft. E. S/C/N	Date Well Installed 1 / 14 / 2016
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Durst
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____
Enf. Stds. Apply <input type="checkbox"/>		Badger State Drilling

- A. Protective pipe, top elevation --- 697.21 ft. MSL
- B. Well casing, top elevation --- 696.96 ft. MSL
- C. Land surface elevation --- 694.40 ft. MSL
- D. Surface seal, bottom --- 693.90 ft. MSL or --- 0.5 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

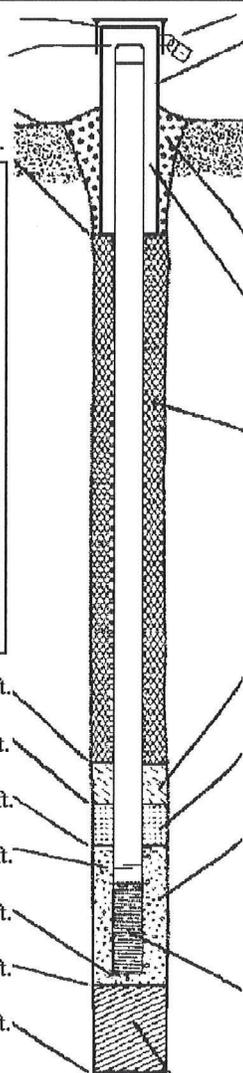
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
 Other

15. Drilling fluid used: Water  02 Air  01  
 Drilling Mud  03 None  99

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
 Site Supply Well



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: --- 4 in.
  - b. Length: --- 7 ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: yes, bumper posts (3)
- 3. Surface seal: Bentonite  30  
Concrete  01  
Other  8 bags 3/8in Bentonite chips
- 4. Material between well casing and protective pipe: Bentonite  30  
Ohio #5 sand- 2 bags Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  35
  - c. 200 Lbs/gal mud weight . . . . . Bentonite slurry  31
  - d. \_\_\_ % Bentonite . . . . . Bentonite-cement grout  50
  - e. \_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  01  
Tremie pumped  02  
Gravity  08
- 6. Bentonite seal:
  - a. Bentonite granules  33
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  32
  - c. 2 Bags Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
a. Ohio #7   
b. Volume added 0.5 lbs ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
a. Ohio #5   
b. Volume added 3 lbs ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  23  
Flush threaded PVC schedule 80  24  
Other
- 10. Screen material: PVC  
a. Screen type: Factory cut  11  
Continuous slot  01  
Other   
b. Manufacturer Monoflex  
c. Slot size: 0.01 in.  
d. Slotted length: --- 5 ft.
- 11. Backfill material (below filter pack): None  14  
Bedrock cuttings/slough

- E. Bentonite seal, top --- 566.40 ft. MSL or --- 118 ft.
- F. Fine sand, top --- 571.40 ft. MSL or --- 123 ft.
- G. Filter pack, top --- 569.40 ft. MSL or --- 125 ft.
- H. Screen joint, top --- 567.40 ft. MSL or --- 127 ft.
- I. Well bottom --- 562.40 ft. MSL or --- 132 ft.
- J. Filter pack, bottom --- 562.40 ft. MSL or --- 132 ft.
- K. Borehole, bottom --- 559.40 ft. MSL or --- 135 ft.
- L. Borehole, diameter --- 8.0 in.
- M. O.D. well casing --- 2.4 in.
- N. I.D. well casing --- 1.9 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* for J.L. Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin  
Department of Natural Resources

Route to:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-143	Local Grid Location of Well 625788.4 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2559719 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-302
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. " Long. " or	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/> VV863
Facility ID 460022090	St. Plane 625788.4 ft. N, 2539719.0 ft. E. S/C/N	Date Well Installed 1 / 15 / 2016 m m d d y y v v
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm Kevin Durst
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____ Badger State Drilling

A. Protective pipe, top elevation	702.81 ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	702.57 ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	700.24 ft. MSL	a. Inside diameter:	4 in.
D. Surface seal, bottom	699.74 ft. MSL or 0.5 ft.	b. Length:	7 ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		If yes, describe: ves. bumper posts (3)	
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
Bedrock <input checked="" type="checkbox"/>		10 bags 3/8in Bentonite chips	
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 3.0 Other <input type="checkbox"/>
14. Drilling method used:	Rotary <input checked="" type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	Ohio #5 sand-2 bags	
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1	Drilling Mud <input type="checkbox"/> 0.3 None <input type="checkbox"/> 9.9	5. Annular space seal:	a. Granular/Chipped Bentonite <input type="checkbox"/> 3.3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3.5 c. 200 Lbs/gal mud weight . . . Bentonite slurry <input checked="" type="checkbox"/> 3.1 d. _____ % Bentonite . . . . Bentonite-cement grout <input type="checkbox"/> 5.0 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed:	Tremie <input checked="" type="checkbox"/> 0.1 Tremie pumped <input checked="" type="checkbox"/> 0.2 Gravity <input type="checkbox"/> 0.8
Describe _____		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3.2 c. 2 Bags Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): Site supply well		7. Fine sand material: Manufacturer, product name & mesh size	
E. Bentonite seal, top	572.24 ft. MSL or 128 ft.	a. 1 bag Ohio #7	<input type="checkbox"/>
F. Fine sand, top	567.24 ft. MSL or 133 ft.	b. Volume added 0.5 ft <sup>3</sup>	
G. Filter pack, top	565.24 ft. MSL or 135 ft.	8. Filter pack material: Manufacturer, product name & mesh size	
H. Screen joint, top	563.24 ft. MSL or 137 ft.	a. Ohio #5	<input type="checkbox"/>
I. Well bottom	558.24 ft. MSL or 142 ft.	b. Volume added 3 ft <sup>3</sup>	
J. Filter pack, bottom	558.24 ft. MSL or 142 ft.	9. Well casing:	Flush threaded PVC schedule 40 <input type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2.4 Other <input type="checkbox"/>
K. Borehole, bottom	552.24 ft. MSL or 148 ft.	10. Screen material: PVC	
L. Borehole, diameter	8.0 in.	a. Screen type:	Factory cut <input type="checkbox"/> 1.1 Continuous slot <input checked="" type="checkbox"/> 0.1 Other <input type="checkbox"/>
M. O.D. well casing	2.4 in.	b. Manufacturer Monoflex	
N. I.D. well casing	1.9 in.	c. Slot size: 0.01 in.	
		d. Slotted length: 5 ft.	
		11. Backfill material (below filter pack):	None <input type="checkbox"/> 1.4 Limestone Chips Other <input checked="" type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *[Signature]* for M.H. Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin  
Department of Natural Resources

Route to:  Watershed/Wastewater  Remediation/Redevelopment  Waste Management  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-143	Local Grid Location of Well 625615.5 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2560451 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-303
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> N or <input type="checkbox"/> S or <input type="checkbox"/> E or <input type="checkbox"/> W Lat. _____ " Long. _____	Wis. Unique Well No. VV865
Facility ID 460022090	St. Plane 625615.5 ft. N, 2560451.0 ft. E. S/C/N	DNR Well ID No. _____
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW <sub>1</sub> /4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 12 / 03 / 2015 m m d d y y v v v y
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: Name (first, last) and Firm Kevin Durst
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____	Badger State Drilling

- A. Protective pipe, top elevation -- 719.48 ft. MSL
- B. Well casing, top elevation -- 719.25 ft. MSL
- C. Land surface elevation -- 716.60 ft. MSL
- D. Surface seal, bottom -- 716.10 ft. MSL or -- .50 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

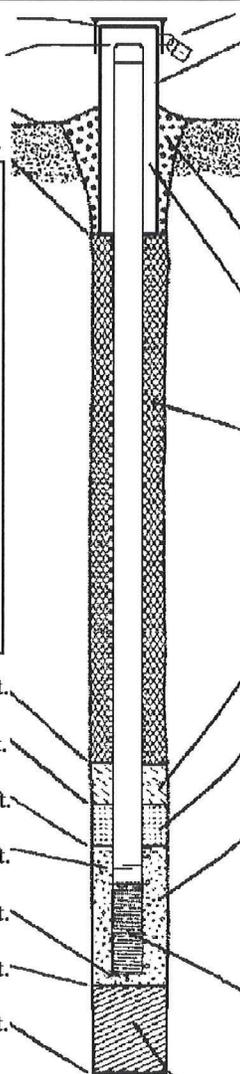
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
 Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis, if required):  
 Site supply well



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: -- 6 in.
  - b. Length: -- 5 ft.
  - c. Material: Steel  0 4  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: ves. bumper posts (3)
- 3. Surface seal: Bentonite  3 0  
Concrete  0 1  
Other
- 4. Material between well casing and protective pipe: Bentonite  3 0  
Ohio #5 sand Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  3 3
  - b. \_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  3 5
  - c. 150 Lbs/gal mud weight . . . Bentonite slurry  3 1
  - d. \_\_\_ % Bentonite . . . . . Bentonite-cement grout  5 0
  - e. \_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  0 1  
Tremie pumped  0 2  
Gravity  0 8
- 6. Bentonite seal:
  - a. Bentonite granules  3 3
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  3 2
  - c. \_\_\_ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
  - a. Ohio #7
  - b. Volume added 0.5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size
  - a. Ohio #5
  - b. Volume added 1.50 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  2 3  
 Flush threaded PVC schedule 80  2 4  
 Other
- 10. Screen material: PVC
  - a. Screen type: Factory cut  1 1  
Continuous slot  0 1  
Other
  - b. Manufacturer Model flex
  - c. Slot size: 0.01 in.
  - d. Slotted length: -- 5 ft.
- 11. Backfill material (below filter pack): None  1 4  
 Native Other

- E. Bentonite seal, top -- 588.60 ft. MSL or -- 128 ft.
- F. Fine sand, top -- 583.60 ft. MSL or -- 133 ft.
- G. Filter pack, top -- 581.60 ft. MSL or -- 135 ft.
- H. Screen joint, top -- 579.60 ft. MSL or -- 137 ft.
- I. Well bottom -- 574.60 ft. MSL or -- 142 ft.
- J. Filter pack, bottom -- 574.60 ft. MSL or -- 142 ft.
- K. Borehole, bottom -- 573.60 ft. MSL or -- 143 ft.
- L. Borehole, diameter -- 6.0 in.
- M. O.D. well casing -- 2.4 in.
- N. I.D. well casing -- 1.9 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Zach Watson* Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

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State of Wisconsin  
Department of Natural Resources

Route to:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name WPL-I43	Local Grid Location of Well 624204 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2558156 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.		Well Name MW-304
Facility License, Permit or Monitoring No. 02853	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> " or	Wis. Unique Well No. VV866	DNR Well ID No.
Facility ID 460022090	St. Plane 624204.0 ft. N. 2558156.0 ft. E. S/C/N	Date Well Installed 1 / 26 / 2016 m m d d y y v v	
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst	
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number Badger State Drilling

A. Protective pipe, top elevation -- 692.38 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation -- 691.97 ft. MSL	2. Protective cover pipe: a. Inside diameter: -- 6 in.
C. Land surface elevation -- 689.48 ft. MSL	b. Length: -- 5 ft.
D. Surface seal, bottom -- 688.98 ft. MSL or -- 0.5 ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>yes, bumper posts</u>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input checked="" type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> sand
15. Drilling fluid used: Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. 200 Lbs/gal mud weight . . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	f. How installed: Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
17. Source of water (attach analysis, if required): <u>Site supply well</u>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. <u>Black Hills Bentonite</u> Other <input type="checkbox"/>
E. Bentonite seal, top -- 586.48 ft. MSL or -- 103 ft.	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Ohio #5</u> <input type="checkbox"/>
F. Fine sand, top -- 581.48 ft. MSL or -- 108 ft.	b. Volume added <u>0.5</u> ft <sup>3</sup>
G. Filter pack, top -- 579.48 ft. MSL or -- 110 ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Ohio #7</u> <input type="checkbox"/>
H. Screen joint, top -- 577.48 ft. MSL or -- 112 ft.	b. Volume added <u>1</u> ft <sup>3</sup>
I. Well bottom -- 572.48 ft. MSL or -- 117 ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
J. Filter pack, bottom -- 572.48 ft. MSL or -- 117 ft.	10. Screen material: <u>PVC</u>
K. Borehole, bottom -- 571.48 ft. MSL or -- 118 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter -- 8.0 in.	b. Manufacturer <u>Monoflex</u>
M. O.D. well casing -- 2.4 in.	c. Slot size: <u>0.01</u> in.
N. I.D. well casing -- 1.9 in.	d. Slotted length: <u>5</u> ft.
	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Tyler [Signature] for Joe Larson Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

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Facility/Project Name WPL - Edgewater I43	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-305
Facility License, Permit or Monitoring No.	Local Grid Origin _____ (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. VY819 DNR Well ID No. _____
Facility ID	St. Plane 623435.13 ft. N, 2559945.85 ft. E. S/C/N	Date Well Installed 2 / 2 / 2017 m m d d y y y y
Type of Well Well Code 12 / PZ	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Kevin Duerst
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input checked="" type="checkbox"/>	Gov. Lot Number _____
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Badger State Drilling

<p>A. Protective pipe, top elevation --- 717.88 ft. MSL</p> <p>B. Well casing, top elevation --- 717.67 ft. MSL</p> <p>C. Land surface elevation --- 715.46 ft. MSL</p> <p>D. Surface seal, bottom --- 713.46 ft. MSL or --- 2 ft.</p>	<p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input checked="" type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____</p> <p>17. Source of water (attach analysis, if required): Site Supply Well</p>	<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: 6.0 in. a. Inside diameter: _____ b. Length: _____ c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: yes, bumper posts (3)</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 #5 R.W. Sidley Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input checked="" type="checkbox"/> 3 1 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 9.4 Ft<sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. 100 lbs Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name &amp; mesh size a. #7 R.W. Sidley <input type="checkbox"/> b. Volume added _____ 0.5 ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name &amp; mesh size a. #5 R.W. Sidley <input type="checkbox"/> b. Volume added _____ 1.5 ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: PVC a. Screen type: Factory cut <input type="checkbox"/> 1 1 Continuous slot <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>b. Manufacturer _____ Monoflex c. Slot size: _____ 0.01 in. d. Slotted length: _____ 5 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
<p>E. Bentonite seal, top --- 609.46 ft. MSL or --- 106 ft.</p> <p>F. Fine sand, top --- 603.46 ft. MSL or --- 112 ft.</p> <p>G. Filter pack, top --- 602.46 ft. MSL or --- 113 ft.</p> <p>H. Screen joint, top --- 600.46 ft. MSL or --- 115 ft.</p> <p>I. Well bottom --- 595.46 ft. MSL or --- 120 ft.</p> <p>J. Filter pack, bottom --- 594.46 ft. MSL or --- 121 ft.</p> <p>K. Borehole, bottom --- 594.46 ft. MSL or --- 121 ft.</p> <p>L. Borehole, diameter --- 6.25 in.</p> <p>M. O.D. well casing --- 2.4 in.</p> <p>N. I.D. well casing --- 1.9 in.</p>		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Phyllis* Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin  
Department of Natural Resources

Route to:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

MONITORING WELL CONSTRUCTION  
Form 4400-113A Rev. 7-98

Facility/Project Name WPL - 143 Alliant Energy Center	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-306
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input checked="" type="checkbox"/> Lat. 43° 41' 50.736" Long. -87° 45' 00.904" or	Wis. Unique Well No. DNR Well ID No. VS193
Facility ID 460021980	St. Plane 626576.4 ft. N, 2559142.7 ft. E. S/C/N	Date Well Installed 06 / 3-5 / 2024 m m d d y y y y
Type of Well Well Code 12 / PZ	Section Location of Waste/Source SW 1/4 of NE 1/4 of Sec. 8, T. 14 N, R. 23 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Adam Sweet
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Horizon Construction and Explorations

- A. Protective pipe, top elevation -- 693 -- 82 ft. MSL
- B. Well casing, top elevation -- 693 -- 61 ft. MSL
- C. Land surface elevation -- 690 -- 26 ft. MSL
- D. Surface seal, bottom -- 688 -- 6 ft. MSL or -- 1.7 ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

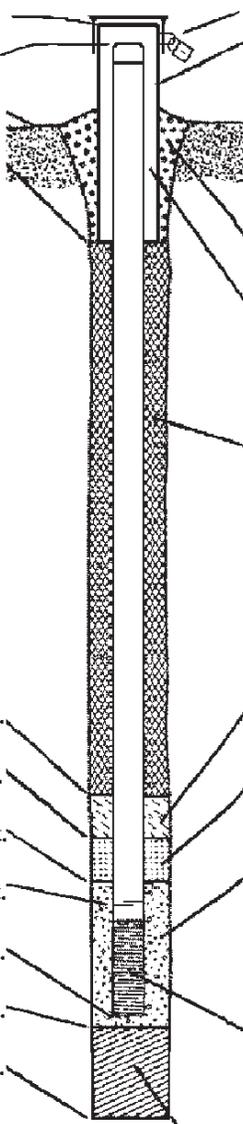
13. Sieve analysis performed?  Yes  No

14. Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
 Rotosonic  Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No  
 Describe --

17. Source of water (attach analysis, if required):  
 --PW Horizon Office, Fredonia WI



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: -- 4 -- in.
  - b. Length: -- 5 -- ft.
  - c. Material: Steel  0 4  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: Steel bumper posts
- 3. Surface seal: Bentonite  3 0  
Concrete  0 1  
Other
- 4. Material between well casing and protective pipe: Bentonite  3 0  
Red Flint #40 filter sand Other
- 5. Annular space seal: a. Granular/Chipped Bentonite  3 3  
b. Lbs/gal mud weight... Bentonite-sand slurry  3 5  
c. Lbs/gal mud weight... Bentonite slurry  3 1  
d. 8 % Bentonite... Bentonite-cement grout  5 0  
e. 20 Ft<sup>3</sup> volume added for any of the above  
f. How installed: Tremie  0 1  
Tremie pumped  0 2  
Gravity  0 8
- 6. Bentonite seal: a. Bentonite granules  3 3  
b.  1/4 in.  3/8 in.  1/2 in. Bentonite chips  3 2  
c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
a. Red Flint #15 filter sand   
b. Volume added 0.5 ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
a. Red Flint #40 filter sand   
b. Volume added 2.875 ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  2 3  
Flush threaded PVC schedule 80  2 4  
Other
- 10. Screen material: Schedule 80 PVC  
a. Screen type: Factory cut  1 1  
Continuous slot  0 1  
Other   
b. Manufacturer Johnson  
c. Slot size: 0.010 in.  
d. Slotted length: -- 5 -- ft.
- 11. Backfill material (below filter pack): None  1 4  
Other

- E. Bentonite seal, top -- 570.3 ft. MSL or -- 120.0 ft.
- F. Fine sand, top -- 564.5 ft. MSL or -- 125.75 ft.
- G. Filter pack, top -- 562.5 ft. MSL or -- 127.8 ft.
- H. Screen joint, top -- 560.3 ft. MSL or -- 130.0 ft.
- I. Well bottom -- 555.3 ft. MSL or -- 135.0 ft.
- J. Filter pack, bottom -- 553.3 ft. MSL or -- 137.0 ft.
- K. Borehole, bottom -- 553.3 ft. MSL or -- 137.0 ft.
- L. Borehole, diameter -- 6 in.
- M. O.D. well casing -- 2.4 in.
- N. I.D. well casing -- 1.9 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Bridget Dinnell Firm SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718-6751

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-301	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-864	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other

3. Time spent developing well \_\_\_\_\_ 190 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 132 9 ft.

5. Inside diameter of well \_\_\_\_\_ 2 0 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 18 2 gal.

7. Volume of water removed from well \_\_\_\_\_ 315 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 46 _____ 49 ft.	_____ 46 _____ 34 ft.
Date	b. _____ 02 / _____ 16 / _____ 2016	_____ 02 / _____ 16 / _____ 2016
Time	c. _____ 12 : 50 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	_____ 16 : 00 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
	Medium brown color	Medium brown color
	Very turbid	Slightly to moderately turbid

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-302	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-863	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other  \_\_\_\_\_

3. Time spent developing well \_\_\_\_\_ 145 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 143.8 ft.

5. Inside diameter of well \_\_\_\_\_ 2.0 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 19.3 gal.

7. Volume of water removed from well \_\_\_\_\_ 296 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 51 _____ 23 ft.	_____ 51 _____ 24 ft.
Date	b. <u>02</u> / <u>16</u> / <u>2016</u>	<u>02</u> / <u>16</u> / <u>2016</u>
	m m d d y y y y	m m d d y y y y
Time	c. _____ 11 : 55 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	_____ 14 : 20 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
	Medium brown color	Medium brown color
	Very turbid	Very slight turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Nate Last Name: Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party

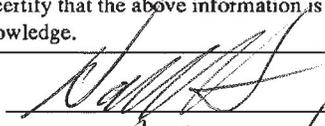
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-303	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-865	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other

3. Time spent developing well \_\_\_\_\_ 150 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 145.7 ft.

5. Inside diameter of well \_\_\_\_\_ 2.0 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 18.4 gal.

7. Volume of water removed from well \_\_\_\_\_ 250 gal.

8. Volume of water added (if any) \_\_\_\_\_ - gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

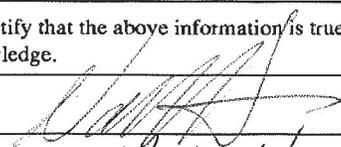
17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 67 _____ 86 ft.	_____ 67 _____ 86 ft.
Date	b. <u>02</u> / <u>16</u> / <u>2016</u> m m d d y y y y	<u>02</u> / <u>16</u> / <u>2016</u> m m d d y y y y
Time	c. <u>15</u> : <u>10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>17</u> : <u>40</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____ Medium brown color Very turbid _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____ Light brown color very slight turbidity _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm  
First Name: Nate Last Name: Harms  
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party  
First Name: Jim Last Name: Jakubiak  
Facility/Firm: WP&L Alliant Energy  
Street: 3739 Lakeshore Drive  
City/State/Zip: Sheboygan, WI 53082

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:   
Print Name: Nate Harms  
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name Alliant Energy I-43	County Name Sheboygan	Well Name MW-304	
Facility License, Permit or Monitoring Number	County Code 59	Wis. Unique Well Number VV-866	DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 145.7 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 18.4 gal.

7. Volume of water removed from well 240 gal.

8. Volume of water added (if any) -,- gal.

9. Source of water added \_\_\_\_\_

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>39.15</u> ft.	<u>39.39</u> ft.
Date	b. <u>02/16/2016</u> m m d d y y	<u>02/16/2016</u> m m d d y y
Time	c. <u>16:40</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>18:40</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>_____</u> inches	<u>_____</u> inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Medium brown color</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Water mostly clear</u> <u>Very slight turbidity</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm  
First Name: Nate Last Name: Harms  
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Name and Address of Facility Contact /Owner/Responsible Party

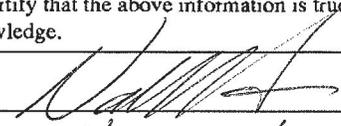
First Name: Jim Last Name: Jakubiak

Facility/Firm: WP&L Alliant Energy

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53082

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Nate Harms

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL-I-43	County Name Sheyboygan	Well Name MW-305	
Facility License, Permit or Monitoring Number 02853	County Code 59	Wis. Unique Well Number VY819	DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No

2. Well development method

- surged with bailer and bailed  4 1
- surged with bailer and pumped  6 1
- surged with block and bailed  4 2
- surged with block and pumped  6 2
- surged with block, bailed and pumped  7 0
- compressed air  2 0
- bailed only  1 0
- pumped only  5 1
- pumped slowly  5 0
- Other \_\_\_\_\_  \_\_\_\_\_

3. Time spent developing well \_\_\_\_\_ 162 min.

4. Depth of well (from top of well casing) \_\_\_\_\_ 122.97 ft.

5. Inside diameter of well \_\_\_\_\_ 1.9 in.

6. Volume of water in filter pack and well casing \_\_\_\_\_ 14.16 gal.

7. Volume of water removed from well \_\_\_\_\_ 135.0 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_ NA

10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 59 _____ 56 ft.	_____ 59 _____ 46 ft.
Date	b. <u>2</u> / <u>7</u> / <u>2017</u> m m d d y y y y	<u>2</u> / <u>7</u> / <u>2017</u> m m d d y y y y
Time	c. _____ 11 : 00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	_____ 2 : 05 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: Kyle		Last Name: Kramer
Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718		

17. Additional comments on development:  
Water clarity was clear before ten well volumes.

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Jim Last Name: Jakubiak

Facility/Firm: Wisconsin Power and Light

Street: 3739 Lakeshore Drive

City/State/Zip: Sheyboygan, WI 53081

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Name: Kyle Kramer

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name WPL Edgewater I-43 Ash Disposal Facility	County Name Sheboygan	Well Name MW-306	
Facility License, Permit or Monitoring Number 02853	County Code 60	Wis. Unique Well Number VS193	DNR Well ID Number _____

1. Can this well be purged dry?  Yes  No
2. Well development method
- surged with bailer and bailed  4 1
  - surged with bailer and pumped  6 1
  - surged with block and bailed  4 2
  - surged with block and pumped  6 2
  - surged with block, bailed and pumped  7 0
  - compressed air  2 0
  - bailed only  1 0
  - pumped only  5 1
  - pumped slowly  5 0
  - Other \_\_\_\_\_  \_\_\_\_\_
3. Time spent developing well \_\_\_\_\_ 90 min.
4. Depth of well (from top of well casing) \_\_\_\_\_ 134.9 ft.
5. Inside diameter of well \_\_\_\_\_ 1 9 in.
6. Volume of water in filter pack and well casing \_\_\_\_\_ 16 8 gal.
7. Volume of water removed from well \_\_\_\_\_ 20 gal.
8. Volume of water added (if any) \_\_\_\_\_ 0 gal.
9. Source of water added \_\_\_\_\_ N/A
10. Analysis performed on water added?  Yes  No  
(If yes, attach results)

- |  |                           |                          |
|--|---------------------------|--------------------------|
|  | <u>Before Development</u> | <u>After Development</u> |
|--|---------------------------|--------------------------|
11. Depth to Water (from top of well casing)
- a. \_\_\_\_\_ 40 \_\_\_\_\_ ft. \_\_\_\_\_ 133 \_\_\_\_\_ ft.
- Date
- b. 07 / 19 / 2024 07 / 19 / 2024  
m m d d y y y y m m d d y y y y
- Time
- c. \_\_\_\_\_ 9 : 00  a.m. \_\_\_\_\_ 11 : 30  a.m.  
 p.m.  p.m.
12. Sediment in well bottom \_\_\_\_\_ 0 \_\_\_\_\_ inches \_\_\_\_\_ 0 \_\_\_\_\_ inches
13. Water clarity
- |  |  |
|--|--|
| Clear <input type="checkbox"/> 1 0             | Clear <input type="checkbox"/> 2 0             |
| Turbid <input checked="" type="checkbox"/> 1 5 | Turbid <input checked="" type="checkbox"/> 2 5 |
| (Describe)                                     | (Describe)                                     |
| _____ Very turbid (milky)                      | _____ Less turbid                              |
| _____  | _____  |
| _____  | _____  |
| _____  | _____  |
- Fill in if drilling fluids were used and well is at solid waste facility:
14. Total suspended solids \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l
15. COD \_\_\_\_\_ mg/l \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Will Last Name: Ouimet

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Facility/Firm: Alliant Energy / WPL

Street: 3739 Lakeshore Drive

City/State/Zip: Sheboygan, WI 53081

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: William Ouimet

Print Name: Will Ouimet

Firm: SCS ENGINEERS, 2830 Dairy Drive, Madison, WI 53718

NOTE: See instructions for more information including a list of county codes and well type codes.



# Appendix C

## Laboratory Reports

## C1 October 2024 Detection Monitoring



October 24, 2024

Meghan Blodgett  
SCS ENGINEERS  
2830 Dairy Drive  
Madison, WI 53718

RE: Project: 2522069 EDGEWATER CCR (I-43)  
Pace Project No.: 40285267

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Matt Bizjack, Alliant Energy  
Natalie Burris, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Jenny Coughlin, Alliant Energy  
Tom Karwoski, SCS ENGINEERS  
Ryan Matzuk, SCS Engineers  
Jeff Maxted, ALLIANT ENERGY



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 2522069 EDGEWATER CCR (I-43)  
Pace Project No.: 40285267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40285267001	MW-301	Water	10/02/24 13:25	10/05/24 08:55
40285267002	MW-302	Water	10/02/24 14:35	10/05/24 08:55
40285267003	MW-303	Water	10/02/24 12:20	10/05/24 08:55
40285267004	MW-304	Water	10/02/24 11:30	10/05/24 08:55
40285267005	MW-305	Water	10/02/24 10:30	10/05/24 08:55
40285267006	FIELD BLANK	Water	10/02/24 13:55	10/05/24 08:55

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### SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285267001	MW-301	EPA 6010D	SIS	5
		EPA 6020B	KXS	2
			AG1	7
			LMB	1
		SM 2540C	LMB	1
		EPA 9040	HML	1
		EPA 300.0	HMB	3
EPA 310.2	MT	1		
40285267002	MW-302	EPA 353.2	MT	1
		EPA 6010D	SIS	5
			KXS	2
		EPA 6020B	AG1	7
			LMB	1
			HML	1
		SM 2540C	LMB	1
EPA 9040	HML	1		
EPA 300.0	HMB	3		
40285267003	MW-303	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
			KXS	2
		EPA 6020B	AG1	7
			LMB	1
			HML	1
SM 2540C	LMB	1		
EPA 9040	HML	1		
EPA 300.0	HMB	3		
40285267004	MW-304	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
			KXS	2
		EPA 6020B	AG1	7
			LMB	1
			HML	1
SM 2540C	LMB	1		
EPA 9040	HML	1		
EPA 300.0	HMB	3		
40285267005	MW-305	EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
			KXS	2
		EPA 6020B	AG1	7
			LMB	1
			HML	1
SM 2540C	LMB	1		
EPA 9040	HML	1		

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### SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40285267006	FIELD BLANK	EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1
		EPA 6010D	SIS	5
		EPA 6020B	KXS	2
		SM 2540C	LMB	1
		EPA 9040	HML	1
		EPA 300.0	HMB	3
		EPA 310.2	MT	1
		EPA 353.2	MT	1

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: MW-301**      **Lab ID: 40285267001**      Collected: 10/02/24 13:25      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:28	7440-50-8	
Manganese	14.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:28	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:28	7440-22-4	
Total Hardness by 2340B	158	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:28		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:28	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	130	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:01	7440-42-8	
Calcium	24300	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:01	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.72	Std. Units			1		10/02/24 13:25		
Field Specific Conductance	351	umhos/cm			1		10/02/24 13:25		
Oxygen, Dissolved	0.78	mg/L			1		10/02/24 13:25	7782-44-7	
REDOX	665.4	mV			1		10/02/24 13:25		
Turbidity	22.40	NTU			1		10/02/24 13:25		
Static Water Level	650.21	feet			1		10/02/24 13:25		
Temperature, Water (C)	12.0	deg C			1		10/02/24 13:25		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	200	mg/L	20.0	8.7	1		10/08/24 18:03		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		10/16/24 17:30		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.3	mg/L	2.0	0.59	1		10/18/24 20:51	16887-00-6	
Fluoride	0.65	mg/L	0.32	0.095	1		10/18/24 20:51	16984-48-8	
Sulfate	10.3	mg/L	2.0	0.44	1		10/18/24 20:51	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	198	mg/L	25.0	7.4	1		10/08/24 14:01		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:52		

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: MW-302**      **Lab ID: 40285267002**      Collected: 10/02/24 14:35      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:30	7440-50-8	
Manganese	14.4	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:30	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:30	7440-22-4	
Total Hardness by 2340B	181	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:30		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:30	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	126	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:05	7440-42-8	
Calcium	28200	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:05	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.75	Std. Units			1		10/02/24 14:35		
Field Specific Conductance	401	umhos/cm			1		10/02/24 14:35		
Oxygen, Dissolved	1.25	mg/L			1		10/02/24 14:35	7782-44-7	
REDOX	631.4	mV			1		10/02/24 14:35		
Turbidity	11.49	NTU			1		10/02/24 14:35		
Static Water Level	650.48	feet			1		10/02/24 14:35		
Temperature, Water (C)	13.1	deg C			1		10/02/24 14:35		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	192	mg/L	20.0	8.7	1		10/08/24 18:03		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		10/16/24 17:31		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	4.0	mg/L	2.0	0.59	1		10/18/24 21:01	16887-00-6	
Fluoride	0.75	mg/L	0.32	0.095	1		10/18/24 21:01	16984-48-8	
Sulfate	19.4	mg/L	2.0	0.44	1		10/18/24 21:01	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	213	mg/L	25.0	7.4	1		10/08/24 14:02		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:53		

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: MW-303**      **Lab ID: 40285267003**      Collected: 10/02/24 12:20      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:32	7440-50-8	
Manganese	3.5J	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:32	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:32	7440-22-4	
Total Hardness by 2340B	195	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:32		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:32	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	83.0	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:18	7440-42-8	
Calcium	28700	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:18	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.72	Std. Units			1		10/02/24 12:20		
Field Specific Conductance	453	umhos/cm			1		10/02/24 12:20		
Oxygen, Dissolved	2.28	mg/L			1		10/02/24 12:20	7782-44-7	
REDOX	751.0	mV			1		10/02/24 12:20		
Turbidity	0.27	NTU			1		10/02/24 12:20		
Static Water Level	650.15	feet			1		10/02/24 12:20		
Temperature, Water (C)	12.3	deg C			1		10/02/24 12:20		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	266	mg/L	20.0	8.7	1		10/08/24 18:04		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.010	1		10/16/24 17:38		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.8	mg/L	2.0	0.59	1		10/18/24 21:12	16887-00-6	
Fluoride	0.63	mg/L	0.32	0.095	1		10/18/24 21:12	16984-48-8	
Sulfate	24.7	mg/L	2.0	0.44	1		10/18/24 21:12	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	240	mg/L	25.0	7.4	1		10/08/24 14:03		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	0.12J	mg/L	0.25	0.059	1		10/17/24 07:54		

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: MW-304**      **Lab ID: 40285267004**      Collected: 10/02/24 11:30      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:34	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:34	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:34	7440-22-4	
Total Hardness by 2340B	196	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:34		
Zinc	15.7J	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:34	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	89.4	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:22	7440-42-8	
Calcium	21400	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:22	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.85	Std. Units			1		10/02/24 11:30		
Field Specific Conductance	406	umhos/cm			1		10/02/24 11:30		
Oxygen, Dissolved	1.22	mg/L			1		10/02/24 11:30	7782-44-7	
REDOX	623.4	mV			1		10/02/24 11:30		
Turbidity	20.40	NTU			1		10/02/24 11:30		
Static Water Level	652.01	feet			1		10/02/24 11:30		
Temperature, Water (C)	10.7	deg C			1		10/02/24 11:30		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	226	mg/L	20.0	8.7	1		10/08/24 18:04		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.4	Std. Units	0.10	0.010	1		10/16/24 17:41		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	2.7	mg/L	2.0	0.59	1		10/18/24 21:23	16887-00-6	
Fluoride	0.49	mg/L	0.32	0.095	1		10/18/24 21:23	16984-48-8	
Sulfate	17.4	mg/L	2.0	0.44	1		10/18/24 21:23	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	216	mg/L	25.0	7.4	1		10/08/24 14:04		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:54		

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: MW-305**      **Lab ID: 40285267005**      Collected: 10/02/24 10:30      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:36	7440-50-8	
Manganese	25.3	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:36	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:36	7440-22-4	
Total Hardness by 2340B	508	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:36		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:36	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	61.3	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 13:26	7440-42-8	
Calcium	89600	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 13:26	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	7.33	Std. Units			1		10/02/24 10:30		
Field Specific Conductance	879	umhos/cm			1		10/02/24 10:30		
Oxygen, Dissolved	2.74	mg/L			1		10/02/24 10:30	7782-44-7	
REDOX	575.1	mV			1		10/02/24 10:30		
Turbidity	3.09	NTU			1		10/02/24 10:30		
Static Water Level	656.60	feet			1		10/02/24 10:30		
Temperature, Water (C)	13.9	deg C			1		10/02/24 10:30		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	504	mg/L	20.0	8.7	1		10/08/24 18:05		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		10/16/24 17:46		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	31.1	mg/L	2.0	0.59	1		10/18/24 21:34	16887-00-6	M0
Fluoride	0.78	mg/L	0.32	0.095	1		10/18/24 21:34	16984-48-8	
Sulfate	116	mg/L	20.0	4.4	10		10/21/24 12:47	14808-79-8	M0
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	363	mg/L	25.0	7.4	1		10/08/24 14:06		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:55		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

**Sample: FIELD BLANK**      **Lab ID: 40285267006**      Collected: 10/02/24 13:55      Received: 10/05/24 08:55      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	10/08/24 08:01	10/08/24 20:38	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	10/08/24 08:01	10/08/24 20:38	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	10/08/24 08:01	10/08/24 20:38	7440-22-4	
Total Hardness by 2340B	<1.0	mg/L	5.4	1.0	1	10/08/24 08:01	10/08/24 20:38		
Zinc	<11.6	ug/L	40.0	11.6	1	10/08/24 08:01	10/08/24 20:38	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	<3.0	ug/L	10.0	3.0	1	10/08/24 08:28	10/14/24 14:08	7440-42-8	
Calcium	<76.2	ug/L	254	76.2	1	10/08/24 08:28	10/14/24 14:08	7440-70-2	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		10/15/24 17:21		H1
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.9	Std. Units	0.10	0.010	1		10/16/24 17:53		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<0.59	mg/L	2.0	0.59	1		10/23/24 00:44	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		10/23/24 00:44	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		10/23/24 00:44	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		10/08/24 14:10		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2									
Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		10/17/24 07:56		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	486501	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786292 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	10/08/24 19:40	
Manganese	ug/L	<1.5	5.0	10/08/24 19:40	
Silver	ug/L	<3.2	10.0	10/08/24 19:40	
Total Hardness by 2340B	mg/L	<1.0	5.4	10/08/24 19:40	
Zinc	ug/L	<11.6	40.0	10/08/24 19:40	

LABORATORY CONTROL SAMPLE: 2786293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	263	105	80-120	
Manganese	ug/L	250	263	105	80-120	
Silver	ug/L	125	128	102	80-120	
Total Hardness by 2340B	mg/L		67.5			
Zinc	ug/L	250	254	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786294 2786295

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40285189001 Result	Spike Conc.	Spike Conc.	Conc.								
Copper	ug/L	<3.4	250	250	250	264	261	105	104	75-125	1	20	
Manganese	ug/L	239	250	250	250	503	496	106	103	75-125	1	20	
Silver	ug/L	<3.2	125	125	125	130	129	104	103	75-125	1	20	
Total Hardness by 2340B	mg/L	227				297	291				2	20	
Zinc	ug/L	48.5	250	250	250	258	250	84	81	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 486504 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3010A Analysis Description: 6020B MET  
 Laboratory: Pace Analytical Services - Green Bay  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786304 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	10/14/24 12:27	
Calcium	ug/L	<76.2	254	10/14/24 12:27	

LABORATORY CONTROL SAMPLE: 2786305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	213	85	80-120	
Calcium	ug/L	10000	9990	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786306 2786307

Parameter	Units	40285156001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	18.9	250	250	240	245	89	90	75-125	2	20	
Calcium	ug/L	22700	10000	10000	31800	32500	91	98	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	486616	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40285267001, 40285267002, 40285267003, 40285267004, 40285267005		

METHOD BLANK: 2786836 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/08/24 17:59	

LABORATORY CONTROL SAMPLE: 2786837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	582	506	87	80-120	

SAMPLE DUPLICATE: 2786842

Parameter	Units	40285126001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	498	472	5	10	

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### QUALITY CONTROL DATA

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 487239

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267006

METHOD BLANK: 2790274

Matrix: Water

Associated Lab Samples: 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/15/24 17:20	

LABORATORY CONTROL SAMPLE: 2790275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	582	548	94	80-120	

SAMPLE DUPLICATE: 2790277

Parameter	Units	40285651003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	434	414	5	10	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40285267

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QC Batch: 487364 Analysis Method: EPA 9040  
 QC Batch Method: EPA 9040 Analysis Description: 9040 pH  
 Laboratory: Pace Analytical Services - Green Bay  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

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SAMPLE DUPLICATE: 2790786

Parameter	Units	40285189001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	20	H6

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	487590	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

METHOD BLANK: 2792311 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	10/18/24 16:18	
Fluoride	mg/L	<0.095	0.32	10/18/24 16:18	
Sulfate	mg/L	<0.44	2.0	10/18/24 16:18	

LABORATORY CONTROL SAMPLE: 2792312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	
Fluoride	mg/L	2	2.0	102	90-110	
Sulfate	mg/L	20	21.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792313 2792314

Parameter	Units	40285193003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	5.4	20	20	27.2	27.6	109	111	90-110	1	15	M0	
Fluoride	mg/L	<0.095	2	2	2.1	2.1	105	106	90-110	1	15		
Sulfate	mg/L	57.5	100	100	167	157	109	100	90-110	6	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792315 2792316

Parameter	Units	40285267005		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	31.1	20	20	53.0	53.4	109	112	90-110	1	15	M0	
Fluoride	mg/L	0.78	2	2	2.8	2.9	103	106	90-110	2	15		
Sulfate	mg/L	116	200	200	377	345	130	114	90-110	9	15	M0	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch: 487594

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267006

METHOD BLANK: 2792333

Matrix: Water

Associated Lab Samples: 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	10/23/24 00:23	
Fluoride	mg/L	<0.095	0.32	10/23/24 00:23	
Sulfate	mg/L	<0.44	2.0	10/23/24 00:23	

LABORATORY CONTROL SAMPLE: 2792334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	105	90-110	
Fluoride	mg/L	2	2.0	102	90-110	
Sulfate	mg/L	20	21.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2792335 2792336

Parameter	Units	40285271001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	19.5	20	20	20	41.3	41.4	109	109	109	90-110	0	15	
Fluoride	mg/L	<0.095	2	2	2	2.1	2.1	103	103	103	90-110	0	15	
Sulfate	mg/L	15.4	20	20	20	37.1	37.2	109	109	109	90-110	0	15	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	486611	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2786751 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	10/08/24 13:52	

LABORATORY CONTROL SAMPLE: 2786752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	103	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786753 2786754

Parameter	Units	40285201003		2786753		2786754		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	354	100	100	100	453	456	99	102	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2786755 2786756

Parameter	Units	40285280024		2786755		2786756		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Alkalinity, Total as CaCO3	mg/L	510	200	200	200	701	697	96	93	90-110	1	20

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

QC Batch:	487458	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

METHOD BLANK: 2791499 Matrix: Water  
 Associated Lab Samples: 40285267001, 40285267002, 40285267003, 40285267004, 40285267005, 40285267006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	10/17/24 08:03	

LABORATORY CONTROL SAMPLE: 2791500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2791501 2791502

Parameter	Units	2791501		2791502		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Nitrogen, NO2 plus NO3	mg/L	2.3	2.5	4.5	4.6	90	93	90-110	1	20	

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## QUALIFIERS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

H1 Analysis conducted outside the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40285267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285267001	MW-301	EPA 3010A	486501	EPA 6010D	486632
40285267002	MW-302	EPA 3010A	486501	EPA 6010D	486632
40285267003	MW-303	EPA 3010A	486501	EPA 6010D	486632
40285267004	MW-304	EPA 3010A	486501	EPA 6010D	486632
40285267005	MW-305	EPA 3010A	486501	EPA 6010D	486632
40285267006	FIELD BLANK	EPA 3010A	486501	EPA 6010D	486632
40285267001	MW-301	EPA 3010A	486504	EPA 6020B	486648
40285267002	MW-302	EPA 3010A	486504	EPA 6020B	486648
40285267003	MW-303	EPA 3010A	486504	EPA 6020B	486648
40285267004	MW-304	EPA 3010A	486504	EPA 6020B	486648
40285267005	MW-305	EPA 3010A	486504	EPA 6020B	486648
40285267006	FIELD BLANK	EPA 3010A	486504	EPA 6020B	486648
40285267001	MW-301				
40285267002	MW-302				
40285267003	MW-303				
40285267004	MW-304				
40285267005	MW-305				
40285267001	MW-301	SM 2540C	486616		
40285267002	MW-302	SM 2540C	486616		
40285267003	MW-303	SM 2540C	486616		
40285267004	MW-304	SM 2540C	486616		
40285267005	MW-305	SM 2540C	486616		
40285267006	FIELD BLANK	SM 2540C	487239		
40285267001	MW-301	EPA 9040	487364		
40285267002	MW-302	EPA 9040	487364		
40285267003	MW-303	EPA 9040	487364		
40285267004	MW-304	EPA 9040	487364		
40285267005	MW-305	EPA 9040	487364		
40285267006	FIELD BLANK	EPA 9040	487364		
40285267001	MW-301	EPA 300.0	487590		
40285267002	MW-302	EPA 300.0	487590		
40285267003	MW-303	EPA 300.0	487590		
40285267004	MW-304	EPA 300.0	487590		
40285267005	MW-305	EPA 300.0	487590		
40285267006	FIELD BLANK	EPA 300.0	487594		
40285267001	MW-301	EPA 310.2	486611		
40285267002	MW-302	EPA 310.2	486611		
40285267003	MW-303	EPA 310.2	486611		
40285267004	MW-304	EPA 310.2	486611		
40285267005	MW-305	EPA 310.2	486611		
40285267006	FIELD BLANK	EPA 310.2	486611		
40285267001	MW-301	EPA 353.2	487458		
40285267002	MW-302	EPA 353.2	487458		
40285267003	MW-303	EPA 353.2	487458		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)  
Pace Project No.: 40285267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40285267004	MW-304	EPA 353.2	487458		
40285267005	MW-305	EPA 353.2	487458		
40285267006	FIELD BLANK	EPA 353.2	487458		

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**Sample Condition Upon Receipt Form (SCUR)**

Project #:

**WO# : 40285267**



40285267

**Client Name:** SCS Engineers

**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_

**Tracking #:** \_\_\_\_\_

**Custody Seal on Cooler/Box Present:**  yes  no Seals intact:  yes  no

**Custody Seal on Samples Present:**  yes  no Seals intact:  yes  no

**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other

**Thermometer Used** SR-141 **Type of Ice:**  Wet  Blue Dry  None  Meltwater Only

**Cooler Temperature** Uncorr: 1.0 /Corr: 1.0

**Temp Blank Present:**  yes  no

**Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
 Date: 10/5/24 Initials: GF  
 Labeled By Initials: MRS

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>preserve</u> <u>10/5/24 GF</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
<b>Short Hold Time Analysis (&lt;72hr):</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	8.
For Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
Trip Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

## C2 April 2025 Detection Monitoring and MW-306 Background Monitoring



May 28, 2025

Meghan Blodgett  
SCS ENGINEERS  
2830 Dairy Drive  
Madison, WI 53718

RE: Project: 2522069 EDGEWATER CCR (I-43)  
Pace Project No.: 40294106

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Greensburg

Report revised to include select test results. This replaces the report generated on May 16, 2025.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Matt Bizjack, Alliant Energy  
Natalie Burris, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Jenny Coughlin, Alliant Energy  
Tom Karwoski, SCS ENGINEERS  
Ryan Matzuk, SCS Engineers  
Jeff Maxted, ALLIANT ENERGY



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

#### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

#### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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### SAMPLE SUMMARY

Project: 2522069 EDGEWATER CCR (I-43)  
Pace Project No.: 40294106

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40294106001	MW-301	Water	04/23/25 09:25	04/24/25 08:15
40294106002	MW-302	Water	04/21/25 15:40	04/24/25 08:15
40294106003	MW-303	Water	04/21/25 12:05	04/24/25 08:15
40294106004	MW-304	Water	04/21/25 10:15	04/24/25 08:15
40294106005	MW-305	Water	04/21/25 11:20	04/24/25 08:15
40294106006	MW-306	Water	04/21/25 13:20	04/24/25 08:15
40294106007	FIELD BLANK	Water	04/21/25 15:50	04/24/25 08:15

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**SAMPLE ANALYTE COUNT**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40294106001	MW-301	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G
40294106002	MW-302	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G
40294106003	MW-303	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1, TXW	3	PASI-G
40294106004	MW-304	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
40294106005	MW-305	EPA 6020B	KXS	2	PASI-G
			AG1	7	PASI-G
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
40294106006	MW-306	EPA 6020B	KXS	14	PASI-G
			EPA 7470	AF	1
			AG1	6	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G
40294106007	FIELD BLANK	EPA 6020B	KXS	14	PASI-G
		EPA 7470	AF	1	PASI-G
		EPA 903.1	LL1	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	TXW	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

PASI-PA = Pace Analytical Services - Greensburg

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-301**      **Lab ID: 40294106001**      Collected: 04/23/25 09:25      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Boron	<b>117</b>	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:09	7440-42-8	
Calcium	<b>23300</b>	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:09	7440-70-2	
<b>Field Data</b>		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	<b>8.08</b>	Std. Units			1		04/23/25 09:25		
Field Specific Conductance	<b>369</b>	umhos/cm			1		04/23/25 09:25		
Oxygen, Dissolved	<b>0.97</b>	mg/L			1		04/23/25 09:25	7782-44-7	
REDOX	<b>95</b>	mV			1		04/23/25 09:25		
Turbidity	<b>20.6</b>	NTU			1		04/23/25 09:25		
Static Water Level	<b>653.23</b>	feet			1		04/23/25 09:25		
Temperature, Water (C)	<b>9.8</b>	deg C			1		04/23/25 09:25		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Green Bay							
Total Dissolved Solids	<b>190</b>	mg/L	20.0	8.7	1		04/29/25 16:32		
<b>9040 pH</b>		Analytical Method: EPA 9040 Pace Analytical Services - Green Bay							
pH at 25 Degrees C	<b>8.3</b>	Std. Units	0.10	0.010	1		04/24/25 16:34		H6
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	<b>3.0</b>	mg/L	2.0	0.59	1		05/04/25 11:51	16887-00-6	
Fluoride	<b>0.69</b>	mg/L	0.32	0.095	1		05/04/25 11:51	16984-48-8	
Sulfate	<b>10.5</b>	mg/L	2.0	0.44	1		05/04/25 11:51	14808-79-8	

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-302**      **Lab ID: 40294106002**      Collected: 04/21/25 15:40      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B    Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Boron	120	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:14	7440-42-8	
Calcium	25500	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:14	7440-70-2	
<b>Field Data</b>		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	8.09	Std. Units			1		04/21/25 15:40		
Field Specific Conductance	444	umhos/cm			1		04/21/25 15:40		
Oxygen, Dissolved	1.07	mg/L			1		04/21/25 15:40	7782-44-7	
REDOX	-24	mV			1		04/21/25 15:40		
Turbidity	7.05	NTU			1		04/21/25 15:40		
Static Water Level	653.24	feet			1		04/21/25 15:40		
Temperature, Water (C)	9.4	deg C			1		04/21/25 15:40		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Green Bay							
Total Dissolved Solids	280	mg/L	20.0	8.7	1		04/24/25 14:57		
<b>9040 pH</b>		Analytical Method: EPA 9040 Pace Analytical Services - Green Bay							
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		04/24/25 16:37		H6
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	5.3	mg/L	2.0	0.59	1		05/04/25 12:02	16887-00-6	
Fluoride	0.79	mg/L	0.32	0.095	1		05/04/25 12:02	16984-48-8	
Sulfate	32.4	mg/L	2.0	0.44	1		05/04/25 12:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-303**      **Lab ID: 40294106003**      Collected: 04/21/25 12:05      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	78.6	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:18	7440-42-8	
Calcium	26400	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:18	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.04	Std. Units			1		04/21/25 12:05		
Field Specific Conductance	456	umhos/cm			1		04/21/25 12:05		
Oxygen, Dissolved	2.26	mg/L			1		04/21/25 12:05	7782-44-7	
REDOX	28	mV			1		04/21/25 12:05		
Turbidity	1.08	NTU			1		04/21/25 12:05		
Static Water Level	653.49	feet			1		04/21/25 12:05		
Temperature, Water (C)	9.4	deg C			1		04/21/25 12:05		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	254	mg/L	20.0	8.7	1		04/24/25 14:57		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.2	Std. Units	0.10	0.010	1		04/24/25 16:41		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	3.7	mg/L	2.0	0.59	1		05/06/25 14:50	16887-00-6	
Fluoride	0.66	mg/L	0.63	0.19	2		05/04/25 12:24	16984-48-8	
Sulfate	23.0	mg/L	2.0	0.44	1		05/06/25 14:50	14808-79-8	

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-304**      **Lab ID: 40294106004**      Collected: 04/21/25 10:15      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Boron	85.3	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:23	7440-42-8	
Calcium	22800	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:23	7440-70-2	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.08	Std. Units			1		04/21/25 10:15		
Field Specific Conductance	412	umhos/cm			1		04/21/25 10:15		
Oxygen, Dissolved	0.92	mg/L			1		04/21/25 10:15	7782-44-7	
REDOX	-53	mV			1		04/21/25 10:15		
Turbidity	5.46	NTU			1		04/21/25 10:15		
Static Water Level	655.04	feet			1		04/21/25 10:15		
Temperature, Water (C)	9.3	deg C			1		04/21/25 10:15		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	218	mg/L	20.0	8.7	1		04/24/25 14:57		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.3	Std. Units	0.10	0.010	1		04/24/25 16:51		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	2.7	mg/L	2.0	0.59	1		05/05/25 10:24	16887-00-6	
Fluoride	0.45	mg/L	0.32	0.095	1		05/05/25 10:24	16984-48-8	
Sulfate	16.7	mg/L	2.0	0.44	1		05/05/25 10:24	14808-79-8	

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-305**      **Lab ID: 40294106005**      Collected: 04/21/25 11:20      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Green Bay							
Boron	<b>57.4</b>	ug/L	10.0	3.0	1	04/25/25 07:50	04/30/25 01:27	7440-42-8	
Calcium	<b>81500</b>	ug/L	254	76.2	1	04/25/25 07:50	04/30/25 01:27	7440-70-2	
<b>Field Data</b>		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	<b>7.61</b>	Std. Units			1		04/21/25 11:20		
Field Specific Conductance	<b>936</b>	umhos/cm			1		04/21/25 11:20		
Oxygen, Dissolved	<b>0.99</b>	mg/L			1		04/21/25 11:20	7782-44-7	
REDOX	<b>-75</b>	mV			1		04/21/25 11:20		
Turbidity	<b>3.20</b>	NTU			1		04/21/25 11:20		
Static Water Level	<b>658.61</b>	feet			1		04/21/25 11:20		
Temperature, Water (C)	<b>9.2</b>	deg C			1		04/21/25 11:20		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C Pace Analytical Services - Green Bay							
Total Dissolved Solids	<b>590</b>	mg/L	20.0	8.7	1		04/24/25 14:57		
<b>9040 pH</b>		Analytical Method: EPA 9040 Pace Analytical Services - Green Bay							
pH at 25 Degrees C	<b>8.2</b>	Std. Units	0.10	0.010	1		04/24/25 16:54		H6
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	<b>32.5</b>	mg/L	4.0	1.2	2		05/04/25 13:51	16887-00-6	
Fluoride	<b>0.73</b>	mg/L	0.63	0.19	2		05/04/25 13:51	16984-48-8	
Sulfate	<b>123</b>	mg/L	20.0	4.4	10		05/04/25 13:40	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-306**      **Lab ID: 40294106006**      Collected: 04/21/25 13:20      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	3.5J	ug/L	5.0	0.75	5	04/25/25 07:50	04/29/25 19:21	7440-36-0	D3
Arsenic	40.3	ug/L	5.0	1.4	5	04/25/25 07:50	04/29/25 19:21	7440-38-2	
Barium	1050	ug/L	11.6	3.5	5	04/25/25 07:50	04/29/25 19:21	7440-39-3	
Beryllium	9.0	ug/L	5.0	1.2	5	04/25/25 07:50	04/29/25 19:21	7440-41-7	
Boron	534	ug/L	50.0	15.2	5	04/25/25 07:50	04/29/25 19:21	7440-42-8	
Cadmium	2.1J	ug/L	5.0	0.76	5	04/25/25 07:50	04/29/25 19:21	7440-43-9	D3
Calcium	709000	ug/L	1270	381	5	04/25/25 07:50	04/29/25 19:21	7440-70-2	
Chromium	501	ug/L	17.0	5.1	5	04/25/25 07:50	04/29/25 19:21	7440-47-3	
Cobalt	81.0	ug/L	5.0	0.58	5	04/25/25 07:50	04/29/25 19:21	7440-48-4	
Lead	97.5	ug/L	5.0	1.2	5	04/25/25 07:50	04/29/25 19:21	7439-92-1	
Lithium	309	ug/L	5.0	1.1	5	04/25/25 07:50	04/29/25 19:21	7439-93-2	
Molybdenum	114	ug/L	7.4	2.2	5	04/25/25 07:50	04/29/25 19:21	7439-98-7	
Selenium	<3.2	ug/L	10.6	3.2	10	04/25/25 07:50	04/30/25 10:17	7782-49-2	D3
Thallium	1.8J	ug/L	5.0	0.70	5	04/25/25 07:50	04/29/25 19:21	7440-28-0	D3
<b>7470 Mercury</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	0.17J	ug/L	0.20	0.066	1	04/30/25 12:15	05/01/25 13:13	7439-97-6	
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.69	Std. Units			1		04/21/25 13:20		
Field Specific Conductance	622	umhos/cm			1		04/21/25 13:20		
Oxygen, Dissolved	0.19	mg/L			1		04/21/25 13:20	7782-44-7	
REDOX	-155	mV			1		04/21/25 13:20		
Static Water Level	656.73	feet			1		04/21/25 13:20		
Temperature, Water (C)	10.0	deg C			1		04/21/25 13:20		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	820	mg/L	100	43.4	1		04/24/25 14:57		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		04/24/25 17:00		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	14.6J	mg/L	40.0	11.8	20		05/04/25 14:02	16887-00-6	D3
Fluoride	<1.9	mg/L	6.3	1.9	20		05/04/25 14:02	16984-48-8	D3
Sulfate	124	mg/L	40.0	8.9	20		05/04/25 14:02	14808-79-8	

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**ANALYTICAL RESULTS**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: FIELD BLANK**      **Lab ID: 40294106007**      Collected: 04/21/25 15:50      Received: 04/24/25 08:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	<0.15	ug/L	1.0	0.15	1	04/25/25 07:50	04/29/25 19:25	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	04/25/25 07:50	04/29/25 19:25	7440-38-2	
Barium	<0.70	ug/L	2.3	0.70	1	04/25/25 07:50	04/29/25 19:25	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	04/25/25 07:50	04/29/25 19:25	7440-41-7	
Boron	<3.0	ug/L	10.0	3.0	1	04/25/25 07:50	04/29/25 19:25	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	04/25/25 07:50	04/29/25 19:25	7440-43-9	
Calcium	<76.2	ug/L	254	76.2	1	04/25/25 07:50	04/29/25 19:25	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	04/25/25 07:50	04/29/25 19:25	7440-47-3	
Cobalt	<0.12	ug/L	1.0	0.12	1	04/25/25 07:50	04/29/25 19:25	7440-48-4	
Lead	<0.24	ug/L	1.0	0.24	1	04/25/25 07:50	04/29/25 19:25	7439-92-1	
Lithium	<0.22	ug/L	1.0	0.22	1	04/25/25 07:50	04/29/25 19:25	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	04/25/25 07:50	04/29/25 19:25	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	04/25/25 07:50	04/29/25 19:25	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	04/25/25 07:50	04/29/25 19:25	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	04/30/25 12:15	05/01/25 13:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	<b>16.0J</b>	mg/L	20.0	8.7	1		04/24/25 14:58		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	<b>7.1</b>	Std. Units	0.10	0.010	1		04/24/25 17:13		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<0.59	mg/L	2.0	0.59	1		05/04/25 14:13	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		05/04/25 14:13	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		05/04/25 14:13	14808-79-8	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 503281

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 2873637

Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	05/01/25 12:15	

LABORATORY CONTROL SAMPLE: 2873638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2873639 2873640

Parameter	Units	40294298007		2873640		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	ug/L	<0.066	5	5	4.8	4.8	96	95	85-115	2	20	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch:	502897	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005

METHOD BLANK: 2871558 Matrix: Water  
 Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	<3.0	10.0	04/29/25 22:58	
Calcium	ug/L	<76.2	254	04/29/25 22:58	

LABORATORY CONTROL SAMPLE: 2871559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	250	230	92	80-120	
Calcium	ug/L	10000	9450	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871560 2871561

Parameter	Units	40294083001		2871560		2871561		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Boron	ug/L	379	250	250	618	611	96	93	75-125	1	20
Calcium	ug/L	66700	10000	10000	76100	75000	94	82	75-125	1	20

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 502899

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 2871567

Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	04/29/25 17:06	
Arsenic	ug/L	<0.28	1.0	04/29/25 17:06	
Barium	ug/L	<0.70	2.3	04/29/25 17:06	
Beryllium	ug/L	<0.25	1.0	04/29/25 17:06	
Boron	ug/L	<3.0	10.0	04/29/25 17:06	
Cadmium	ug/L	<0.15	1.0	04/29/25 17:06	
Calcium	ug/L	<76.2	254	04/29/25 17:06	
Chromium	ug/L	<1.0	3.4	04/29/25 17:06	
Cobalt	ug/L	<0.12	1.0	04/29/25 17:06	
Lead	ug/L	<0.24	1.0	04/29/25 17:06	
Lithium	ug/L	<0.22	1.0	04/29/25 17:06	
Molybdenum	ug/L	<0.44	1.5	04/29/25 17:06	
Selenium	ug/L	<0.32	1.1	04/29/25 17:06	
Thallium	ug/L	<0.14	1.0	04/29/25 17:06	

LABORATORY CONTROL SAMPLE: 2871568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	245	98	80-120	
Arsenic	ug/L	250	248	99	80-120	
Barium	ug/L	250	243	97	80-120	
Beryllium	ug/L	250	262	105	80-120	
Boron	ug/L	250	239	96	80-120	
Cadmium	ug/L	250	251	100	80-120	
Calcium	ug/L	10000	9560	96	80-120	
Chromium	ug/L	250	252	101	80-120	
Cobalt	ug/L	250	244	98	80-120	
Lead	ug/L	250	246	98	80-120	
Lithium	ug/L	250	255	102	80-120	
Molybdenum	ug/L	250	247	99	80-120	
Selenium	ug/L	250	253	101	80-120	
Thallium	ug/L	250	243	97	80-120	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Parameter	Units	2871569		2871570		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40294085001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	ug/L	0.21J	250	250	251	246	100	98	75-125	2	20		
Arsenic	ug/L	<0.28	250	250	255	251	102	101	75-125	1	20		
Barium	ug/L	25.5	250	250	274	269	99	98	75-125	2	20		
Beryllium	ug/L	<0.25	250	250	258	258	103	103	75-125	0	20		
Boron	ug/L	540	250	250	783	772	98	93	75-125	1	20		
Cadmium	ug/L	<0.15	250	250	256	249	102	100	75-125	3	20		
Calcium	ug/L	102000	10000	10000	116000	114000	144	124	75-125	2	20	P6	
Chromium	ug/L	<1.0	250	250	249	246	100	98	75-125	1	20		
Cobalt	ug/L	<0.12	250	250	241	238	96	95	75-125	1	20		
Lead	ug/L	<0.24	250	250	252	248	101	99	75-125	1	20		
Lithium	ug/L	1.7	250	250	258	255	102	101	75-125	1	20		
Molybdenum	ug/L	12.2	250	250	266	263	102	100	75-125	1	20		
Selenium	ug/L	27.2	250	250	280	276	101	100	75-125	1	20		
Thallium	ug/L	0.16J	250	250	257	253	103	101	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch:	502870	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

METHOD BLANK: 2871186 Matrix: Water  
 Associated Lab Samples: 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/24/25 14:54	

LABORATORY CONTROL SAMPLE: 2871187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	578	560	97	80-120	

SAMPLE DUPLICATE: 2871188

Parameter	Units	40294036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	578	600	4	10	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch: 503019	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001

METHOD BLANK: 2872613 Matrix: Water

Associated Lab Samples: 40294106001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/29/25 16:31	

LABORATORY CONTROL SAMPLE: 2872614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	578	514	89	80-120	

SAMPLE DUPLICATE: 2872615

Parameter	Units	40294119001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	534	524	2	10	

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40294106

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QC Batch:	502882	Analysis Method:	EPA 9040
QC Batch Method:	EPA 9040	Analysis Description:	9040 pH
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

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SAMPLE DUPLICATE: 2871341

Parameter	Units	40294105001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	20	H6

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**QUALITY CONTROL DATA**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

QC Batch:	503542	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

METHOD BLANK: 2875121 Matrix: Water  
 Associated Lab Samples: 40294106001, 40294106002, 40294106003, 40294106004, 40294106005, 40294106006, 40294106007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	05/04/25 08:36	
Fluoride	mg/L	<0.095	0.32	05/04/25 08:36	
Sulfate	mg/L	<0.44	2.0	05/04/25 08:36	

LABORATORY CONTROL SAMPLE: 2875122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	
Fluoride	mg/L	2	2.1	105	90-110	
Sulfate	mg/L	20	20.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875123 2875124

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40294105001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	21.7	20	20	42.0	42.2	101	103	90-110	1	15		
Fluoride	mg/L	0.19J	2	2	2.4	2.4	109	109	90-110	1	15		
Sulfate	mg/L	185	100	100	280	280	95	94	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2875125 2875126

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40294106004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.7	20	20	23.6	23.6	105	105	90-110	0	15		
Fluoride	mg/L	0.45	2	2	2.6	2.6	106	107	90-110	1	15		
Sulfate	mg/L	16.7	20	20	37.8	38.0	106	107	90-110	0	15		

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**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

**Sample: MW-306**      **Lab ID: 40294106006**      Collected: 04/21/25 13:20      Received: 04/24/25 08:15      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>1.63 ± 0.728 (1.00)</b> <b>C:NA T:95%</b>	pCi/L	05/12/25 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.902 ± 0.494 (1.00)</b> <b>C:76% T:85%</b>	pCi/L	05/12/25 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.53 ± 1.22 (2.00)</b>	pCi/L	05/13/25 14:59	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FIELD BLANK</b> <b>Lab ID: 40294106007</b> Collected: 04/21/25 15:50      Received: 04/24/25 08:15      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>0.184 ± 0.313 (1.00)</b> <b>C:NA T:96%</b>	pCi/L	05/12/25 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.0291 ± 0.421 (1.00)</b> <b>C:75% T:81%</b>	pCi/L	05/12/25 13:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.213 ± 0.734 (2.00)</b>	pCi/L	05/13/25 14:59	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 2522069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40294106

QC Batch: 742133	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 3611447 Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.155 ± 0.186 (0.507) C:NA T:92%	pCi/L	05/12/25 12:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 2522069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40294106

QC Batch: 742134	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40294106006, 40294106007

METHOD BLANK: 3611450 Matrix: Water

Associated Lab Samples: 40294106006, 40294106007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0487 ± 0.309 (0.711) C:77% T:82%	pCi/L	05/12/25 13:03	

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### QUALIFIERS

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

#### DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2522069 EDGEWATER CCR (I-43)

Pace Project No.: 40294106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40294106001	MW-301	EPA 3010A	502897	EPA 6020B	502977
40294106002	MW-302	EPA 3010A	502897	EPA 6020B	502977
40294106003	MW-303	EPA 3010A	502897	EPA 6020B	502977
40294106004	MW-304	EPA 3010A	502897	EPA 6020B	502977
40294106005	MW-305	EPA 3010A	502897	EPA 6020B	502977
40294106006	MW-306	EPA 3010A	502899	EPA 6020B	502978
40294106007	FIELD BLANK	EPA 3010A	502899	EPA 6020B	502978
40294106006	MW-306	EPA 7470	503281	EPA 7470	503341
40294106007	FIELD BLANK	EPA 7470	503281	EPA 7470	503341
40294106001	MW-301				
40294106002	MW-302				
40294106003	MW-303				
40294106004	MW-304				
40294106005	MW-305				
40294106006	MW-306				
40294106006	MW-306	EPA 903.1	742133		
40294106007	FIELD BLANK	EPA 903.1	742133		
40294106006	MW-306	EPA 904.0	742134		
40294106007	FIELD BLANK	EPA 904.0	742134		
40294106006	MW-306	Total Radium Calculation	745328		
40294106007	FIELD BLANK	Total Radium Calculation	745328		
40294106001	MW-301	SM 2540C	503019		
40294106002	MW-302	SM 2540C	502870		
40294106003	MW-303	SM 2540C	502870		
40294106004	MW-304	SM 2540C	502870		
40294106005	MW-305	SM 2540C	502870		
40294106006	MW-306	SM 2540C	502870		
40294106007	FIELD BLANK	SM 2540C	502870		
40294106001	MW-301	EPA 9040	502882		
40294106002	MW-302	EPA 9040	502882		
40294106003	MW-303	EPA 9040	502882		
40294106004	MW-304	EPA 9040	502882		
40294106005	MW-305	EPA 9040	502882		
40294106006	MW-306	EPA 9040	502882		
40294106007	FIELD BLANK	EPA 9040	502882		
40294106001	MW-301	EPA 300.0	503542		
40294106002	MW-302	EPA 300.0	503542		
40294106003	MW-303	EPA 300.0	503542		
40294106004	MW-304	EPA 300.0	503542		
40294106005	MW-305	EPA 300.0	503542		
40294106006	MW-306	EPA 300.0	503542		
40294106007	FIELD BLANK	EPA 300.0	503542		

### REPORT OF LABORATORY ANALYSIS

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**Sample Condition Upon Receipt Form (SCUR)**

Client Name: SCS CCR

Project #:

**WO#: 40294106**



40294106

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Purple Mountain  
 Client  Pace Other: \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR-142 Type of Ice: Wet Blue Dry None  Meltwater Only

Cooler Temperature Uncorr: D.O /Corr: 0.5

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 4/24/25 Initials: EG  
 Labeled By Initials: MKS

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

## C3 June 2025 Resample of MW-302



June 25, 2025

Meghan Blodgett  
SCS ENGINEERS  
2830 Dairy Drive  
Madison, WI 53718

RE: Project: 25225069.00 I-43  
Pace Project No.: 40296643

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Matt Bizjack, Alliant Energy  
Natalie Burris, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Jenny Coughlin, Alliant Energy  
Tom Karwoski, SCS ENGINEERS  
Ryan Matzuk, SCS Engineers  
Jeff Maxted, ALLIANT ENERGY



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 25225069.00 I-43

Pace Project No.: 40296643

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 25225069.00 I-43  
Pace Project No.: 40296643

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40296643001	MW-302	Water	06/10/25 12:25	06/11/25 10:50
40296643002	FIELD BLANK	Water	06/10/25 12:20	06/11/25 10:50

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### SAMPLE ANALYTE COUNT

Project: 25225069.00 I-43  
Pace Project No.: 40296643

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
40296643001	MW-302		AG1	7
		EPA 300.0	AJS1	1
40296643002	FIELD BLANK		AG1	6
		EPA 300.0	AJS1	1

---

PASI-G = Pace Analytical Services - Green Bay

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### ANALYTICAL RESULTS

Project: 25225069.00 I-43

Pace Project No.: 40296643

Sample: MW-302 Lab ID: 40296643001 Collected: 06/10/25 12:25 Received: 06/11/25 10:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	7.81	Std. Units			1		06/10/25 12:25		
Field Specific Conductance	543	umhos/cm			1		06/10/25 12:25		
Oxygen, Dissolved	1.97	mg/L			1		06/10/25 12:25	7782-44-7	
REDOX	134.3	mV			1		06/10/25 12:25		
Turbidity	6.25	NTU			1		06/10/25 12:25		
Static Water Level	653.36	feet			1		06/10/25 12:25		
Temperature, Water (C)	11.5	deg C			1		06/10/25 12:25		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Fluoride	0.71	mg/L	0.32	0.095	1		06/19/25 10:36	16984-48-8	

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### ANALYTICAL RESULTS

Project: 25225069.00 I-43

Pace Project No.: 40296643

**Sample: FIELD BLANK**      **Lab ID: 40296643002**      Collected: 06/10/25 12:20      Received: 06/11/25 10:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>		Analytical Method: Pace Analytical Services - Green Bay							
Field pH	<b>7.98</b>	Std. Units			1		06/10/25 12:20		
Field Specific Conductance	<b>30.1</b>	umhos/cm			1		06/10/25 12:20		
Oxygen, Dissolved	<b>5.58</b>	mg/L			1		06/10/25 12:20	7782-44-7	
REDOX	<b>85.5</b>	mV			1		06/10/25 12:20		
Turbidity	<b>0.09</b>	NTU			1		06/10/25 12:20		
Temperature, Water (C)	<b>18.5</b>	deg C			1		06/10/25 12:20		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Fluoride	<b>&lt;0.095</b>	mg/L	0.32	0.095	1		06/19/25 11:09	16984-48-8	

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**QUALITY CONTROL DATA**

Project: 25225069.00 I-43

Pace Project No.: 40296643

QC Batch: 507966

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40296643001, 40296643002

METHOD BLANK: 2900068

Matrix: Water

Associated Lab Samples: 40296643001, 40296643002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.095	0.32	06/19/25 10:15	

LABORATORY CONTROL SAMPLE: 2900069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2	2.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2900070 2900071

Parameter	Units	2900070		2900071		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40296643001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	0.71	2	2	2.8	2.9	106	109	90-110	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 25225069.00 I-43

Pace Project No.: 40296643

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25225069.00 I-43  
Pace Project No.: 40296643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40296643001	MW-302				
40296643002	FIELD BLANK				
40296643001	MW-302	EPA 300.0	507966		
40296643002	FIELD BLANK	EPA 300.0	507966		

### REPORT OF LABORATORY ANALYSIS

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**Sample Condition Upon Receipt Form (SCUR)**

**Client Name:** SCS Engineers  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Purple Mountain  
 Client  Pace Other: \_\_\_\_\_

Project #:

**WO#: 40296643**  
  
 40296643

**Tracking #:** \_\_\_\_\_  
**Custody Seal on Cooler/Box Present:**  yes  no **Seals intact:**  yes  no  
**Custody Seal on Samples Present:**  yes  no **Seals intact:**  yes  no  
**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

**Thermometer Used** SR-136 **Type of Ice:**  Wet  Blue Dry  None  Meltwater Only

**Cooler Temperature** Uncorr: 1.0 ICorr: 1.0

**Temp Blank Present:**  yes  no **Biological Tissue is Frozen:**  yes  no

Person examining contents:  
 Date: 06/11/25 Initials: SKW  
 Labeled By Initials: EL

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>ACC</u>	<u>06/11/25 SKW</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Pg#</u>	<u>06/11/25 SKW</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
<b>Rush Turn Around Time Requested:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace			
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

**PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir**  
 Page 2 of 2

## C4 July 2025 MW-306 Background Monitoring



August 11, 2025

Meghan Blodgett  
SCS ENGINEERS  
2830 Dairy Drive  
Madison, WI 53718

RE: Project: 25225069 EDGEWATER CCR (I-43)  
Pace Project No.: 40298809

Dear Meghan Blodgett:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Matt Bizjack, Alliant Energy  
Natalie Burris, SCS ENGINEERS  
Sherren Clark, SCS Engineers  
Jenny Coughlin, Alliant Energy  
Tom Karwoski, SCS ENGINEERS  
Ryan Matzuk, SCS Engineers  
Jeff Maxted, ALLIANT ENERGY



## REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

#### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
 ANAB DOD-ELAP Rad Accreditation #: L2417  
 ANABISO/IEC 17025:2017 Rad Cert#: L24170  
 Alabama Certification #: 41590  
 Arizona Certification #: AZ0734  
 Arkansas Certification  
 California Certification #: 2950  
 Colorado Certification #: PA01547  
 Connecticut Certification #: PH-0694  
 EPA Region 4 DW Rad  
 Florida/TNI Certification #: E87683  
 Georgia Certification #: C040  
 Guam Certification  
 Hawaii Certification  
 Idaho Certification  
 Illinois Certification  
 Indiana Certification  
 Iowa Certification #: 391  
 Kansas Certification #: E-10358  
 Kentucky Certification #: KY90133  
 KY WW Permit #: KY0098221  
 KY WW Permit #: KY0000221  
 Louisiana DHH/TNI Certification #: LA010  
 Louisiana DEQ/TNI Certification #: 04086  
 Maine Certification #: 2023021  
 Maryland Certification #: 308  
 Massachusetts Certification #: M-PA1457  
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
 Montana Certification #: Cert0082  
 Nebraska Certification #: NE-OS-29-14  
 Nevada Certification #: PA014572023-03  
 New Hampshire/TNI Certification #: 297622  
 New Jersey/TNI Certification #: PA051  
 New Mexico Certification #: PA01457  
 New York/TNI Certification #: 10888  
 North Carolina Certification #: 42706  
 North Dakota Certification #: R-190  
 Ohio EPA Rad Approval: #41249  
 Oregon/TNI Certification #: PA200002-015  
 Pennsylvania/TNI Certification #: 65-00282  
 Puerto Rico Certification #: PA01457  
 Rhode Island Certification #: 65-00282  
 South Dakota Certification  
 Tennessee Certification #: TN02867  
 Texas/TNI Certification #: T104704188-22-18  
 Utah/TNI Certification #: PA014572223-14  
 USDA Soil Permit #: 525-23-67-77263  
 Vermont Dept. of Health: ID# VT-0282  
 Virgin Island/PADEP Certification  
 Virginia/VELAP Certification #: 460198  
 Washington Certification #: C868  
 West Virginia DEP Certification #: 143  
 West Virginia DHHR Certification #: 9964C  
 Wisconsin Approve List for Rad

#### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302  
 Florida/NELAP Certification #: E87948  
 Illinois Certification #: 200050  
 Kentucky UST Certification #: 82  
 Louisiana Certification #: 04168  
 Minnesota Certification #: 055-999-334  
 New York Certification #: 12064  
 North Dakota Certification #: R-150

South Carolina Certification #: 83006001  
 Texas Certification #: T104704529-21-8  
 Virginia VELAP Certification ID: 11873  
 Wisconsin Certification #: 405132750  
 Wisconsin DATCP Certification #: 105-444  
 USDA Soil Permit #: P330-21-00008  
 Federal Fish & Wildlife Permit #: 51774A

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### SAMPLE SUMMARY

Project: 25225069 EDGEWATER CCR (I-43)  
Pace Project No.: 40298809

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40298809001	MW-306	Water	07/21/25 12:30	07/22/25 10:15
40298809002	FIELD BLANK	Water	07/21/25 12:45	07/22/25 10:15

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### SAMPLE ANALYTE COUNT

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40298809001	MW-306	EPA 6010D	SIS	5	PASI-G
		EPA 6020B	KXS	14	PASI-G
		EPA 7470	AJT	1	PASI-G
			AG1	6	PASI-G
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	LMB	1	PASI-G
		EPA 9040	HML	1	PASI-G
		EPA 300.0	AJS1	3	PASI-G
		EPA 310.2	MT	1	PASI-G
		EPA 353.2	MT	1	PASI-G
		40298809002	FIELD BLANK	EPA 6010D	SIS
EPA 6020B	KXS			14	PASI-G
EPA 7470	AJT			1	PASI-G
EPA 903.1	TMY			1	PASI-PA
EPA 904.0	JJS1			1	PASI-PA
Total Radium Calculation	JAL			1	PASI-PA
SM 2540C	LMB			1	PASI-G
EPA 9040	HML			1	PASI-G
EPA 300.0	AJS1			3	PASI-G
EPA 310.2	MT			1	PASI-G
EPA 353.2	MT			1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

PASI-PA = Pace Analytical Services - Greensburg

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### ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

**Sample: MW-306**      **Lab ID: 40298809001**      Collected: 07/21/25 12:30      Received: 07/22/25 10:15      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	4.1J	ug/L	10.0	3.4	1	07/23/25 03:19	07/24/25 13:27	7440-50-8	
Manganese	53.0	ug/L	5.0	1.5	1	07/23/25 03:19	07/24/25 13:27	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	07/23/25 03:19	07/24/25 13:27	7440-22-4	
Total Hardness by 2340B	138	mg/L	5.4	1.0	1	07/23/25 03:19	07/24/25 13:27		
Zinc	12.5J	ug/L	40.0	11.6	1	07/23/25 03:19	07/24/25 13:27	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	1.3	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:25	7440-36-0	
Arsenic	3.3	ug/L	1.0	0.28	1	07/23/25 03:19	08/01/25 01:25	7440-38-2	
Barium	55.8	ug/L	2.3	0.70	1	07/23/25 03:19	08/01/25 01:25	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	07/23/25 03:19	08/01/25 01:25	7440-41-7	
Boron	193	ug/L	10.0	3.0	1	07/23/25 03:19	08/01/25 01:25	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:25	7440-43-9	
Calcium	24600	ug/L	254	76.2	1	07/23/25 03:19	08/01/25 16:30	7440-70-2	
Chromium	4.9	ug/L	3.4	1.0	1	08/01/25 10:34	08/01/25 22:13	7440-47-3	
Cobalt	1.1	ug/L	1.0	0.12	1	07/23/25 03:19	08/01/25 01:25	7440-48-4	
Lead	1.2	ug/L	1.0	0.24	1	07/23/25 03:19	08/01/25 01:25	7439-92-1	
Lithium	17.8	ug/L	1.0	0.22	1	07/23/25 03:19	08/01/25 01:25	7439-93-2	
Molybdenum	95.5	ug/L	1.5	0.44	1	07/23/25 03:19	08/01/25 01:25	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	07/23/25 03:19	08/01/25 01:25	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	07/23/25 03:19	08/01/25 01:25	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.099	ug/L	0.20	0.099	1	07/30/25 11:18	07/31/25 09:21	7439-97-6	M0
<b>Field Data</b>									
Analytical Method:									
Pace Analytical Services - Green Bay									
Field pH	8.37	Std. Units			1		07/21/25 12:30		
Field Specific Conductance	626	umhos/cm			1		07/21/25 12:30		
Oxygen, Dissolved	0.79	mg/L			1		07/21/25 12:30	7782-44-7	
REDOX	14.9	mV			1		07/21/25 12:30		
Turbidity	117.0	NTU			1		07/21/25 12:30		
Temperature, Water (C)	13.3	deg C			1		07/21/25 12:30		
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	426	mg/L	20.0	8.7	1		07/23/25 13:55		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	8.5	Std. Units	0.10	0.010	1		07/22/25 17:11		H6

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: MW-306 Lab ID: 40298809001 Collected: 07/21/25 12:30 Received: 07/22/25 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0 Pace Analytical Services - Green Bay							
Chloride	<b>13.4</b>	mg/L	10.0	3.0	5		07/25/25 16:04	16887-00-6	
Fluoride	<b>0.69J</b>	mg/L	1.6	0.48	5		07/25/25 16:04	16984-48-8	D3
Sulfate	<b>118</b>	mg/L	10.0	2.2	5		07/25/25 16:04	14808-79-8	
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2 Pace Analytical Services - Green Bay							
Alkalinity, Total as CaCO3	<b>177</b>	mg/L	25.0	7.4	1		08/04/25 10:25		
<b>353.2 Nitrogen, NO2/NO3 pres.</b>		Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay							
Nitrogen, NO2 plus NO3	<b>0.51</b>	mg/L	0.25	0.059	1		07/25/25 09:57		

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### ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: **FIELD BLANK** Lab ID: **40298809002** Collected: 07/21/25 12:45 Received: 07/22/25 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D MET ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Copper	<3.4	ug/L	10.0	3.4	1	07/23/25 03:19	07/24/25 13:28	7440-50-8	
Manganese	<1.5	ug/L	5.0	1.5	1	07/23/25 03:19	07/24/25 13:28	7439-96-5	
Silver	<3.2	ug/L	10.0	3.2	1	07/23/25 03:19	07/24/25 13:28	7440-22-4	
Total Hardness by 2340B	<1.0	mg/L	5.4	1.0	1	07/23/25 03:19	07/24/25 13:28		
Zinc	<11.6	ug/L	40.0	11.6	1	07/23/25 03:19	07/24/25 13:28	7440-66-6	
<b>6020B MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:29	7440-36-0	
Arsenic	<0.28	ug/L	1.0	0.28	1	07/23/25 03:19	08/01/25 01:29	7440-38-2	
Barium	<0.70	ug/L	2.3	0.70	1	07/23/25 03:19	08/01/25 01:29	7440-39-3	
Beryllium	<0.25	ug/L	1.0	0.25	1	07/23/25 03:19	08/01/25 01:29	7440-41-7	
Boron	<3.0	ug/L	10.0	3.0	1	07/23/25 03:19	08/01/25 01:29	7440-42-8	
Cadmium	<0.15	ug/L	1.0	0.15	1	07/23/25 03:19	08/01/25 01:29	7440-43-9	
Calcium	<76.2	ug/L	254	76.2	1	07/23/25 03:19	08/01/25 16:35	7440-70-2	
Chromium	<1.0	ug/L	3.4	1.0	1	08/01/25 10:34	08/01/25 22:17	7440-47-3	
Cobalt	<0.12	ug/L	1.0	0.12	1	07/23/25 03:19	08/01/25 01:29	7440-48-4	
Lead	<0.24	ug/L	1.0	0.24	1	07/23/25 03:19	08/01/25 01:29	7439-92-1	
Lithium	0.28J	ug/L	1.0	0.22	1	07/23/25 03:19	08/01/25 01:29	7439-93-2	
Molybdenum	<0.44	ug/L	1.5	0.44	1	07/23/25 03:19	08/01/25 01:29	7439-98-7	
Selenium	<0.32	ug/L	1.1	0.32	1	07/23/25 03:19	08/01/25 01:29	7782-49-2	
Thallium	<0.14	ug/L	1.0	0.14	1	07/23/25 03:19	08/01/25 01:29	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.099	ug/L	0.20	0.099	1	07/30/25 11:18	07/31/25 09:31	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Green Bay									
Total Dissolved Solids	<8.7	mg/L	20.0	8.7	1		07/23/25 13:56		
<b>9040 pH</b>									
Analytical Method: EPA 9040									
Pace Analytical Services - Green Bay									
pH at 25 Degrees C	6.8	Std. Units	0.10	0.010	1		07/22/25 17:31		H6
<b>300.0 IC Anions</b>									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Chloride	<0.59	mg/L	2.0	0.59	1		07/24/25 20:22	16887-00-6	
Fluoride	<0.095	mg/L	0.32	0.095	1		07/24/25 20:22	16984-48-8	
Sulfate	<0.44	mg/L	2.0	0.44	1		07/24/25 20:22	14808-79-8	
<b>310.2 Alkalinity</b>									
Analytical Method: EPA 310.2									
Pace Analytical Services - Green Bay									
Alkalinity, Total as CaCO3	<7.4	mg/L	25.0	7.4	1		08/04/25 10:28		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Sample: FIELD BLANK Lab ID: 40298809002 Collected: 07/21/25 12:45 Received: 07/22/25 10:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>353.2 Nitrogen, NO2/NO3 pres.</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Green Bay									
Nitrogen, NO2 plus NO3	<0.059	mg/L	0.25	0.059	1		07/25/25 09:58		

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511800

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2921346

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.099	0.20	07/31/25 09:12	

LABORATORY CONTROL SAMPLE: 2921347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2921348 2921349

Parameter	Units	2921348		2921349		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40298809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	ug/L	<0.099	5	5	4.1	3.9	81	78	85-115	3	20 M0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch:	511018	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917417 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<3.4	10.0	07/24/25 12:58	
Manganese	ug/L	<1.5	5.0	07/24/25 12:58	
Silver	ug/L	<3.2	10.0	07/24/25 12:58	
Total Hardness by 2340B	mg/L	<1.0	5.4	07/24/25 12:58	
Zinc	ug/L	<11.6	40.0	07/24/25 12:58	

LABORATORY CONTROL SAMPLE: 2917418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	250	262	105	80-120	
Manganese	ug/L	250	262	105	80-120	
Silver	ug/L	125	127	102	80-120	
Total Hardness by 2340B	mg/L		69.0			
Zinc	ug/L	250	257	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2917419 2917420

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40298616001 Result	Spike Conc.	Spike Conc.	Conc.								
Copper	ug/L	<3.4	250	250	250	264	262	105	104	75-125	1	20	
Manganese	ug/L	575	250	250	250	832	819	103	98	75-125	1	20	
Silver	ug/L	<3.2	125	125	125	128	127	102	101	75-125	1	20	
Total Hardness by 2340B	mg/L	874				944	926				2	20	
Zinc	ug/L	<11.6	250	250	250	260	257	100	99	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch:	511017	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917413 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<0.15	1.0	07/31/25 23:42	
Arsenic	ug/L	<0.28	1.0	07/31/25 23:42	
Barium	ug/L	<0.70	2.3	07/31/25 23:42	
Beryllium	ug/L	<0.25	1.0	07/31/25 23:42	
Boron	ug/L	<3.0	10.0	07/31/25 23:42	
Cadmium	ug/L	<0.15	1.0	07/31/25 23:42	
Calcium	ug/L	<76.2	254	08/01/25 15:54	
Cobalt	ug/L	<0.12	1.0	07/31/25 23:42	
Lead	ug/L	<0.24	1.0	07/31/25 23:42	
Lithium	ug/L	<0.22	1.0	07/31/25 23:42	
Molybdenum	ug/L	<0.44	1.5	07/31/25 23:42	
Selenium	ug/L	<0.32	1.1	07/31/25 23:42	
Thallium	ug/L	<0.14	1.0	07/31/25 23:42	

LABORATORY CONTROL SAMPLE: 2917414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	263	105	80-120	
Arsenic	ug/L	250	255	102	80-120	
Barium	ug/L	250	250	100	80-120	
Beryllium	ug/L	250	257	103	80-120	
Boron	ug/L	250	247	99	80-120	
Cadmium	ug/L	250	258	103	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Cobalt	ug/L	250	252	101	80-120	
Lead	ug/L	250	250	100	80-120	
Lithium	ug/L	250	248	99	80-120	
Molybdenum	ug/L	250	257	103	80-120	
Selenium	ug/L	250	267	107	80-120	
Thallium	ug/L	250	247	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2917415 2917416

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40298701006	Spike Conc.	Spike Conc.	Result						
Antimony	ug/L	<0.15	250	250	252	253	101	101	75-125	0	20
Arsenic	ug/L	0.69J	250	250	248	255	99	102	75-125	3	20

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Parameter	Units	2917415		2917416		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40298701006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	ug/L	27.1	250	250	269	273	97	98	75-125	2	20		
Beryllium	ug/L	<0.25	250	250	252	253	101	101	75-125	0	20		
Boron	ug/L	0.013 mg/L	250	250	263	256	100	97	75-125	3	20		
Cadmium	ug/L	<0.15	250	250	254	255	102	102	75-125	0	20		
Calcium	ug/L	17800	10000	10000	28200	27500	104	97	75-125	2	20		
Cobalt	ug/L	0.25J	250	250	245	252	98	101	75-125	3	20		
Lead	ug/L	<0.24	250	250	244	245	98	98	75-125	1	20		
Lithium	ug/L	1.4	250	250	250	244	99	97	75-125	2	20		
Molybdenum	ug/L	<0.44	250	250	253	255	101	102	75-125	1	20		
Selenium	ug/L	<0.32	250	250	260	265	104	106	75-125	2	20		
Thallium	ug/L	0.15J	250	250	243	243	97	97	75-125	0	20		

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 512030

Analysis Method: EPA 6020B

QC Batch Method: EPA 3010A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2922548

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<1.0	3.4	08/01/25 21:36	

LABORATORY CONTROL SAMPLE: 2922549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	250	248	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2922550 2922551

Parameter	Units	2922550		2922551		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40298701006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium	ug/L	1.2J	250	250	251	254	100	101	75-125	1	20

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511081	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2917604 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	07/23/25 13:53	

LABORATORY CONTROL SAMPLE: 2917605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	584	574	98	80-120	

SAMPLE DUPLICATE: 2917610

Parameter	Units	40298777001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	244	234	4	10	

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40298809

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QC Batch: 510950	Analysis Method: EPA 9040
QC Batch Method: EPA 9040	Analysis Description: 9040 pH
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

---

SAMPLE DUPLICATE: 2917009

Parameter	Units	40298512001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.4	0	20	H6

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch:	511297	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2918990 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<0.59	2.0	07/24/25 19:17	
Fluoride	mg/L	<0.095	0.32	07/24/25 19:17	
Sulfate	mg/L	<0.44	2.0	07/24/25 19:17	

LABORATORY CONTROL SAMPLE: 2918991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	105	90-110	
Fluoride	mg/L	2	2.1	104	90-110	
Sulfate	mg/L	20	20.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2918992 2918993

Parameter	Units	40298809001		2918992		2918993		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	13.4	100	100	116	116	103	102	90-110	0	15		
Fluoride	mg/L	0.69J	10	10	11.2	11.2	105	105	90-110	0	15		
Sulfate	mg/L	118	100	100	223	222	105	104	90-110	0	15		

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch:	512120	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2923938 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.4	25.0	08/04/25 10:23	

LABORATORY CONTROL SAMPLE: 2923939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	102	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2923940 2923941

Parameter	Units	2923940		2923941		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40298809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	177	100	100	276	277	99	100	90-110	0	20	

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**QUALITY CONTROL DATA**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 511353	Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2	Analysis Description: 353.2 Nitrate + Nitrite, preserved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 2919242 Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.059	0.25	07/25/25 09:46	

LABORATORY CONTROL SAMPLE: 2919243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2919244 2919245

Parameter	Units	40298602001		2919245		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	<0.059	2.5	2.5	2.5	101	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2919246 2919247

Parameter	Units	40298954002		2919247		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.						
Nitrogen, NO2 plus NO3	mg/L	15.1	12.5	27.3	27.4	98	99	90-110	0	20	

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**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

**Sample: MW-306**      **Lab ID: 40298809001**      Collected: 07/21/25 12:30      Received: 07/22/25 10:15      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>1.42U ± 0.805 (1.42)</b> <b>C:NA T:96%</b>	pCi/L	08/08/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.968U ± 0.421 (0.968)</b> <b>C:79% T:91%</b>	pCi/L	08/08/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.39U ± 1.23 (2.39)</b>	pCi/L	08/11/25 12:14	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FIELD BLANK</b> <b>Lab ID: 40298809002</b> Collected: 07/21/25 12:45      Received: 07/22/25 10:15      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	<b>1.32U ± 0.748 (1.32)</b> <b>C:NA T:91%</b>	pCi/L	08/08/25 14:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	<b>0.882U ± 0.398 (0.882)</b> <b>C:79% T:90%</b>	pCi/L	08/08/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.20U ± 1.15 (2.20)</b>	pCi/L	08/11/25 12:14	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 761053

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 3708960

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.129 ± 0.348 (0.750) C:NA T:94%	pCi/L	08/08/25 14:21	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

QC Batch: 761054

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 40298809001, 40298809002

METHOD BLANK: 3708961

Matrix: Water

Associated Lab Samples: 40298809001, 40298809002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.301 (0.648) C:81% T:91%	pCi/L	08/08/25 14:37	

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### QUALIFIERS

Project: 25225069 EDGEWATER CCR (I-43)

Pace Project No.: 40298809

#### DEFINITIONS

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 25225069 EDGEWATER CCR (I-43)  
 Pace Project No.: 40298809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40298809001	MW-306	EPA 3010A	511018	EPA 6010D	511148
40298809002	FIELD BLANK	EPA 3010A	511018	EPA 6010D	511148
40298809001	MW-306	EPA 3010A	511017	EPA 6020B	511119
40298809001	MW-306	EPA 3010A	512030	EPA 6020B	512079
40298809002	FIELD BLANK	EPA 3010A	511017	EPA 6020B	511119
40298809002	FIELD BLANK	EPA 3010A	512030	EPA 6020B	512079
40298809001	MW-306	EPA 7470	511800	EPA 7470	511847
40298809002	FIELD BLANK	EPA 7470	511800	EPA 7470	511847
40298809001	MW-306				
40298809001	MW-306	EPA 903.1	761053		
40298809002	FIELD BLANK	EPA 903.1	761053		
40298809001	MW-306	EPA 904.0	761054		
40298809002	FIELD BLANK	EPA 904.0	761054		
40298809001	MW-306	Total Radium Calculation	763761		
40298809002	FIELD BLANK	Total Radium Calculation	763761		
40298809001	MW-306	SM 2540C	511081		
40298809002	FIELD BLANK	SM 2540C	511081		
40298809001	MW-306	EPA 9040	510950		
40298809002	FIELD BLANK	EPA 9040	510950		
40298809001	MW-306	EPA 300.0	511297		
40298809002	FIELD BLANK	EPA 300.0	511297		
40298809001	MW-306	EPA 310.2	512120		
40298809002	FIELD BLANK	EPA 310.2	512120		
40298809001	MW-306	EPA 353.2	511353		
40298809002	FIELD BLANK	EPA 353.2	511353		

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**Sample Condition Upon Receipt Form (SCUR)**

**Client Name:** SCS  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Purple Mountain  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_  
**WO# : 40298809**  
  
 40298809

**Tracking #:** \_\_\_\_\_  
**Custody Seal on Cooler/Box Present:**  yes  no    **Seals intact:**  yes  no  
**Custody Seal on Samples Present:**  yes  no    **Seals intact:**  yes  no  
**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

**Thermometer Used** SR-142    **Type of Ice:**  Wet  Blue  Dry  None  Meltwater Only

**Cooler Temperature**    Uncorr: 0-0    ICorr: 0-5

**Temp Blank Present:**  yes  no    **Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
 Date: 7/21/25 /Initials: EL  
 Labeled By Initials: Prave

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- DI VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Correct Type: <u>Pace Green Bay</u> , Pace IR, Non-Pace		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis    Matrix: <u>WT</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

**PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir**  
 Page 2 of 2



# Appendix D

## Historical Monitoring Results

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-301

Number of Sampling Dates: 30

Parameter Name	Units	4/26/2016	6/21/2016	8/10/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/6/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019	4/7/2020
Boron	ug/L	298	157	151	148	174	--	177	181	144	138	145	149	136	120	126	142	133
Calcium	ug/L	389000	148000	94900	77800	127000	--	105000	51400	45200	57600	59400	48700	36700	43700	42900	42600	55800
Chloride	mg/L	28.5	18	6.2	7.4	8.9	--	8.2	6.3	5.6	7.5	5.2	4.7	4.7	4.1	4	3.8	6.9
Fluoride	mg/L	<2	1.1	0.62	0.65	0.86	--	0.77	0.64	0.61	0.87	0.63	0.62	0.62	0.61	0.63	0.63	0.82
Field pH	Std. Units	8.24	8.01	8.08	8	8.36	--	8.21	8.14	8.12	7.89	7.99	7.82	8.02	8.15	8.18	7.7	8.05
Sulfate	mg/L	25.9	15.9	7.4	9.5	9.6	--	9.3	9.1	9.1	9	8.2	8.6	9.3	8.8	9.2	9.3	11.2
Total Dissolved Solids	mg/L	343	290	306	312	264	194	254	276	240	264	248	236	214	260	230	256	276
Antimony	ug/L	0.98	0.58	0.12	<0.36	1	--	<0.36	2.7	1.4	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	20.8	8.1	5.8	4.6	7.3	--	6.8	5.6	4.7	3.7	4.2	--	--	--	--	--	--
Barium	ug/L	596	236	177	141	195	--	219	128	107	125	115	--	--	--	--	--	--
Beryllium	ug/L	3.9	1.1	0.54	<0.63	1.1	--	1.1	4.1	0.49	0.18	0.25	--	--	--	--	--	--
Cadmium	ug/L	0.47	<0.44	<0.089	<0.44	0.97	--	<0.44	2.1	1	0.091	<0.081	--	--	--	--	--	--
Chromium	ug/L	133	37.7	20.8	16	27.7	--	28.6	14.2	8.6	10.6	8.6	--	--	--	--	--	--
Cobalt	ug/L	36.3	10.6	5.4	4.2	8.4	--	7.6	5.2	2.9	2.7	2.3	--	--	--	--	--	--
Lead	ug/L	35.9	11.3	6.1	5.1	9.6	--	8.1	5.6	3.3	3.2	3	--	--	--	--	--	--
Lithium	ug/L	137	49.2	29	24.8	42.2	--	38.6	25.1	16.2	18.1	16.7	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	12.2	11.5	10.8	9.4	11	--	10.9	13.3	10.6	10.2	9.7	--	--	--	--	--	--
Selenium	ug/L	12.2	2.6	1.1	<1	2.5	--	<1	3.4	1.5	<0.32	0.39	--	--	--	--	--	--
Thallium	ug/L	0.88	<0.71	<0.14	<0.71	1.2	--	<0.71	2.6	1.3	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	1.9	1.29	-0.088	-0.595	0.446	--	0.432	0.546	-0.084	0.408	0.539	--	--	--	--	--	--
Radium-228	pCi/L	3.54	0.349	0.462	1.58	1.65	--	0.563	3.3	0.486	1.2	0.557	--	--	--	--	--	--
Total Radium	pCi/L	5.44	1.64	0.462	1.58	2.09	--	0.995	3.85	0.486	1.61	1.16	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	401	394	387	367	384	--	382	371	390	374	377	378	384	387	395	390	384
Oxygen, Dissolved	mg/L	1.1	0.9	0.1	0.1	0.09	--	0.1	1.5	0.3	0.2	0	0.6	0.1	0.2	0.2	0.32	0.3
Field Oxidation Potential	mV	-94	-178	-155	-135	-143	--	-141	33	-53	-171	-161	-46	-138	-97	-99	97	-69
Groundwater Elevation	feet	653.54	652.01	649.68	652.32	652.85	--	652.98	653.14	654.43	654.11	652.64	652.03	651.28	650.71	653.06	653.26	656.59
Temperature	deg C	8.7	10.9	10.9	11.3	7.5	--	8.5	9	9.9	11.1	10.5	9.7	8.6	9.5	9.4	9.8	9.5
Turbidity	NTU	340.1	916.9	739.9	452.6	895.1	--	650.8	264.3	207.4	322.2	349.1	150.6	89.45	136.6	125.8	133.7	259
pH at 25 Degrees C	Std. Units	7.8	8	7.6	7.8	7.9	--	8.1	7.9	8	8	7.9	7.8	8	7.2	7.9	7.9	7.9

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-301

Number of Sampling Dates: 30

Parameter Name	Units	10/13/2020	12/18/2020	4/13/2021	6/16/2021	10/26/2021	4/13/2022	10/4/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/23/2025
Boron	ug/L	142	--	132	--	130	124	124	119	128	131	130	117
Calcium	ug/L	33400	--	53900	--	30200	42100	35300	30600	26600	24400	24300	23300
Chloride	mg/L	4.2	--	3.9	--	3.3	3.7	3.9	3.4	3.5	3.3	3.3	3
Fluoride	mg/L	0.83	0.64	0.64	--	0.61	0.7	0.62	0.62	0.67	0.64	0.65	0.69
Field pH	Std. Units	7.96	7.64	8.48	8.14	8.23	8.03	7.98	8.05	8.07	7.62	7.72	8.08
Sulfate	mg/L	19	--	10.2	--	10.2	11.1	11.8	11.4	12.1	11	10.3	10.5
Total Dissolved Solids	mg/L	228	--	238	--	200	262	236	230	200	206	200	190
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	354	391	387	358	356	377	373	370	359	353	351	369
Oxygen, Dissolved	mg/L	1.1	0.5	0.2	0.3	1.3	0.49	0.63	1.4	0.87	1.84	0.78	0.97
Field Oxidation Potential	mV	162	1.7	-16	146	291	224.6	59.9	370.1	433.2	472.8	665.4	95
Groundwater Elevation	feet	652.16	653.91	654.56	649.78	650.76	651.65	648.87	653.26	648.65	652.95	650.21	653.23
Temperature	deg C	12.5	8.1	9.1	10.2	11.2	9.2	11.1	8.8	10.3	12.5	12	9.8
Turbidity	NTU	57.28	69.45	179	--	130	145	115	97.9	45.4	14.5	22.4	20.6
pH at 25 Degrees C	Std. Units	7.8	--	8	--	7.9	8	8	7.9	8	8.5	8.5	8.3

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-302

Number of Sampling Dates: 34

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/6/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019
Boron	ug/L	198	121	131	126	127	--	151	149	132	124	130	128	124	115	118	129
Calcium	ug/L	254000	49000	36500	30900	42600	--	59300	41900	40800	38700	33900	31200	30000	28200	28400	29900
Chloride	mg/L	19.5	8.9	7.1	7.6	10	--	8.9	6.9	6.7	6.9	5.6	5.5	5.2	4.5	4.4	3.8
Fluoride	mg/L	1.1	0.74	0.75	0.69	0.94	--	0.85	0.67	0.68	0.83	0.74	0.71	0.73	0.71	0.73	0.71
Field pH	Std. Units	8.33	8.05	6.24	12.2	8.31	--	8.16	8.16	8	7.95	7.98	7.7	8.02	8.08	8.14	7.67
Sulfate	mg/L	81.5	36.4	35	42.6	36.4	--	30.4	27.9	29.6	32.2	24	26.3	22.6	19.6	20.4	18.4
Total Dissolved Solids	mg/L	543	346	308	298	302	280	324	344	322	284	262	238	248	250	248	242
Antimony	ug/L	4.5	0.73	0.28	0.37	0.97	--	0.75	0.96	0.41	0.4	0.21	--	--	--	--	--
Arsenic	ug/L	26.7	7.8	6.2	4.5	6.5	--	9	8.5	5.7	7.2	6.3	--	--	--	--	--
Barium	ug/L	309	100	80.1	60.4	77.5	--	119	103	90.2	77.2	78.8	--	--	--	--	--
Beryllium	ug/L	3.8	0.69	0.22	<0.13	0.35	--	1	0.8	<0.63	<0.18	<0.18	--	--	--	--	--
Cadmium	ug/L	0.85	<0.18	<0.089	<0.089	0.6	--	<0.44	<0.44	<0.44	<0.081	<0.081	--	--	--	--	--
Chromium	ug/L	49.8	5.2	2	0.81	3	--	7	5.5	3.6	1.6	1.2	--	--	--	--	--
Cobalt	ug/L	14.6	1.8	0.65	0.36	1.1	--	2.5	2.1	1.1	0.52	0.47	--	--	--	--	--
Lead	ug/L	55	7.1	2.3	0.92	3.6	--	8.8	6.5	3.5	1.4	1.7	--	--	--	--	--
Lithium	ug/L	79.9	19.2	14.4	14	15.8	--	22.8	19.6	16.8	12.7	11.2	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--
Molybdenum	ug/L	24.4	11.8	11.5	12.7	10.7	--	11.6	9.8	10.3	10.7	8	--	--	--	--	--
Selenium	ug/L	21.6	2.3	0.64	0.39	1.4	--	2.1	2.7	1.4	<0.32	0.44	--	--	--	--	--
Thallium	ug/L	<0.71	<0.29	<0.14	<0.14	0.68	--	<0.71	<0.71	<0.71	<0.14	<0.14	--	--	--	--	--
Radium-226	pCi/L	4.55	1.73	0.0816	0	0.293	--	0.325	1.21	1.49	0.366	1.1	--	--	--	--	--
Radium-228	pCi/L	3	1.84	1.24	1.12	0.574	--	2.4	2.64	0.351	0.841	0.208	--	--	--	--	--
Total Radium	pCi/L	7.55	3.57	1.32	1.12	0.867	--	2.73	3.85	1.84	1.21	0.844	--	--	--	--	--
Field Specific Conductance	umhos/cm	648	508	507	510	497	--	486	470	491	419	435	455	434	433	426	423
Oxygen, Dissolved	mg/L	2.4	0.5	0.5	0	0	--	0.4	1	0	0.3	0	0.7	0.2	0.3	0.8	0.72
Field Oxidation Potential	mV	52	-108	-95	-107	-73	--	-79	25	-12	-14	-115	70	-75	60	18	90
Groundwater Elevation	feet	653.56	651.89	649.3	652.38	652.79	--	664.97	653.1	654.72	654.12	652.55	652.05	651.25	650.7	654.06	653.21
Temperature	deg C	8.8	10.1	11.3	12.2	8.1	--	8.6	9.1	9.7	12.1	10.7	10.4	8.8	10.1	9.9	9.7
Turbidity	NTU	961.9	248.2	85.43	32.08	190.8	--	372.8	296.2	144.2	84.5	56.73	33.56	35.46	23.32	18.41	11.73
pH at 25 Degrees C	Std. Units	8	8	7.8	7.8	7.9	--	8	7.9	8	7.9	7.9	7.9	8	7.9	7.9	7.9

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-302

Number of Sampling Dates: 34

Parameter Name	Units	4/8/2020	5/20/2020	10/13/2020	12/18/2020	4/13/2021	6/16/2021	10/26/2021	4/13/2022	6/16/2022	10/4/2022	4/24/2023	10/9/2023	11/14/2023	4/15/2024	10/2/2024	4/21/2025	6/10/2025
Boron	ug/L	111	--	128	--	121	--	122	113	--	117	114	129	--	123	126	120	--
Calcium	ug/L	27200	--	26900	--	28700	--	27200	28600	--	24800	26600	27900	--	26500	28200	25500	--
Chloride	mg/L	4.4	--	4.3	--	4.1	--	3.8	4	--	4.3	3.9	3.9	--	4.2	4	5.3	--
Fluoride	mg/L	0.75	0.7	0.82	0.73	0.76	0.77	0.74	0.85	0.77	0.72	0.74	0.77	0.77	0.74	0.75	0.79	0.71
Field pH	Std. Units	7.79	8.19	7.85	8.05	8.36	8.37	8.23	8.01	8.1	7.97	8	8.03	8	7.71	7.75	8.09	7.81
Sulfate	mg/L	19.4	--	19	--	17.4	--	15.9	17.2	--	17	16.1	16.5	--	24.8	19.4	32.4	--
Total Dissolved Solids	mg/L	254	--	192	--	232	--	220	238	--	222	240	222	--	246	192	280	--
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	413	420	418	426	412	386	393	399	384	383	387	381	391.3	414	401	444	543
Oxygen, Dissolved	mg/L	0.7	0.2	0.3	1	0.4	0.6	0.6	0.69	0.52	0.83	1.22	0.79	0.7	0.79	1.25	1.07	1.97
Field Oxidation Potential	mV	-3.4	-6	37	163	189	24	207	341	105.7	94.9	451.2	311.9	-79.9	455.7	631.4	-24	134.3
Groundwater Elevation	feet	656.47	655.81	652.17	653.88	654.57	649.75	650.88	651.62	650.55	648.85	653.25	648.67	649.97	652.93	650.48	653.24	653.36
Temperature	deg C	9.3	10	11.9	8.9	9.2	10.3	9.8	9.9	11.1	11.8	9	10.9	9.6	11.4	13.1	9.4	11.5
Turbidity	NTU	25.99	10.15	14.16	9.23	19.6	18.1	38.3	3.88	4.95	3.33	1.77	4.36	--	2.7	11.49	7.05	6.25
pH at 25 Degrees C	Std. Units	7.7	--	7.9	--	8	--	8	7.9	--	8	8	8	--	8.5	8.5	8.3	--

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-303

Number of Sampling Dates: 28

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/7/2019	4/8/2020
Boron	ug/L	86.4	85	96	90.8	81.6	--	99.8	93.9	89.8	89.1	95	89	94.6	87.3	88.4	91.2	79
Calcium	ug/L	48300	36900	36700	31600	50500	--	46700	32600	33200	35500	35900	29100	31900	31600	31700	30900	29900
Chloride	mg/L	15.5	6.9	6.8	6.8	22.9	--	8.8	5.3	6.2	6.2	5.7	6.8	5	4.4	4.1	4.7	4.3
Fluoride	mg/L	0.55	0.59	0.59	0.6	0.63	--	0.8	0.55	0.57	0.69	0.6	0.66	0.54	0.56	0.57	0.6	0.6
Field pH	Std. Units	7.96	7.98	6.24	8.03	8.32	--	8.23	8.24	8.15	7.9	7.91	7.59	7.98	8.04	8.05	10.12	7.67
Sulfate	mg/L	131	45.2	70.1	137	38.2	--	113	46.1	79.2	51.1	40.5	67.1	27.3	26.1	23.7	30.3	23.3
Total Dissolved Solids	mg/L	468	314	378	458	312	310	400	300	348	314	290	304	260	270	270	230	274
Antimony	ug/L	0.66	0.1	0.077	0.077	2.3	--	0.59	0.081	<0.073	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	2.8	5.3	4.4	2.7	3.2	--	3.8	5.5	2.8	4	4.4	--	--	--	--	--	--
Barium	ug/L	134	80.2	91.2	81.6	90.3	--	120	81.1	80.7	80.6	81.1	--	--	--	--	--	--
Beryllium	ug/L	0.18	<0.13	<0.13	<0.13	<0.13	--	0.13	<0.13	<0.13	<0.18	<0.18	--	--	--	--	--	--
Cadmium	ug/L	<0.089	<0.089	<0.089	<0.089	0.22	--	0.098	<0.089	<0.089	<0.081	<0.081	--	--	--	--	--	--
Chromium	ug/L	8.1	1	0.93	0.41	1.3	--	8.6	2.1	0.79	<1	<1	--	--	--	--	--	--
Cobalt	ug/L	2.2	0.5	0.4	0.32	0.63	--	2	0.75	0.34	0.4	0.44	--	--	--	--	--	--
Lead	ug/L	1.9	0.26	0.091	0.16	0.3	--	2.1	0.52	0.082	<0.2	0.22	--	--	--	--	--	--
Lithium	ug/L	19.3	10.2	13.1	14.8	10.3	--	20.1	11.9	13.2	11.4	11.4	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	45.4	12.7	23	34	9.4	--	30.5	11	21.2	14.4	12.4	--	--	--	--	--	--
Selenium	ug/L	0.66	<0.21	<0.21	<0.21	0.26	--	0.29	<0.21	<0.21	<0.32	<0.32	--	--	--	--	--	--
Thallium	ug/L	<0.14	0.17	<0.14	<0.14	<0.14	--	<0.14	<0.14	<0.14	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	0	0.721	0	0	0.367	--	-0.066	0.233	0.535	0.298	0.198	--	--	--	--	--	--
Radium-228	pCi/L	0.392	0.338	0.426	0.921	0.497	--	0.236	1.37	0.336	0.397	0.454	--	--	--	--	--	--
Total Radium	pCi/L	0.392	1.06	0.426	0.921	0.864	--	0.236	1.6	0.871	0.695	0.603	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	586	589	756	567	582	--	681	558	617	486	564	557	494	500	486	497	454
Oxygen, Dissolved	mg/L	1.1	0.8	0.4	2.2	0	--	0.9	0.1	0.6	0.4	0	1	0.2	0.2	0.2	0.56	0.5
Field Oxidation Potential	mV	178	-174	-138	-185	-156	--	-168	-119	-93	-65	-157	88	-125	-105	-65	127	-75.2
Groundwater Elevation	feet	653.59	651.8	649.37	652.18	652.82	--	652.92	653.1	654.55	654.14	652.5	652.03	651.3	650.7	654.06	653.27	656.46
Temperature	deg C	8.6	10.2	11.3	11.3	4.4	--	8.8	8.9	9.7	11	11.7	10.1	8.9	10	9.5	11.8	9.4
Turbidity	NTU	107.6	21.88	13.48	8.9	30.04	--	103.3	51.76	9.79	22.54	16.29	3.06	6.62	17.2	4.92	9.74	21.08
pH at 25 Degrees C	Std. Units	7.6	7.9	7.8	7.9	7.7	--	8.1	7.9	7.9	7.9	7.9	7.9	7.8	7.9	7.8	7.9	7.8

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-303

Number of Sampling Dates: 28

Parameter Name	Units	10/13/2020	4/13/2021	10/26/2021	4/11/2022	10/5/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	85.8	84.7	83.3	80.7	84.2	85.4	84.4	88.4	83	78.6
Calcium	ug/L	29000	29600	29300	31300	29600	31200	27400	28400	28700	26400
Chloride	mg/L	5.2	4.5	4.2	4.3	4.2	3.8	5.3	3.9	3.8	3.7
Fluoride	mg/L	0.7	0.62	0.61	0.71	0.56	0.58	0.76	0.63	0.63	0.66
Field pH	Std. Units	8.31	8.26	8.05	7.73	7.97	7.93	7.96	7.67	7.72	8.04
Sulfate	mg/L	33.2	25.6	28.9	24.9	23.9	20.6	26.7	24.4	24.7	23
Total Dissolved Solids	mg/L	150	260	268	274	270	268	266	262	266	254
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	570	475	478	458	455	447	446	439	453	456
Oxygen, Dissolved	mg/L	0.4	0.5	0.6	1.75	1.1	1.03	2.77	3.35	2.28	2.26
Field Oxidation Potential	mV	128	154	244	78	117.5	297.4	472.7	556.9	751	28
Groundwater Elevation	feet	652.2	654.53	650.9	651.58	648.89	653.31	648.65	652.96	650.15	653.49
Temperature	deg C	10.7	9.4	9.7	10.9	10.3	9.4	10.2	13	12.3	9.4
Turbidity	NTU	7.21	<0.02	71.5	0.92	2.64	1.65	1.22	2.04	0.27	1.08
pH at 25 Degrees C	Std. Units	7.9	8	8	7.9	7.9	8	7.9	8.5	8.4	8.2

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-304

Number of Sampling Dates: 28

Parameter Name	Units	4/26/2016	6/21/2016	8/9/2016	10/19/2016	12/19/2016	1/5/2017	1/23/2017	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/8/2019	10/8/2019	4/7/2020
Boron	ug/L	92.1	90.9	102	106	102	--	101	99.8	96.9	102	103	104	98.6	90.2	100	104	100
Calcium	ug/L	24500	25400	26700	23000	24800	--	24300	24500	24800	23500	23000	20100	20200	19400	19100	20600	18600
Chloride	mg/L	3.8	3.9	2.7	1.8	2.2	--	2.1	2.3	1.8	2	1.8	1.7	1.7	1.8	1.8	1.7	5.2
Fluoride	mg/L	0.49	0.55	0.51	0.45	0.59	--	0.5	0.5	0.48	0.6	0.53	0.54	0.5	0.5	0.51	0.48	0.75
Field pH	Std. Units	8.16	8	6.29	8.17	8.29	--	8.14	8.22	7.86	8.03	7.9	7.74	7.99	8.1	8.06	7.68	8.07
Sulfate	mg/L	13.8	14.2	13.2	13.5	14.6	--	14.3	14.6	14.5	14.9	14.2	14.2	15.2	13.5	14.5	13.5	15.4
Total Dissolved Solids	mg/L	222	234	244	232	198	212	214	206	224	218	222	208	222	224	226	172	228
Antimony	ug/L	0.11	0.52	0.36	<0.073	0.23	--	0.3	0.63	<0.073	<0.15	<0.15	--	--	--	--	--	--
Arsenic	ug/L	8.8	10	11.2	10.7	11.4	--	12.2	12.2	10.9	11.8	11.4	--	--	--	--	--	--
Barium	ug/L	77.6	74.7	81.5	73.4	71	--	81.1	73.5	73.7	79.1	75.1	--	--	--	--	--	--
Beryllium	ug/L	<0.13	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.18	<0.18	--	--	--	--	--	--
Cadmium	ug/L	<0.089	<0.089	<0.089	<0.089	0.17	--	<0.089	0.45	<0.089	<0.081	<0.081	--	--	--	--	--	--
Chromium	ug/L	0.75	0.94	0.78	<0.39	0.7	--	0.8	1	<0.39	<1	<1	--	--	--	--	--	--
Cobalt	ug/L	0.26	0.23	0.12	0.078	0.18	--	0.17	0.53	0.047	0.11	0.088	--	--	--	--	--	--
Lead	ug/L	0.36	0.52	0.24	0.12	0.44	--	0.54	0.78	0.08	<0.2	<0.2	--	--	--	--	--	--
Lithium	ug/L	9.1	9.1	9.4	9.1	10.1	--	9.5	8.9	9.2	9.1	9.2	--	--	--	--	--	--
Mercury	ug/L	<0.18	<0.13	<0.13	<0.13	<0.13	--	<0.13	<0.13	<0.13	<0.13	<0.13	--	--	--	--	--	--
Molybdenum	ug/L	4.6	4	3.9	3.8	3.7	--	3.8	4.1	3.6	4.7	3.7	--	--	--	--	--	--
Selenium	ug/L	<0.21	<0.21	<0.21	<0.21	<0.21	--	<0.21	0.32	<0.21	<0.32	<0.32	--	--	--	--	--	--
Thallium	ug/L	<0.14	<0.14	<0.14	<0.14	0.19	--	<0.14	0.59	<0.14	<0.14	<0.14	--	--	--	--	--	--
Radium-226	pCi/L	-0.215	0.511	0.161	-0.369	0.171	--	0.181	-0.164	0.326	0.604	2.05	--	--	--	--	--	--
Radium-228	pCi/L	0.687	0.288	0.137	0.625	-0.101	--	0.018	1.5	0.274	0.688	0.0736	--	--	--	--	--	--
Total Radium	pCi/L	0.687	0.799	0.298	0.625	0.171	--	0.199	1.5	0.6	1.29	1.1	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	409	402	399	397	394	--	393	382	399	391	382	387	398	400	395	404	392
Oxygen, Dissolved	mg/L	0.8	0.5	0.1	0	0.3	--	0	1.1	2	0.5	0.4	0.8	0.3	0.2	0.7	0.81	1.9
Field Oxidation Potential	mV	-57	-129	-127	-84	-3	--	-98	14	-100	-104	-107	145	-103	-81	-23	104	190
Groundwater Elevation	feet	655.9	653.79	651.55	654	654.26	--	654.37	654.49	654.85	655.7	654.49	653.65	652.86	652.26	655.59	654.77	658.16
Temperature	deg C	8.9	11.02	12	11.1	7.6	--	8.6	8.8	12	11.2	14.3	10	8.9	9.5	10.4	11	12.4
Turbidity	NTU	22.36	17.46	7.38	6.77	8.88	--	10.78	5.06	2.56	3	2.88	1.7	9.62	3	6.25	43.61	227.3
pH at 25 Degrees C	Std. Units	7.8	8	7.8	7.8	7.9	--	8	7.9	8	7.8	8	7.9	8	7.9	7.9	8	7.8

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-304

Number of Sampling Dates: 28

Parameter Name	Units	10/15/2020	4/13/2021	10/26/2021	4/11/2022	10/5/2022	4/24/2023	10/9/2023	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	94.5	91.7	89.8	89.3	91.8	87.1	92.1	90.3	89.4	85.3
Calcium	ug/L	15800	19700	21600	25500	19400	22000	20700	21000	21400	22800
Chloride	mg/L	2.1	2.1	2.3	2.3	2.4	2.2	2.5	2.7	2.7	2.7
Fluoride	mg/L	0.58	0.53	0.49	<0.095	0.47	0.52	0.55	0.49	0.49	0.45
Field pH	Std. Units	8.12	8.31	8.12	7.87	8.05	8.02	8.08	7.62	7.85	8.08
Sulfate	mg/L	15.5	15.3	15.6	16.2	16.2	15.6	16.4	16.8	17.4	16.7
Total Dissolved Solids	mg/L	228	224	218	220	218	226	220	234	226	218
Antimony	ug/L	--	--	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	411	403	398	392	400	385	293	398	406	412
Oxygen, Dissolved	mg/L	0.2	0.5	0.6	0.41	0.81	1.02	4.63	1.29	1.22	0.92
Field Oxidation Potential	mV	-10	216	205	135.6	157.2	315	307.6	385.5	623.4	-53
Groundwater Elevation	feet	654.17	656.36	652.54	653.08	650.51	654.83	650.24	654.82	652.01	655.04
Temperature	deg C	9.7	9.1	9.6	11.4	11.4	8.8	9.5	12.7	10.7	9.3
Turbidity	NTU	9.1	<0.02	96.3	5.11	77.7	2.32	55.7	9.05	20.4	5.46
pH at 25 Degrees C	Std. Units	8	8	8	7.9	8	7.9	7.9	8.5	8.4	8.3

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	2/23/2017	4/7/2017	6/6/2017	8/1/2017	10/23/2017	4/3/2018	10/4/2018	4/9/2019	10/8/2019
Boron	ug/L	94.4	86.4	78.8	76.5	70	71.7	65.9	68	73
Calcium	ug/L	93800	103000	102000	95900	90700	83000	82200	89000	90300
Chloride	mg/L	20.8	20.4	22.5	21.3	21.5	21.8	22.7	23	22.5
Fluoride	mg/L	0.73	0.59	0.72	0.69	0.64	0.63	0.58	0.65	0.63
Field pH	Std. Units	7.75	7.62	7.52	7.47	7.55	7.54	7.65	7.85	7.36
Sulfate	mg/L	127	131	140	130	134	129	130	136	137
Total Dissolved Solids	mg/L	576	576	598	570	540	566	572	568	548
Antimony	ug/L	0.21	0.088	0.59	0.53	0.23	<0.15	<0.15	0.78	<0.15
Arsenic	ug/L	3	2.5	2.5	2.3	2.4	2.2	2.3	2.9	2.4
Barium	ug/L	230	220	208	200	195	177	169	169	169
Beryllium	ug/L	0.21	0.15	<0.18	<0.18	<0.18	<0.18	<0.18	0.19	<0.25
Cadmium	ug/L	<0.089	<0.089	<0.081	<0.081	0.1	<0.081	<0.15	0.83	<0.15
Chromium	ug/L	10.8	6.8	4	2.7	1.8	<1	<1	1.2	<1
Cobalt	ug/L	2.6	1.5	0.8	0.56	0.5	<0.085	<0.12	0.83	<0.12
Lead	ug/L	2.4	1.6	0.98	0.87	0.44	<0.2	<0.24	0.81	<0.24
Lithium	ug/L	23.2	19.7	15.7	14.8	12.4	12	11.2	11.8	12.4
Mercury	ug/L	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.084	<0.084	<0.084
Molybdenum	ug/L	5	4.6	3.3	3.6	3.2	2.5	2.3	3.3	2.6
Selenium	ug/L	0.56	0.28	<0.32	<0.32	<0.32	<0.32	<0.32	0.92	<0.32
Thallium	ug/L	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.8	<0.14
Radium-226	pCi/L	0.35	0.0649	0.51	0.791	0.277	0.597	0.323	0.764	0.238
Radium-228	pCi/L	3.8	0.836	0.555	0.878	0.969	0.73	0.716	0.921	0.473
Total Radium	pCi/L	4.15	0.901	1.07	1.31	1.25	1.33	1.04	1.69	0.711
Field Specific Conductance	umhos/cm	856	922	884	901	886	915	941	942	935
Oxygen, Dissolved	mg/L	1.2	0.7	0.4	0.74	0.2	0.2	0.2	0.3	0.82
Field Oxidation Potential	mV	-224	-108	-167	-122	-125	-120	-101	-75	112
Groundwater Elevation	feet	658.02	659.65	659.7	658.54	657.22	656.24	655.89	659.03	658.77
Temperature	deg C	7.9	9.2	11.3	12.4	10.3	8.9	9.9	9.8	12.4
Turbidity	NTU	613.2	138	140.6	67.21	42.54	13.01	10.56	9.67	6.56
pH at 25 Degrees C	Std. Units	7.6	7.6	7.5	7.5	7.7	7.5	7.5	7.5	7.6

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	4/7/2020	10/15/2020	4/13/2021	10/26/2021	4/11/2022	10/4/2022	4/25/2023	10/9/2023
Boron	ug/L	65.8	65.5	66.6	67.8	61.5	63.7	60.8	64.5
Calcium	ug/L	88800	76800	86800	87800	88500	83700	80500	85800
Chloride	mg/L	24.9	24.5	25.3	24.9	27.5	29.6	28.3	29.6
Fluoride	mg/L	0.75	0.72	0.67	0.72	<0.095	0.59	0.84	<0.95
Field pH	Std. Units	7.48	7.63	7.76	7.76	7.42	7.51	7.49	7.56
Sulfate	mg/L	135	139	127	125	141	140	132	137
Total Dissolved Solids	mg/L	580	500	540	556	578	602	570	604
Antimony	ug/L	--	--	--	--	--	--	--	--
Arsenic	ug/L	--	--	--	--	--	--	--	--
Barium	ug/L	--	--	--	--	--	--	--	--
Beryllium	ug/L	--	--	--	--	--	--	--	--
Cadmium	ug/L	--	--	--	--	--	--	--	--
Chromium	ug/L	--	--	--	--	--	--	--	--
Cobalt	ug/L	--	--	--	--	--	--	--	--
Lead	ug/L	--	--	--	--	--	--	--	--
Lithium	ug/L	--	--	--	--	--	--	--	--
Mercury	ug/L	--	--	--	--	--	--	--	--
Molybdenum	ug/L	--	--	--	--	--	--	--	--
Selenium	ug/L	--	--	--	--	--	--	--	--
Thallium	ug/L	--	--	--	--	--	--	--	--
Radium-226	pCi/L	--	--	--	--	--	--	--	--
Radium-228	pCi/L	--	--	--	--	--	--	--	--
Total Radium	pCi/L	--	--	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	917	911	891	863	889	917	890	877
Oxygen, Dissolved	mg/L	0.53	0.3	0.8	1.6	0.45	0.67	1.71	0.46
Field Oxidation Potential	mV	28	-41	128	136	261.1	118.5	322.8	236.7
Groundwater Elevation	feet	661.58	658.08	659.69	655.86	657.58	654.4	658.22	654.22
Temperature	deg C	10.5	10	9.4	11	9.9	10.7	8.5	9.6
Turbidity	NTU	7.35	8.27	0.93	21.7	30.1	6.44	1.42	5.65
pH at 25 Degrees C	Std. Units	7.5	7.6	7.6	7.6	7.5	7.5	7.6	7.5

# Single Location

Name: WPL -  
Edgewater I43

Location ID: MW-305

Number of Sampling Dates: 21

Parameter Name	Units	4/15/2024	10/2/2024	4/21/2025
Boron	ug/L	63.4	61.3	57.4
Calcium	ug/L	87400	89600	81500
Chloride	mg/L	30.7	31.1	32.5
Fluoride	mg/L	0.66	0.78	0.73
Field pH	Std. Units	7.34	7.33	7.61
Sulfate	mg/L	134	116	123
Total Dissolved Solids	mg/L	578	504	590
Antimony	ug/L	--	--	--
Arsenic	ug/L	--	--	--
Barium	ug/L	--	--	--
Beryllium	ug/L	--	--	--
Cadmium	ug/L	--	--	--
Chromium	ug/L	--	--	--
Cobalt	ug/L	--	--	--
Lead	ug/L	--	--	--
Lithium	ug/L	--	--	--
Mercury	ug/L	--	--	--
Molybdenum	ug/L	--	--	--
Selenium	ug/L	--	--	--
Thallium	ug/L	--	--	--
Radium-226	pCi/L	--	--	--
Radium-228	pCi/L	--	--	--
Total Radium	pCi/L	--	--	--
Field Specific Conductance	umhos/cm	884	879	936
Oxygen, Dissolved	mg/L	1.64	2.74	0.99
Field Oxidation Potential	mV	395.1	575.1	-75
Groundwater Elevation	feet	658.53	656.6	658.61
Temperature	deg C	11.3	13.9	9.2
Turbidity	NTU	4.3	3.09	3.2
pH at 25 Degrees C	Std. Units	8.2	8.3	8.2

# Single Location

Name: WPL -

Edgewater I43

Location ID: MW-306

Number of Sampling Dates: 3

Parameter Name	Units	4/21/2025	7/21/2025
Boron	ug/L	534	193
Calcium	ug/L	709000	24600
Chloride	mg/L	14.6	13.4
Fluoride	mg/L	<1.9	0.69
Field pH	Std. Units	8.69	8.37
Sulfate	mg/L	124	118
Total Dissolved Solids	mg/L	820	426
Antimony	ug/L	3.5	1.3
Arsenic	ug/L	40.3	3.3
Barium	ug/L	1050	55.8
Beryllium	ug/L	9	<0.25
Cadmium	ug/L	2.1	<0.15
Chromium	ug/L	501	4.9
Cobalt	ug/L	81	1.1
Lead	ug/L	97.5	1.2
Lithium	ug/L	309	17.8
Mercury	ug/L	0.17	<0.099
Molybdenum	ug/L	114	95.5
Selenium	ug/L	<3.2	<0.32
Thallium	ug/L	1.8	<0.14
Radium-226	pCi/L	1.63	1.42
Radium-228	pCi/L	0.902	0.968
Total Radium	pCi/L	2.53	2.39
Field Specific Conductance	umhos/cm	622	626
Oxygen, Dissolved	mg/L	0.19	0.79
Field Oxidation Potential	mV	-155	14.9
Groundwater Elevation	feet	656.73	--
Temperature	deg C	10	13.3
Turbidity	NTU	--	117
pH at 25 Degrees C	Std. Units	8.5	8.5

## Appendix E

### April 2025 Alternative Source Demonstration

# Alternative Source Demonstration April 2025 Detection Monitoring

Edgewater Generating Station  
I-43 Ash Disposal Facility  
Town of Wilson  
Sheboygan County, Wisconsin

Prepared for:



**SCS ENGINEERS**

25225069.00 | December 22, 2025

2830 Dairy Drive  
Madison, WI 53718-6751  
608-224-2830

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- Figure 2 Site Plan and Monitoring Well Locations
- Figure 3 Bedrock Potentiometric Surface Map – April 2025

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## PE CERTIFICATION

	<p>I, Sherren Clark, hereby certify that the information in this alternate source demonstration is accurate and meets the requirements of 40 CFR 257.94(e)(2). This certification is based on my review of the groundwater data and related site information available for the Edgewater Generating Station I-43 Ash Disposal Facility. I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.</p>
	
	<p>12/22/2025</p>
	<p>(signature) <span style="float: right;">(date)</span></p>
	<p>Sherren Clark, PE (printed or typed name)</p>
	<p>License number E-29863</p>
	<p>My license renewal date is July 31, 2026.</p>
	
	<p>Pages or sheets covered by this seal: <span style="float: right;">12/22/2025</span></p>
	<p>Alternative Source Demonstration – April 2025 Detection</p>
	<p>Monitoring, Edgewater I-43 Ash Disposal Facility, Town of</p>
	<p>Wilson, Sheboygan County, Wisconsin (Entire Document)</p>

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## 1.0 INTRODUCTION

This Alternative Source Demonstration (ASD) was prepared to support compliance with the groundwater monitoring requirements of the “Coal Combustion Residuals (CCR) Final Rule” published by the U.S. Environmental Protection Agency (U.S. EPA) in the Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, dated April 17, 2015 (U.S. EPA, 2015), and subsequent amendments. Specifically, this report is prepared to fulfill the requirements of 40 CFR 257.94(e)(2). The applicable sections of the CCR Rule are provided below in italics.

### 1.1 §257.94(E)(2) ALTERNATIVE SOURCE DEMONSTRATION REQUIREMENTS

*The owner and operator may demonstrate that a source other than the CCR Unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels.*

An ASD is completed when there are exceedances of one or more benchmarks established within the groundwater monitoring program to determine if any other sources are likely causes of the identified exceedance(s) of established benchmark(s) at the site. This ASD was performed in response to results indicating a statistically significant increase (SSI) over background levels during detection monitoring under the CCR Rule.

This ASD report evaluates an SSI observed in the statistical evaluation of the April 2025 detection monitoring event at the Edgewater I-43 Ash Disposal Facility (I-43 ADF). This ASD report has been developed for an SSI for field pH at monitoring well MW-306.

### 1.2 SITE INFORMATION AND MAP

The I-43 ADF is located in the Town of Wilson, Sheboygan County, Wisconsin (**Figure 1**). The I-43 ADF receives CCR from the Edgewater Generating Station. The layout of the site on an aerial photograph base is shown on **Figure 2**. The I-43 ADF is operated under Wisconsin Department of Natural Resources (DNR) License No. 06078 (formerly No. 02853).

The I-43 ADF includes a closed landfill (Phases 1 and 2) and multiple landfill modules in Phases 3 and 4 of the facility. Contact water basins and storm water runoff basins, which do not receive CCR, are also present at the site. The existing CCR Unit evaluated for this ASD is referred to as:

- EDG I-43 Phase 3, Modules 1 & 2, and Phase 4 Module 1 (existing CCR Landfill)

The Phase 3 Module 1, Phase 3 Module 2, and Phase 4 Module 1 units were previously described as separate existing CCR landfills although they are collectively managed and permitted in one footprint as a single existing CCR landfill by the facility and by the DNR.

The closed landfill (Phase 1 and Phase 2, DNR License No. 02853) was completely closed in 2012. The closed landfill did not accept CCR after October 19, 2015; therefore, it is not subject to the requirements of 40 CFR 257.50-107. The closed landfill was constructed with a 5-foot compacted clay liner.

The active landfill, which is the CCR Unit, is constructed either with a 5-foot compacted clay liner overlain with a 1.5-foot-thick drainage layer or a 2-foot compacted clay liner and 60-mil high density polyethylene (HDPE) geomembrane, overlain by a 1-foot leachate collection drainage layer. The active landfill first accepted CCR for disposal in October 2011.

A map showing the CCR Unit and all background (or upgradient) and downgradient monitoring wells with identification numbers for the CCR groundwater monitoring program and the state monitoring program is provided as **Figure 2**.

### **1.3 STATISTICALLY SIGNIFICANT INCREASES IDENTIFIED**

The only SSI for the April 2025 monitoring event and the June 2025 and July 2025 resampling events was for field pH at monitoring well MW-306. Sample results for MW-306 exceeded the upper prediction limit (UPL) for field pH in both the April and July events. Fluoride exceeded the UPL at MW-302 during the April 2025 sampling event, but the June 2025 retest result was below the UPL; therefore, there was no SSI for fluoride at MW-302. Calcium and total dissolved solids (TDS) exceeded the UPLs at MW-306 during the April 2025 sampling event, but the July 2025 retest results were below the UPL; therefore, there was no SSI for calcium or TDS at MW-306. A summary of the April, June, and July 2025 constituent concentrations and the established benchmark concentrations is provided in **Table 1**. The constituent concentrations with results above the background concentrations are highlighted in the table.

### **1.4 OVERVIEW OF ALTERNATIVE SOURCE DEMONSTRATION**

This ASD report includes:

- Background information (**Section 2.0**)
- Evaluation of the potential that SSIs are due to methodology or analysis (**Section 3.0**)
- Evaluation of the potential that SSIs are due to natural sources or man-made sources other than the CCR Units (**Section 4.0**)
- ASD conclusions (**Section 5.0**)
- Monitoring recommendations (**Section 6.0**)

The CCR Rule constituent results from background and compliance sampling in April, June, and July 2025 are provided in **Table 1**. The October 2025 result for field pH at MW-306 is also included in **Table 1**. Review of the laboratory data for the October 2025 event is still in progress. Historical time series plots for field pH and other Appendix III and Appendix IV parameters are shown in **Appendix A**. Complete laboratory reports for the April 2025 detection monitoring event and June and July 2025 resampling monitoring events will be included in the 2025 Annual Groundwater Monitoring and Corrective Action Report for the I-43 ADF.

## 2.0 BACKGROUND

To provide context for the ASD evaluation, the following background information is provided in this section of the report, prior to the ASD evaluation sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system
- Other monitoring wells

## 2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

### 2.1.1 Regional Information

For the purposes of groundwater monitoring, the Niagara Dolomite Aquifer is considered to be the uppermost aquifer unit, as defined under 40 CFR 257.53, at the I-43 ADF. The dolomite aquifer is underlain by the Maquoketa shale, which is a confining unit. The Maquoketa shale is underlain by the Cambrian-Ordovician sandstone aquifer. This sequence of sedimentary bedrock units is over 1,500 feet thick in the area of the I-43 ADF. The sedimentary sequence is underlain by Precambrian crystalline rocks that are not considered an aquifer in eastern Wisconsin.

An unconsolidated sand and gravel aquifer is present in some parts of Sheboygan County (Skinner and Borman, 1973) but does not appear laterally extensive.

Regional groundwater flow in the dolomite aquifer in the vicinity of the site is to the east or northeast.

### 2.1.2 Site Information

Soils at the site are primarily clay with discontinuous layers of sand and silty sand to a depth of at least 100 feet. During drilling of the CCR wells, the unconsolidated materials were identified as consisting primarily of clay. Zones of sand and gravel are known to be present within the clay, but these appear to be discontinuous, and no nearby private wells screened within the unconsolidated material have been identified. Soils encountered in borings MW-301, MW-302, MW-303, MW-304, and MW-306 were primarily lean clay, silty clay, and silty sand. The upper 70 feet of soils in boring MW-305 were similar, but in approximately the lower 40 feet above bedrock, sand was the primary soil type. The depth to bedrock in the six wells ranged from approximately 109 feet to 133 feet below ground surface (bgs), and the elevation of the top of bedrock ranged from approximately 565 feet above mean sea level (amsl) to 605 feet amsl.

Shallow groundwater at the site generally flows east to west towards Weedens Creek, a tributary of the Sheboygan River.

Groundwater elevations at the CCR wells are summarized in **Table 2**. The April 2025 potentiometric surface map for the dolomite aquifer (**Figure 3**), based on groundwater elevations from monitoring wells MW-301 through MW-306, shows groundwater flow to the north, consistent with previous potentiometric surface maps. The southern portion of the map shows a northwest component of flow, driven by a higher water level at MW-305. This bedrock was shallower at this location so this well is screened at least 20 feet higher than the other wells, which may influence the water level in the well.

## 2.2 CCR MONITORING SYSTEM

The groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and four downgradient monitoring wells. The background wells include MW-304 and MW-305. The downgradient wells include MW-301, MW-302, MW-303, and MW-306. The CCR Rule wells are installed in the upper portion of the dolomite aquifer. Well depths range from approximately 119 to 145 feet, measured from the top of the well casing. MW-306 was recently added to the monitoring system and the April 2025 monitoring event was the first sampling event at this well. MW-306 was installed in June 2024.

## 2.3 OTHER MONITORING WELLS

Thirty-two groundwater monitoring wells currently exist at the I-43 ADF as part of the monitoring system developed for the state monitoring program. The well locations are shown on **Figure 2**. These monitoring wells and one on-site water supply well (WS-1) are used to monitor groundwater conditions at the active Phase 3/4 Landfill under DNR License No. 06078 and the closed phase 1/2 Landfill under DNR License No. 02853.

Monitoring wells for the state monitoring program are installed in the unconsolidated glacial till unit, which is not the uppermost aquifer as defined under 40 CFR 257.53. This shallow monitoring system includes water table wells, mid-depth piezometers, and deep piezometers. Well depths range from approximately 15 to 49 feet, measured from the top of the well casing.

## 3.0 METHODOLOGY AND ANALYSIS REVIEW

To evaluate the potential that an SSI is due to a source other than the regulated CCR Unit, SCS used a two-step evaluation process. First, the sample collection, field and laboratory analysis, and statistical evaluation were reviewed to identify potential errors or analysis that led to an exceedance of the benchmark. Second, potential alternative sources, including natural variation and man-made sources other than the CCR Unit, were evaluated. This section of the report provides the findings of the methodology and analysis review. **Section 4.0** of the report addresses the potential alternative sources.

### 3.1 SAMPLING AND FIELD ANALYSIS REVIEW

Field notes and sampling results were reviewed to determine if sampling error may have caused or contributed to the observed SSI for field pH. Potential field sampling errors or issues could include mislabeling of samples, improper sample handling, cross contamination during sampling, or other field errors. Field blank sample results were also reviewed for indication of potential contamination from sampling equipment or containers. Based on the review of the field notes and results, SCS did not identify any indication that the field pH SSI was due to a sampling error.

Although no sampling procedure errors were identified, the fact that the April 2025 sampling event was the first sampling event at MW-306 likely contributed to the SSI for field pH. As discussed further in **Section 4.1**, the SSI appears to be due to the fact that the well was still equilibrating with the aquifer following installation.

### 3.2 LABORATORY ANALYSIS REVIEW

Because field pH is a field parameter, laboratory analysis is not a potential factor contributing to the SSI.

### **3.3 STATISTICAL EVALUATION REVIEW**

The review of the statistical results and methods includes a quality control check of the following:

- Input analytical data vs. laboratory analytical reports
- Review statistical method and outlier concentration lists for each monitoring well/CCR Unit

SCS did not identify any errors or issues in the statistical evaluation that caused or contributed to the determination of an interwell SSI for field pH at well MW-306.

### **3.4 SUMMARY OF METHODOLOGY AND ANALYSIS REVIEW FINDINGS**

In summary, there were no changes to the SSI determination for the April 2025 monitoring event based on the methodology and analysis review. No errors causing or contributing to the reported field pH SSI were identified; however, the fact that the April 2025 event was the first sampling event at this well was identified as a potential factor contributing to the SSI.

## **4.0 ALTERNATIVE SOURCES**

This section of the report discusses the potential alternative sources for the SSI at MW-306, identifies the most likely alternative source(s), and presents the lines of evidence indicating that an alternative source is the most likely cause of the observed SSI for field pH.

### **4.1 POTENTIAL CAUSES OF SSI**

#### **4.1.1 Well Installation Effects**

Although MW-306 was properly developed, initial sample results at a new monitoring well can be influenced by suspended solids or by short-term groundwater chemistry changes due to air introduced to the aquifer during drilling or water used in drilling. These effects typically subside as suspended solids in the well settle or are pumped out and as the well and immediately surrounding aquifer materials return to equilibrium conditions. Concentrations of multiple Appendix III and IV parameters at MW-306 showed significant decreases in concentration between the April 2025 and July 2025 monitoring events, signaling that the well had not yet fully equilibrated from drilling activities at the time of sampling.

Well installation effects appear to be the primary cause of the SSI for field pH.

#### **4.1.2 Natural Variation**

The statistical analysis for field pH was completed using an interwell approach, comparing the April 2025 detection monitoring results to the UPLs calculated based on sampling of the background wells (MW-304 and MW-305). If concentrations of a constituent that is naturally present in the aquifer vary spatially, then the potential exists that the downgradient concentrations may be higher than upgradient concentrations due to natural variation.

Although natural spatial variation could contribute to the SSI for field pH at MW-306, this is difficult to evaluate because the field pH had not stabilized at the time of the April and July events.

### 4.1.3 Man-Made Alternative Sources

Man-made alternative sources that could potentially contribute to the field pH SSI at MW-306 include the closed I-43 Phase 1/2 Landfill, the contact water basin, or the ash unloading area. The closed Phase 1/2 Landfill was constructed with a 5-foot-thick compacted clay liner that is designed to inhibit the movement of leachate beyond the footprint of the closed landfill. The contact water basin consists of a 4-foot-thick compacted clay liner and a 60-mil HDPE textured geomembrane, overlain by a geotextile cushion and 1-foot of coarse aggregate. Based on the construction of these potential sources and the fact that field pH was the only parameter exceeding a UPL, the SSI is not attributed to man-made sources.

## 4.2 LINES OF EVIDENCE

The lines of evidence indicating that the SSI for field pH in compliance well MW-306, relative to the background wells, is due to the well was still equilibrating following installation include:

1. The field pH followed a steep decreasing trend from April to July to October 2025, and the October 2025 result was below the UPL.
2. Concentrations of multiple Appendix III and IV parameters at MW-306 showed significant decreases in concentration between the April 2025 and July 2025 monitoring events, signaling that the well had not yet fully equilibrated from drilling activities at the time of sampling. Baseline sampling at other CCR wells at the I-43 ADF showed similar trends in the initial sampling rounds.
3. The hydraulic conductivity of the thick glacial till aquitard overlying the dolomite aquifer is very low, and there is limited hydrogeologic connection between the shallow groundwater and the aquifer.
4. The active Phase 3/4 landfill was constructed with a clay and/or composite liner system, so the potential for a release is very low.

Each of these lines of evidence and the supporting data are discussed in more detail in the following sections.

### 4.2.1 Decreasing pH Trend at MW-306

As shown in **Table 1**, field pH decreased from 8.69 in April to 8.37 in July and 8.00 in October 2025, in comparison to a UPL of 8.32. This trend appears to reflect equilibration of the new monitoring well with the aquifer.

### 4.2.2 Other Parameter Trends

At other compliance and background wells, many parameter concentrations were initially high shortly after well installation and decreased substantially in subsequent sampling events. A similar trend is seen in the results from MW-306 from April 2025 to July 2025, signifying that this well was still not fully equilibrated at the time of sampling. **Appendix A** includes time series plots of the background and compliance CCR well results from April 2016 through July 2025. The plots include background and detection monitoring for Appendix III parameters and background monitoring for Appendix IV parameters.

### **4.2.3 Glacial Clay Till Hydraulic Conductivity**

The glacial clay till at the I-43 ADF is an aquitard with very low vertical hydraulic conductivity. A site review completed by Weston for the U.S. EPA in 2010 found that samples of the native upper clay till collected by Warzyn Engineering, Inc. (Warzyn) in 1981 contained 65 to 85 percent clay size particles, indicating low hydraulic conductivity.

Vertical hydraulic conductivity tests of the clay till, completed as part of the 1981 Warzyn study, found the upper clay till ranged from  $5 \times 10^{-8}$  to  $9 \times 10^{-8}$  cm/s. The 1981 Warzyn study estimated the time required for groundwater to traverse vertically through the till to be “on the order of hundreds if not thousands of years” (Warzyn, 1981). Observed high vertical gradients provide further documentation of very low vertical hydraulic conductivity at the site (Weston, 2010). These results suggest there is limited hydrogeologic connection between the upper shallow till aquitard and the uppermost bedrock aquifer.

### **4.2.4 Liner Construction**

The active landfill, which comprises the three CCR Units, is constructed with a low permeability liner system (compacted clay hydraulic conductivity is less than  $10^{-7}$  cm/s) that minimizes potential leakage. Each unit was constructed as follows:

- Phase 4 Module 1 - 5-foot compacted clay liner.
- Phase 3 Module 1 - 5-foot compacted clay liner.
- Phase 3 Module 2 - Composite liner system including 2 feet of compacted clay and a 60-mil HDPE geomembrane.

All constructed modules have a leachate collection drainage layer overlying the liner. The collected leachate flows by gravity and/or is pumped to the contact water basin. The leachate/contact water swales and contact water basin have composite liners, consisting of compacted clay overlain by a 60-mil HDPE geomembrane.

## **5.0 ALTERNATIVE SOURCE DEMONSTRATION CONCLUSIONS**

The lines of evidence discussed above regarding the SSI reported for field pH concentrations in downgradient monitoring well MW-306 demonstrate that the SSI is likely due to the well not yet reaching equilibrium with the aquifer at the time of sampling.

## **6.0 SITE GROUNDWATER MONITORING RECOMMENDATIONS**

In accordance with section 257.94(e)(2) of the CCR Rule, the I-43 site may continue with detection monitoring based on this ASD. The ASD report will be included in the 2025 Annual Report due January 31, 2026.

## 7.0 REFERENCES

Skinner, Earl L. and Borman, Ronald G., 1973, Water Resources of Wisconsin-Lake Michigan Basin, Department of the Interior United States Geological Survey Hydrogeologic Investigations Atlas HA-432, 1973.

U.S. Environmental Protection Agency, 2015, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, April 2015.

Warzyn Engineering, Inc., 1981, Summary Report, Proposed Fly Ash Disposal Facility, Beeck-Goebel Properties, Edgewater Power Plant – Unit 5, Wisconsin Power and Light Company, 1981.

Weston Solutions, Inc., 2010, Technical Memorandum: Alliant Energy Site – Site Historical Information Review and Evaluation, Sheboygan County, WI, December 2010.

## Tables

- 1 Groundwater Analytical Results Summary
- 2 Groundwater Elevation Summary – CCR Wells

**Table 1. Groundwater Analytical Results Summary**  
**Edgewater I-43 Ash Disposal Facility, Sheboygan, WI / SCS Engineers Project #25225069.00**

Parameter Name	Interwell UPL	Background Wells				Compliance Wells								
		MW-304		MW-305		MW-301		MW-302		MW-303		MW-306		
		4/21/2025	4/21/2025	Intrawell UPL	4/23/2025	Intrawell UPL	4/21/2025	6/10/2025	Intrawell UPL	4/21/2025	Intrawell UPL	4/21/2025	7/21/2025	10/7/2025 <sup>(5)</sup>
Groundwater Elevation, ft amsl		655.04	658.61		653.23		653.24	653.36		653.49		656.73	655.05	649.81
<b>Appendix III</b>														
Boron, µg/L		85.3	57.4	182	117	148	120	--	99.9	78.6	NA <sup>(4)</sup>	534	193	NA
Calcium, µg/L	103,000	22,800	81,500		23,300		25,500	--		26,400		709,000	24,600	NA
Chloride, mg/L	24.9	2.7	32.5		3.0		5.3	--		3.7		14.6	J,D3	13.4
Fluoride, mg/L	0.76	0.45	0.73		0.69		0.79	0.71		0.66		<1.9	D3	0.69
Field pH, Std. Units	8.32	8.08	7.61		8.08		8.09	7.81		8.04		8.69		8.37
Sulfate, mg/L	140	16.7	123		10.5		32.4	--		23.0		124		118
Total Dissolved Solids, mg/L	604	218	590		190		280	--		254		820		426
<b>Appendix IV</b>														
	UPL	GPS												
Antimony, µg/L	NA	6	--	--	--	--	--	--	--	--	--	3.5	J,D3	1.3
Arsenic, µg/L	NA	10	--	--	--	--	--	--	--	--	--	40.3		3.3
Barium, µg/L	NA	2000	--	--	--	--	--	--	--	--	--	1050		55.8
Beryllium, µg/L	NA	4	--	--	--	--	--	--	--	--	--	9.0		<0.25
Cadmium, µg/L	NA	5	--	--	--	--	--	--	--	--	--	2.1	J,D3	<0.15
Chromium, µg/L	NA	100	--	--	--	--	--	--	--	--	--	501		4.9
Cobalt, µg/L	NA	6	--	--	--	--	--	--	--	--	--	81		1.1
Fluoride, mg/L	NA	4	--	--	--	--	--	--	--	--	--	<1.9	D3	0.69
Lead, µg/L	NA	15	--	--	--	--	--	--	--	--	--	97.5		1.2
Lithium, µg/L	NA	40	--	--	--	--	--	--	--	--	--	309		17.8
Mercury, µg/L	NA	2	--	--	--	--	--	--	--	--	--	0.17	J	<0.099
Molybdenum, µg/L	NA	100	--	--	--	--	--	--	--	--	--	114		95.5
Selenium, µg/L	NA	50	--	--	--	--	--	--	--	--	--	<3.2	D3	<0.32
Thallium, µg/L	NA	2	--	--	--	--	--	--	--	--	--	1.8	J,D3	<0.14
Radium 226/228 Combined, pCi/L	NA	5	--	--	--	--	--	--	--	--	--	2.53		2.39

4.4 Blue shaded cell indicates the compliance well result exceeds the UPL (background) and the Limit of Quantitation (LOQ).

30.8 Yellow highlighted cell indicates the compliance well result exceeds the GPS value. This site is not in Assessment Monitoring and a GPS exceedance does not signify the parameter is present at a Statistically Significant Level (SSL) above the GPS. Site-specific GPS values have not been calculated at this site to date.

Abbreviations:  
 UPL = Upper Prediction Limit                      µg/L = micrograms per liter  
 SSI = Statistically Significant Increase            mg/L = milligrams per liter  
 -- = Not Analyzed                                      pCi/L = picocuries per liter  
 NA = Not Applicable                                    ft amsl = feet above mean sea level

LOQ = Limit of Quantitation  
 LOD = Limit of Detection  
 Std. Units = Standard Units

Notes:  
 J = Estimated concentration at or above the LOD and below the LOQ.  
 M0 = Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.  
 D3 = Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- Notes:
1. An individual result above the UPL does not constitute an SSI above background. See the accompanying letter text for identification of statistically significant results.
  2. Interwell UPLs calculated based on results from background wells MW-304 and MW-305. Interwell UPLs based on 1-of-2 retesting approach. Interwell UPLs were calculated with background results from the May 2016 through the October 2020 sampling event. Interwell UPLs for calcium, fluoride, field pH, and TDS were updated in 2024 to include background results through November 2023.
  3. Following the completion of the April 2018 Alternative Source Demonstration (ASD) Report, dated October 31, 2018, the statistical method for evaluating boron data at the three compliance monitoring wells was modified to an intrawell approach. Intrawell UPLs were calculated using results from the May 2016 through the April 2020 sampling events. Intrawell UPLs were updated in 2024 to include background results through November 2023.
  4. Intrawell UPL for boron at MW-306 will be calculated once four sampling rounds are completed.
  5. Review of the laboratory data for the October 2025 event is still in progress.

Created by: RM                      Date: 10/27/2022  
 Last revision by: RM              Date: 12/8/2025  
 Checked by: NLB                  Date: 12/8/2025

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**Table 2. Water Level Summary**  
**WPL - I43 / SCS Engineers Project #25225069.00**

Well Number	Ground Water Elevation in feet above mean sea level (amsl)					
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306
<b>Top of Casing Elevation (feet amsl) - resurveyed 12/12/2023</b>	697.19	702.81	719.47	692.12	717.97	693.61
<b>Top of Casing Elevation (feet amsl)</b>	696.96	702.57	719.25	691.97	717.67	--
<b>Screen Length (ft)</b>	5.0	5.0	5.0	5.0	5.0	5.0
<b>Total Depth (ft from top of casing)</b>	134.56	144.33	144.65	119.49	122.97	138.31
<b>Top of Well Screen Elevation (ft)</b>	567.40	563.24	579.60	577.48	600.46	560.30
<b>Measurement Date</b>						
April 26, 2016	653.54	653.56	653.59	655.90	--	NI
June 20, 2016	652.01	651.89	651.80	653.79	--	NI
August 9, 2016	649.68	649.30	649.37	651.55	--	NI
October 19, 2016	652.32	652.38	652.18	654.00	--	NI
December 19, 2016	652.85	652.79	652.82	654.26	--	NI
January 5, 2017	652.86	652.82	652.80	654.15	--	NI
January 23, 2017	652.98	664.97*	652.92	654.37	--	NI
February 23, 2017	653.14	653.10	653.10	654.49	658.02	NI
April 7, 2017	654.43	654.72	654.55	654.85	659.65	NI
June 6, 2017	654.11	654.12	654.14	655.70	659.70	NI
August 1, 2017	652.64	652.55	652.50	654.49	658.54	NI
October 23, 2017	652.03	652.05	652.03	653.65	657.22	NI
April 3, 2018	651.28	651.25	651.30	652.86	656.24	NI
October 4, 2018	650.71	650.70	650.70	652.26	655.89	NI
April 8-9, 2019	653.06	654.06	654.06	655.59	659.03	NI
October 8, 2019	653.26	653.21	653.27	654.77	658.77	NI
November 26, 2019	--	--	655.56	--	--	NI
April 7, 2020	656.59	656.47	656.46	658.16	661.58	NI
May 20, 2020	--	655.81	--	--	--	NI
October 13, 2020	652.16	652.17	652.20	654.17	658.08	NI
December 18, 2020	653.91	653.88	--	--	--	NI
April 13, 2021	654.56	654.57	654.53	656.36	659.69	NI
June 16, 2021	649.78	649.75	--	--	--	NI
October 26, 2021	650.76	650.88	650.90	652.54	655.86	NI
April 11-13, 2022	651.65	651.62	651.58	653.08	657.58	NI
June 16, 2022	--	650.55	--	--	--	NI
October 4, 2022	648.87	648.85	648.89	650.51	654.40	NI
February 14, 2023	651.61	651.60	651.61	653.17	656.25	NI
March 22, 2023	652.44	652.43	652.42	654.04	657.48	NI
April 24-25, 2023	653.26	653.25	653.31	654.83	658.22	NI
May 25, 2023	651.28	651.24	651.30	653.17	657.54	NI
June 26, 2023	648.06	648.05	648.07	649.86	655.07	NI
July 26, 2023	647.08	647.02	647.17	649.15	652.09	NI
October 11, 2023	648.65	648.67	648.65	650.24	654.22	NI
November 14, 2023	649.98	649.97	649.95	651.37	654.89	NI
<b>November 14, 2023 elevations based on re-surveyed TOC</b>	650.21	650.21	650.17	651.52	655.19	NI
April 15, 2024	652.95	652.93	652.96	654.82	658.53	NI
July 19, 2024	653.41	653.41	653.39	655.04	659.29	--
August 8, 2024	650.96	650.98	650.96	653.07	657.85	651.58
October 2, 2024	650.21	650.48	650.15	652.01	656.60	650.47
January 16, 2025	652.30	652.34	652.32	653.92	657.50	652.27
April 21, 2025	653.23	653.24	653.49	655.04	658.61	656.73
April 23, 2025	652.89	--	--	--	--	--
June 10, 2025	--	653.36	--	--	--	--
July 21, 2025	--	--	--	--	--	655.05
October 6-7, 2025	649.10	649.08	649.06	650.94	655.50	649.81
<b>Bottom of Well Elevation (ft)</b>	562.40	558.24	574.60	572.48	594.70	555.30

Notes: -- = not measured

\*: The calculated groundwater elevation at MW-302 on January 23, 2017 appears to reflect an error in recording the pre-purge depth to water during sampling.

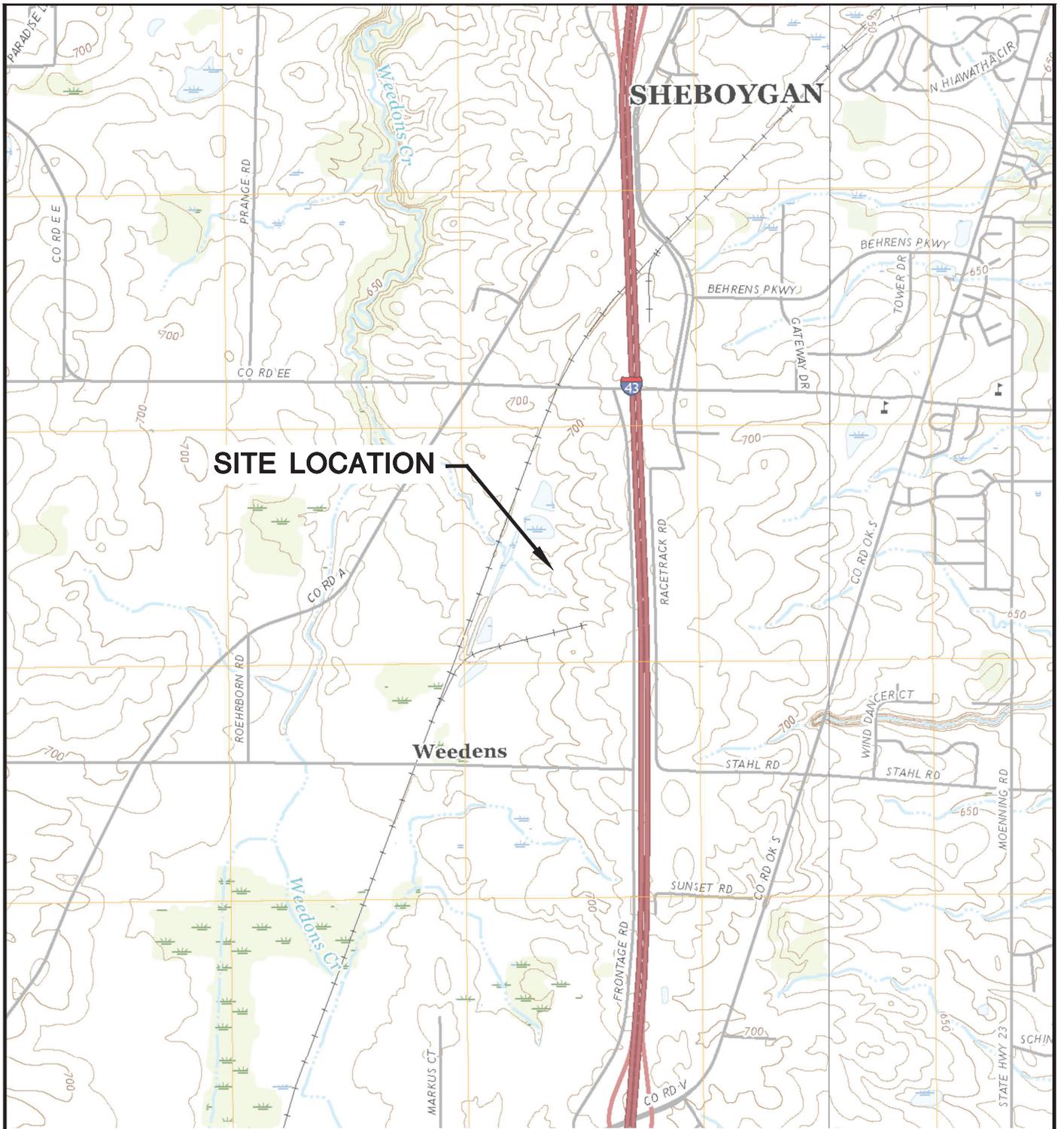
Created by: RM  
 Last rev. by: RM  
 Checked by: NLB

Date: 1/10/2020  
 Date: 11/13/2025  
 Date: 11/13/2025

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## Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Bedrock Potentiometric Surface Map – April 2025



SHEBOYGAN FALLS QUADRANGLE  
 WISCONSIN-SHEBOYGAN CO.  
 7.5 MINUTE SERIES (TOPOGRAPHIC)  
 2018  
 SCALE: 1" = 2,000'



CLIENT	WISCONSIN POWER AND LIGHT CO. 3739 LAKESHORE DRIVE SHEBOYGAN, WI 53081		SITE	ALLIANT ENERGY 1-43 ASH DISPOSAL FACILITY TOWN OF WILSON, WI		SITE LOCATION MAP
	PROJECT NO.	25219069.00		DRAWN BY:	BSS	
DRAWN:	11/20/2019	CHECKED BY:	MDB	FIGURE		
REVISED:	01/13/2020	APPROVED BY:	TK 01/30/2020		1	

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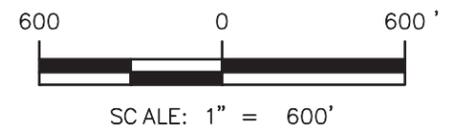


**LEGEND**

- LIMITS OF FINAL COVER
- CCR RULE BACKGROUND MONITORING WELL
- CCR RULE PIEZOMETER (BEDROCK)
- ⊕ LEACHATE HEADWELL
- MONITORING WELL (UNCONSOLIDATED)
- PIEZOMETER (UNCONSOLIDATED)
- PRIVATE WATER SUPPLY WELL
- ++++ RAILROAD TRACK
- CCR RULE UNIT
- MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
- MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)

**NOTES**

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/10/2022.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. RAIL DATA FROM BUREAU OF TRANSPORTATION STATISTICS (BTS); FEDERAL RAILROAD ADMINISTRATION (FRA). ACCESSED ON 04/30/2025.
5. MONITORING WELL INSTALLATION SUMMARY: MONITORING WELLS MW-301, MW-302, MW-303 AND MW-304 WERE INSTALLED BETWEEN NOVEMBER 30, 2015 AND JANUARY 26, 2016 BY BADGER STATE DRILLING INC. UNDER THE SUPERVISION OF SCS ENGINEERS. THESE WELLS WERE SURVEYED BY SCS ENGINEERS IN DECEMBER 2015 AND JANUARY 2016. MONITORING WELL MW-305 WAS INSTALLED FEBRUARY 2, 2017 BY BADGER STATE DRILLING, INC. THIS WELL WAS SURVEYED BY SCS ENGINEERS IN FEBRUARY 2017. MONITORING WELL MW-306 WAS INSTALLED JUNE 3-5, 2024 BY HORIZON CONSTRUCTION AND EXPLORATION, LLC OF FREDONIA, WI. THIS WELL WAS SURVEYED BY CEDAR CREEK SURVEYING LLC OF OOSTBURG, WI ON JULY 16, 2024.
6. TOPOGRAPHIC CONTOURS BASED ON AERIAL TOPOGRAPHIC SURVEY FLOWN DECEMBER 1, 2014 USING WISCONSIN STATE PLANE COORDINATES. ELEVATIONS BASED ON USGS NATIONAL GEODETIC VERTICAL DATUM, 1929. UPDATED WITH 2015 CONSTRUCTION AS-BUILT GRADES, 2016 CONSTRUCTION AS-BUILT GRADES FOR PHASE 4, MODULE 1 BY SCS ENGINEERS, DECEMBER 23, 2020 DRONE SURVEY OF PHASE 3, MODULE 2 ASH GRADES AND FUTURE PHASE 4 AREAS BY RYAN INCORPORATED CENTRAL, FEBRUARY AND APRIL 2024 PHASE 3 MODULE 2 SURVEYS BY SCS ENGINEERS, AND SEPTEMBER 19, 2024 DRONE SURVEY BY SCS ENGINEERS.



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PROJECT NO.	25225069.00	DRAWN BY:	AA
DRAWN:	05/08/2025	CHECKED BY:	NLB 05/15/2025
REVISED:	06/16/2025	APPROVED BY:	TK 12/08/2025

**SCS ENGINEERS**  
 2830 DAIRY DRIVE MADISON, WI 53718-6751  
 PHONE: (608) 224-2830

CLIENT INTERSTATE POWER AND LIGHT CO.  
 3739 LAKESHORE DRIVE  
 SHEBOYGAN, WI 53081

SITE ALLIANT ENERGY  
 1-43 ASH DISPOSAL FACILITY  
 TOWN OF WILSON, WISCONSIN

SITE PLAN AND MONITORING WELL LOCATIONS

FIGURE  
 2

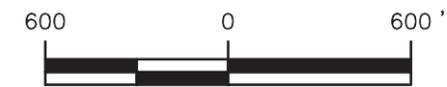


**LEGEND**

-  CCR RULE BACKGROUND MONITORING WELL
-  CCR RULE PIEZOMETER (BEDROCK)
-  LEACHATE HEADWELL
-  MONITORING WELL (UNCONSOLIDATED)
-  PIEZOMETER (UNCONSOLIDATED)
-  PRIVATE WATER SUPPLY WELL
-  LIMITS OF FINAL COVER
-  POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR LINE (CONTOUR INTERVAL 1.0 FT)
-  APPROXIMATE GROUNDWATER FLOW DIRECTION
-  CCR RULE UNIT
-  MAJOR TOPOGRAPHIC CONTOUR (10FT INTERVAL)
-  MINOR TOPOGRAPHIC CONTOUR (2FT INTERVAL)
- 650.47 POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FT AMSL)

**NOTES**

1. IMAGERY SOURCE: SHEBOYGAN COUNTY. DATE: 04/10/2022.
2. COORDINATE SYSTEM: NAD 1983 (2011) STATEPLANE WISCONSIN SOUTH FIPS 4803 (US FEET).
3. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
4. WELL INSTALLATION AND SURVEY INFORMATION, SEE SITE PLAN FIGURE 2 NOTES.
5. TOPOGRAPHIC CONTOURS BASED ON AERIAL TOPOGRAPHIC SURVEY FLOWN DECEMBER 1, 2014 USING WISCONSIN STATE PLANE COORDINATES. ELEVATIONS BASED ON USGS NATIONAL GEODETIC VERTICAL DATUM, 1929. UPDATED WITH 2015 CONSTRUCTION AS-BUILT GRADES, 2016 CONSTRUCTION AS-BUILT GRADES FOR PHASE 4, MODULE 1 BY SCS ENGINEERS, DECEMBER 23, 2020 DRONE SURVEY OF PHASE 3, MODULE 2 ASH GRADES AND FUTURE PHASE 4 AREAS BY RYAN INCORPORATED CENTRAL, FEBRUARY AND APRIL 2024 PHASE 3 MODULE 2 SURVEYS BY SCS ENGINEERS, AND SEPTEMBER 19, 2024 DRONE SURVEY BY SCS ENGINEERS.
6. STATE MONITORING WELLS: WS-1, W-2, W-6, W-6A, W-10, W-10A, W-11A, W-12AR, W-17, W-17AR, W-18, W-18AR, W-19, W-19A, W-21, W-22, W-33A, W-34R, W-37, W-38, W-39, W-40, W-40A.
7. CCR BACKGROUND WELLS: MW-304 AND MW-305.
8. CCR WELLS: MW-301, MW-302 AND MW-303.
9. LEACHATE POINTS: LCB-1, LHW-1, LVHW-1, LVHW-2, LHW-3, LVHW-3, LHW-4-1.
10. OTHER POINTS: PRIVATE WATER SUPPLY WELL WS-1, MW-306.
11. WATER LEVELS MEASURED ON APRIL 21 AND 23, 2025.



SCALE: 1" = 600'



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PROJECT NO.	25225069.00	DRAWN BY:	AA
DRAWN:	05/07/2025	CHECKED BY:	NLB 12/04/2025
REVISED:	12/10/2025	APPROVED BY:	TK 12/11/2024

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CLIENT INTERSTATE POWER AND LIGHT CO.  
 3739 LAKESHORE DRIVE  
 SHEBOYGAN, WI 53081

SITE ALLIANT ENERGY  
 I-43 ASH DISPOSAL FACILITY  
 TOWN OF WILSON, WISCONSIN

BEDROCK DEEP POTENTIOMETRIC GROUNDWATER  
 SURFACE ELEVATION CONTOUR MAP  
 APRIL 2025

FIGURE  
 3



# Appendix A

## Time Series Plots

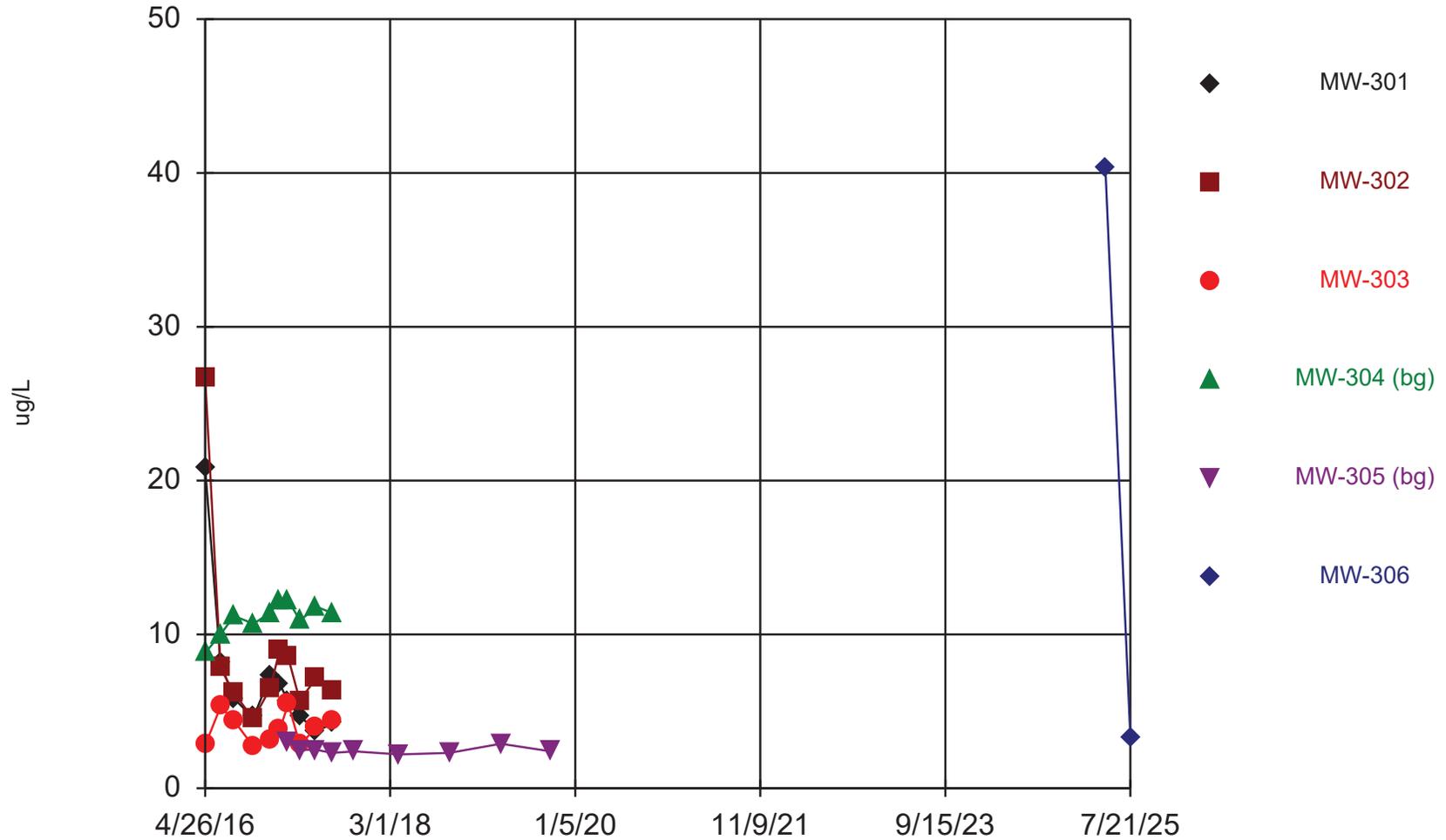


# Time Series

Constituent: Antimony (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring  
 I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	0.98 (J)	4.5 (J)	0.66 (J)	0.11 (J)		
6/21/2016	0.58 (J)	0.73 (J)	0.1 (J)	0.52 (J)		
8/9/2016		0.28 (J)	0.077 (J)	0.36 (J)		
8/10/2016	0.12 (J)					
10/19/2016	<0.36 (U)	0.37 (J)	0.077 (J)	<0.073 (U)		
12/19/2016	1 (J)	0.97 (J)	2.3	0.23 (J)		
1/23/2017	<0.36 (U)	0.75 (J)	0.59 (J)	0.3 (J)		
2/23/2017	2.7 (J)	0.96 (J)	0.081 (J)	0.63 (J)	0.21 (J)	
4/6/2017	1.4 (J)	0.41 (J)				
4/7/2017			<0.073 (U)	<0.073 (U)	0.088 (J)	
6/6/2017	<0.15 (U)	0.4 (J)	<0.15 (U)	<0.15 (U)	0.59 (J)	
8/1/2017	<0.15 (U)	0.21 (J)	<0.15 (U)	<0.15 (U)	0.53 (J)	
10/23/2017					0.23 (J)	
4/3/2018					<0.15 (U)	
10/4/2018					<0.15 (U)	
4/9/2019					0.78 (J)	
10/8/2019					<0.15 (U)	
4/21/2025						3.5 (J)
7/21/2025						1.3

### Time Series

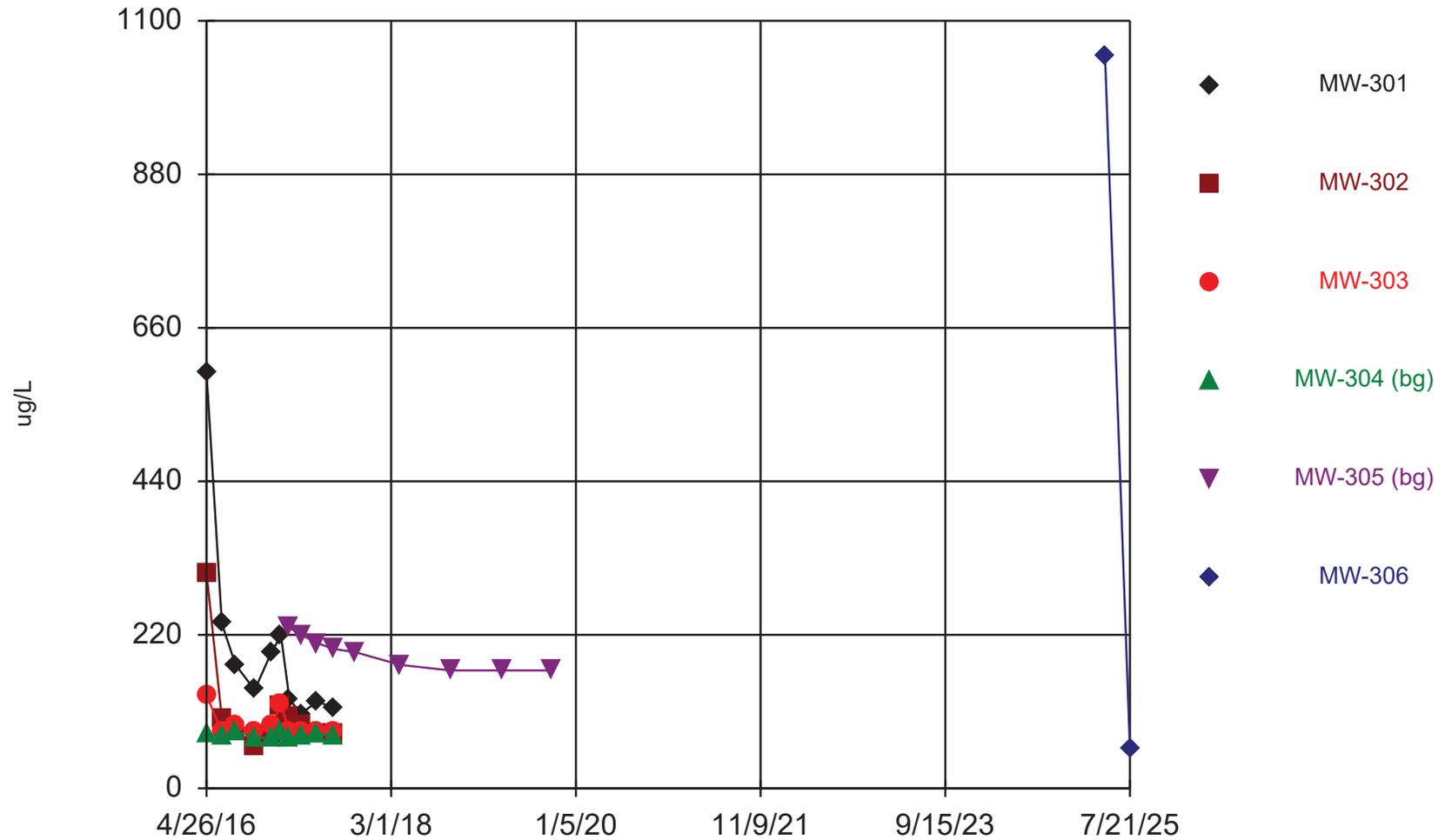


# Time Series

Constituent: Arsenic (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring  
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	20.8	26.7	2.8	8.8		
6/21/2016	8.1	7.8	5.3	10		
8/9/2016		6.2	4.4	11.2		
8/10/2016	5.8					
10/19/2016	4.6 (J)	4.5	2.7	10.7		
12/19/2016	7.3	6.5	3.2	11.4		
1/23/2017	6.8	9	3.8	12.2		
2/23/2017	5.6	8.5	5.5	12.2	3	
4/6/2017	4.7	5.7				
4/7/2017			2.8	10.9	2.5	
6/6/2017	3.7	7.2	4	11.8	2.5	
8/1/2017	4.2	6.3	4.4	11.4	2.3	
10/23/2017					2.4	
4/3/2018					2.2	
10/4/2018					2.3	
4/9/2019					2.9	
10/8/2019					2.4	
4/21/2025						40.3
7/21/2025						3.3

### Time Series



Constituent: Barium Analysis Run 11/12/2025 1:58 PM View: I-43 LF Detection Monitoring  
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

# Time Series

Constituent: Barium (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring  
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	596	309	134	77.6		
6/21/2016	236	100	80.2	74.7		
8/9/2016		80.1	91.2	81.5		
8/10/2016	177					
10/19/2016	141	60.4	81.6	73.4		
12/19/2016	195	77.5	90.3	71		
1/23/2017	219	119	120	81.1		
2/23/2017	128	103	81.1	73.5	230	
4/6/2017	107	90.2				
4/7/2017			80.7	73.7	220	
6/6/2017	125	77.2	80.6	79.1	208	
8/1/2017	115	78.8	81.1	75.1	200	
10/23/2017					195	
4/3/2018					177	
10/4/2018					169	
4/9/2019					169	
10/8/2019					169	
4/21/2025						1050
7/21/2025						55.8

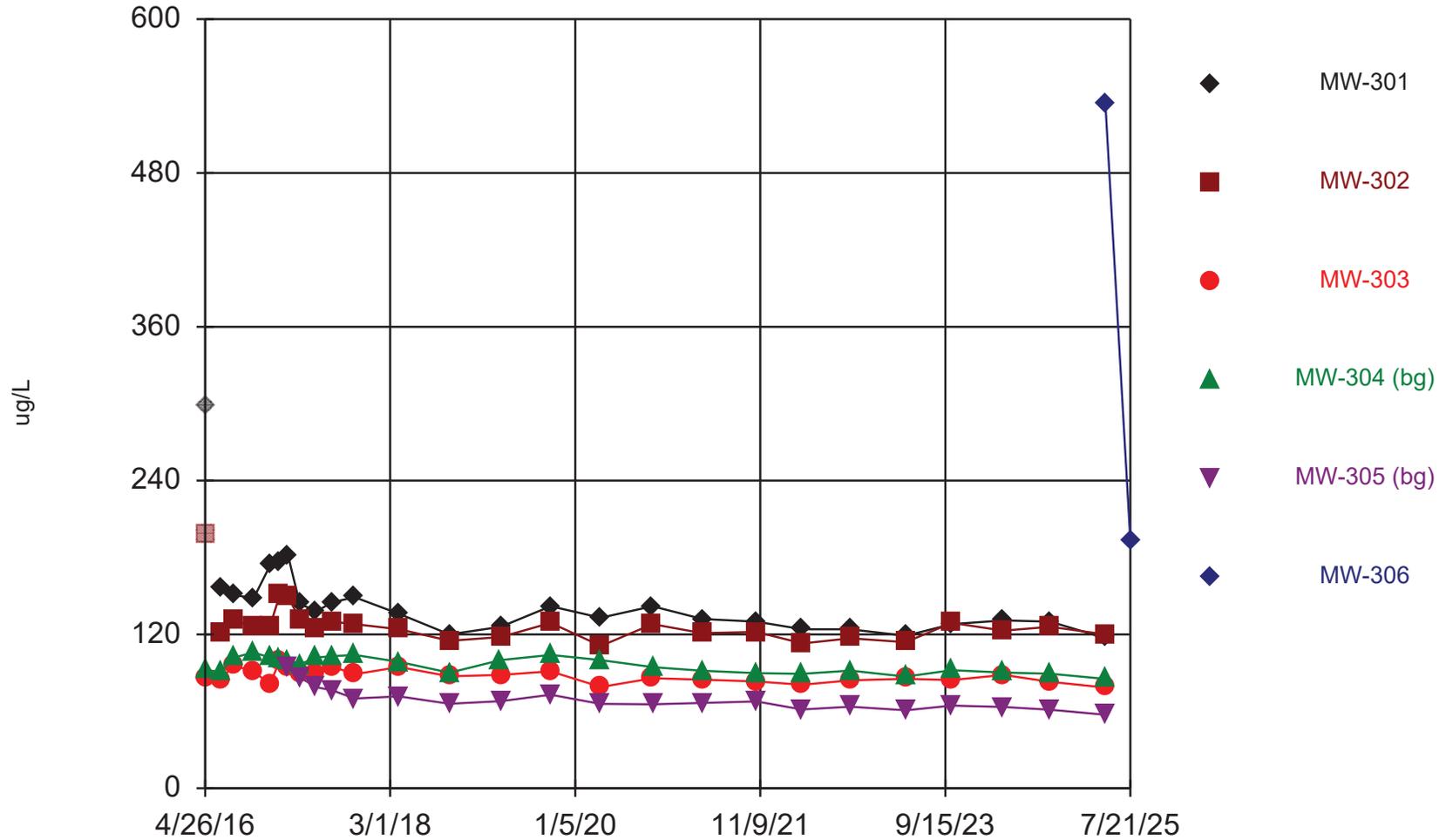


# Time Series

Constituent: Beryllium (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring  
 I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	3.9 (J)	3.8 (J)	0.18 (J)	<0.13 (U)		
6/21/2016	1.1 (J)	0.69 (J)	<0.13 (U)	<0.13 (U)		
8/9/2016		0.22 (J)	<0.13 (U)	<0.13 (U)		
8/10/2016	0.54 (J)					
10/19/2016	<0.63 (U)	<0.13 (U)	<0.13 (U)	<0.13 (U)		
12/19/2016	1.1 (J)	0.35 (J)	<0.13 (U)	<0.13 (U)		
1/23/2017	1.1 (J)	1 (J)	0.13 (J)	<0.13 (U)		
2/23/2017	4.1 (J)	0.8 (J)	<0.13 (U)	<0.13 (U)	0.21 (J)	
4/6/2017	0.49 (J)	<0.63 (U)				
4/7/2017			<0.13 (U)	<0.13 (U)	0.15 (J)	
6/6/2017	0.18 (J)	<0.18 (U)	<0.18 (U)	<0.18 (U)	<0.18 (U)	
8/1/2017	0.25 (J)	<0.18 (U)	<0.18 (U)	<0.18 (U)	<0.18 (U)	
10/23/2017					<0.18 (U)	
4/3/2018					<0.18 (U)	
10/4/2018					<0.18 (U)	
4/9/2019					0.19 (J)	
10/8/2019					<0.25 (U)	
4/21/2025						9
7/21/2025						<0.25 (U)

### Time Series



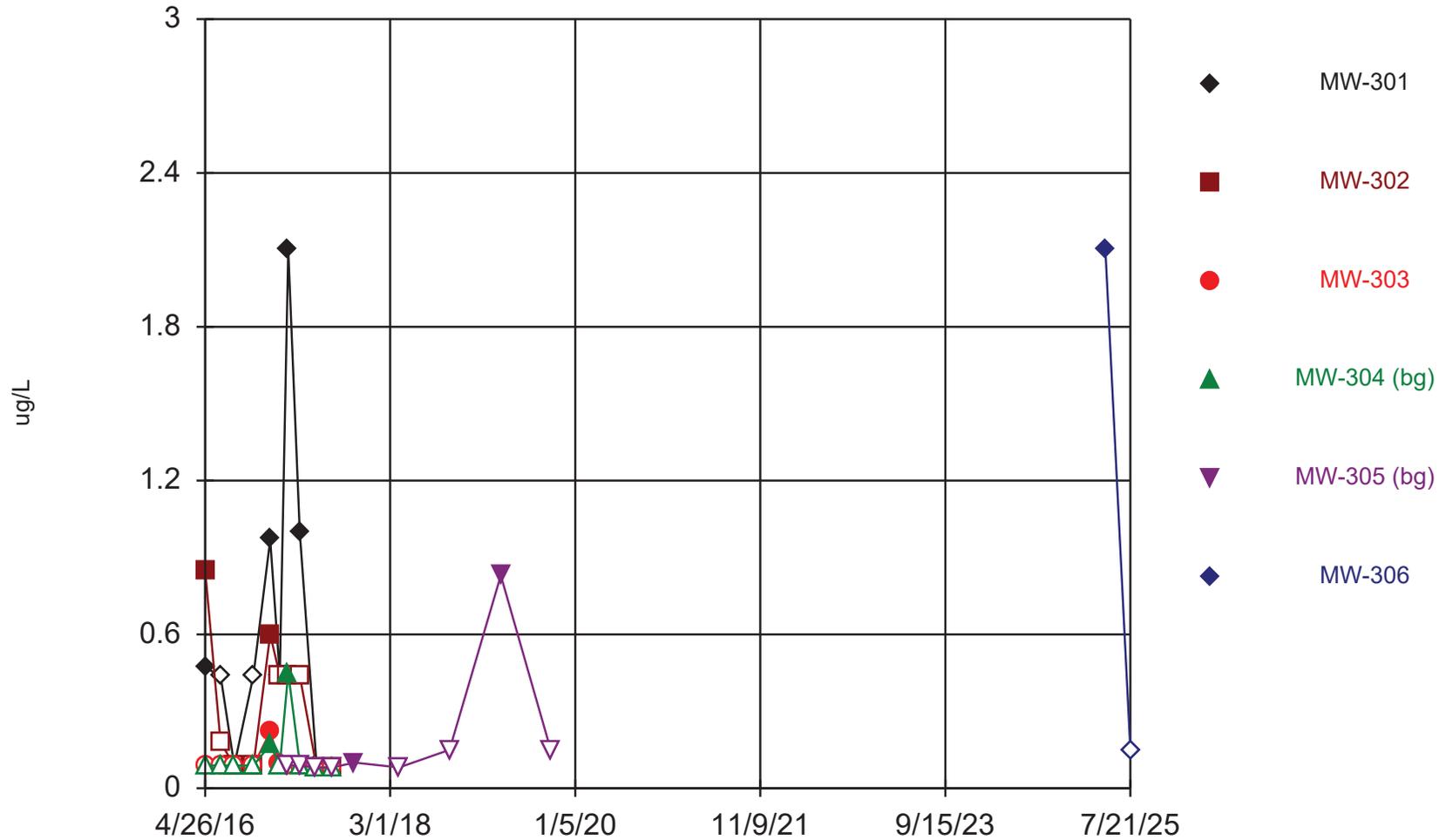
Constituent: Boron Analysis Run 11/12/2025 1:59 PM View: I-43 LF Detection Monitoring  
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

# Time Series

Constituent: Boron (ug/L) Analysis Run 11/12/2025 2:26 PM View: I-43 LF Detection Monitoring  
 I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43

	MW-301	MW-302	MW-303	MW-304 (bg)	MW-305 (bg)	MW-306
4/26/2016	298 (X)	198 (X)	86.4	92.1		
6/21/2016	157	121	85	90.9		
8/9/2016		131	96	102		
8/10/2016	151					
10/19/2016	148	126	90.8	106		
12/19/2016	174	127	81.6	102		
1/23/2017	177	151	99.8	101		
2/23/2017	181	149	93.9	99.8	94.4	
4/6/2017	144	132				
4/7/2017			89.8	96.9	86.4	
6/6/2017	138	124	89.1	102	78.8	
8/1/2017	145	130	95	103	76.5	
10/23/2017	149	128	89	104	70	
4/3/2018	136	124	94.6	98.6	71.7	
10/4/2018	120	115	87.3	90.2	65.9	
4/8/2019				100		
4/9/2019	126	118	88.4		68	
10/7/2019			91.2			
10/8/2019	142	129		104	73	
4/7/2020	133			100	65.8	
4/8/2020		111	79			
10/13/2020	142	128	85.8			
10/15/2020				94.5	65.5	
4/13/2021	132	121	84.7	91.7	66.6	
10/26/2021	130	122	83.3	89.8	67.8	
4/11/2022			80.7	89.3	61.5	
4/13/2022	124	113				
10/4/2022	124	117			63.7	
10/5/2022			84.2	91.8		
4/24/2023	119	114	85.4	87.1		
4/25/2023					60.8	
10/9/2023	128	129	84.4	92.1	64.5	
4/15/2024	131	123	88.4	90.3	63.4	
10/2/2024	130	126	83	89.4	61.3	
4/21/2025		120	78.6	85.3	57.4	534
4/23/2025	117					
7/21/2025						193

### Time Series



Constituent: Cadmium Analysis Run 11/12/2025 1:59 PM View: I-43 LF Detection Monitoring  
I-43 Ash Disposal Facility Client: SCS Engineers Data: I-43