Hixton Public Noticed Permit Fact Sheet

General Information

Permit Number	WI-0024236-12-0
Permittee	Village of Hixton, 145 E Main St P O Box 127, Hixton, WI 54635
Facility Address	Hixton Wastewater Treatment Facility, S. Sechlerville Rd, Hixton, WI
Permit Term	July 01, 2026 to June 30, 2031
Discharge Location	N1/2 of the SW1/4, Section 19, T22N R5W, Town of Hixton, Jackson County, WI
Receiving Water	groundwater in Upper Trempealeau River Watershed of the Buffalo - Trempealeau River Basin in Jackson County
Annual Average Design Flow	0.042 MGD
Industrial or Commercial Contributors	None
Plant Classification	A4 - Ponds, Lagoons and Natural Systems; SS - Sanitary Sewage Collection System
Approved Pretreatment Program?	N/A

Facility Description

The Village of Hixton owns and operates the Hixton Wastewater Treatment Plant to treat domestic wastewater. The plant consists of two stabilization ponds and two seepage cells with an average design flow of 0.042 million gallons per day (MGD). In 2025 the actual annual average flow received by the plant was 0.0366 MGD and the annual average flow discharged to the seepage cells was 0.0297 MGD. A groundwater monitoring system exists to monitor impacts to groundwater. No significant operational changes occurred during the last permit term.

Substantial Compliance Determination

Enforcement During Last Permit: No enforcement actions were taken during the last permit term.

After a desk top review of all discharge monitoring reports, and a site visit on 10/8/2025, this facility has been found to be in substantial compliance with their current permit.

Compliance determination made by Mike Chang on 10/10/2025.

Sample Point Descriptions

Sample Point Designation		
Sample Point Number	**Discharge Flow, Units, and Averaging Period**	**Sample Point Location, Waste Type/Sample Contents and Treatment Description (as applicable)**
701	0.0366 MGD 2025	Representative influent samples shall be collected at the influent manhole at the stabilization ponds.
001	0.0297 MGD 2025	Representative effluent samples shall be collected at the manhole prior to the seepage cells.
002	No Discharge 2025	Representative composite sludge samples shall be collected in 2027 and monitored for the parameters as listed in the table below. If the permittee plans to remove sludge, they shall monitor sludge for Lists 1, 2, 3 & 4 prior to land application. The Department shall be notified at least 30 days in advance of sludge removal so that appropriate monitoring forms can be provided. Approval of landspreading sites must be completed prior to sludge removal.

Sample Point Designation For Groundwater Monitoring Systems			
System	**Sample Pt Number**	**Well Name**	**Comments**
SEEPAGE CELL	801	MW-1	Up-gradient, Background
SEEPAGE CELL	802	MW-2	Down-gradient, Non-Point of Standard
SEEPAGE CELL	803	MW-3	Down-gradient, Non-Point of Standard

Permit Requirements

1 Influent – Monitoring Requirements

1.1 Sample Point Number: 701- INFLUENT MANHOLE AT PONDS

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Daily	Continuous	
BOD5, Total		mg/L	2/Month	Grab	
Suspended Solids, Total		mg/L	2/Month	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Nitrogen, Ammonia (NH3-N) Total		mg/L	Monthly	Grab	

Changes from Previous Permit:

Influent limitations and monitoring requirements were evaluated for this permit term and the only change is the influent flow monitoring frequency changed from continuous to daily for eDMR reporting purposes.

Explanation of Limits and Monitoring Requirements

Monitoring of influent flow, BOD5 and total suspended solids is required by s. NR 210.04(2), Wis. Adm. Code, to assess wastewater strengths and volumes and to demonstrate the percent removal requirements in s. NR 210.05, Wis. Adm. Code, and in the Standard Requirements section of the permit.

2 Land Treatment – Monitoring and Limitations

2.1 Sample Point Number: 001- EFFLUENT TO SEEPAGE CELLS

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Flow Rate		MGD	Daily	Total Daily	
BOD5, Total	Monthly Avg	50 mg/L	2/Month	Grab	
Suspended Solids, Total		mg/L	2/Month	Grab	
pH Field		su	Weekly	Grab	
Nitrogen, Total Kjeldahl		mg/L	Monthly	Grab	
Nitrogen, Organic Total		mg/L	Monthly	Calculated	
Nitrogen, Ammonia (NH3-N) Total		mg/L	Monthly	Grab	
Nitrogen, Nitrite + Nitrate Total		mg/L	Monthly	Grab	
Solids, Total Dissolved		mg/L	Monthly	Grab	
Chloride		mg/L	Monthly	Grab	
Nitrogen, Total		mg/L	Monthly	Calculated	

Changes from Previous Permit:

Effluent limitations and monitoring requirements were evaluated for this permit term and no changes were required in this permit section.

Explanation of Limits and Monitoring Requirements

All requirements for land treatment of municipal wastewater are determined in accordance with ch. NR 206, Wis. Adm. Code. All categorical limits are based on s. NR 206.08**(2)** Wis. Adm. Code. More information on the limitations can be found in the February 13, 2026 memo from Woody Myers to File titled "Groundwater Evaluation for Hixton Wastewater Treatment Facility, WI-0024236".

3 Groundwater – Monitoring and Limitations

3.1 Groundwater Monitoring System for SEEPAGE CELL GW SYSTEM

Location of Monitoring system: N ½ of the SW ¼ Section 19 T22N R05W town of Hixton, and west of South Sechlerville Road, Hixton, Jackson County, Wisconsin.

Groundwater Monitoring Well(s) to be Sampled: 801 (MW-1), 802 (MW-2), and 803 (MW-3)

Groundwater Monitoring Well(s) Used to Evaluate Background Groundwater Quality: 801 (MW-1)

Groundwater Monitoring Well(s) Used for Point of Standards Application: None

Parameter	Units	Preventative Action Limit	Enforcement Standard	Frequency
Depth To Groundwater	feet	N/A	N/A	Quarterly
Groundwater Elevation	feet MSL	N/A	N/A	Quarterly
Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	2.0	10	Quarterly
Chloride Dissolved	mg/L	125	250	Quarterly
Nitrogen, Ammonia Dissolved	mg/L	0.97	9.7	Quarterly
pH Field	su	6.8	N/A	Quarterly
Nitrogen, Organic Dissolved	mg/L	2.4	N/A	Quarterly
Solids, Total Dissolved	mg/L	580	N/A	Quarterly

Changes from Previous Permit:

Groundwater limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit: The alternate concentration limit (ACL) for nitrite + nitrate was rescinded based on background groundwater quality. An ACL was calculated, and the product of the variables was less than the s. NR 140.10, Wis. Adm. Code Table 1 PAL, so the Table 1 PAL of 2.0 mg/L has been applied. No other groundwater sampling limits changed.

Explanation of Limits and Monitoring Requirements

Groundwater limits and requirements are determined in accordance with ch. NR 140, Wis. Adm. Code. Indicator parameter Preventive Action Limit (PAL) values are established per s. NR 140.20, Wis. Adm. Code. Alternative Concentration Limits as allowed under s. NR 140.28, Wis. Adm. Code, are established on a case-by-case basis.

For more information, please refer to the February 13, 2026 memo from Woody Myers to File titled "Groundwater Evaluation for Hixton Wastewater Treatment Facility, WI-0024236".

4 Land Application - Monitoring and Limitations

Municipal Sludge Description						
Sample Point	**Sludge Class (A or B)**	**Sludge Type (Liquid or Cake)**	**Pathogen Reduction Method**	**Vector Attraction Method**	**Reuse Option**	**Amount Reused/Disposed (Dry Tons/Year)**
002	B	Liquid	Removal not expected		Land Application	Removal not expected
Does sludge management demonstrate compliance? Yes						
Is additional sludge storage required? No						
Is Radium-226 present in the water supply at a level greater than 2 pCi/liter? No						
Is a priority pollutant scan required? No Priority pollutant scans are required once every 10 years at facilities with design flows between 5 MGD and 40 MGD, and once every 5 years if design flow is greater than 40 MGD.						

4.1 Sample Point Number: 002- POND SLUDGE

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Solids, Total		Percent	Once	Composite	
Arsenic Dry Wt	Ceiling	75 mg/kg	Once	Composite	
Arsenic Dry Wt	High Quality	41 mg/kg	Once	Composite	
Cadmium Dry Wt	Ceiling	85 mg/kg	Once	Composite	
Cadmium Dry Wt	High Quality	39 mg/kg	Once	Composite	
Copper Dry Wt	Ceiling	4,300 mg/kg	Once	Composite	
Copper Dry Wt	High Quality	1,500 mg/kg	Once	Composite	
Lead Dry Wt	Ceiling	840 mg/kg	Once	Composite	
Lead Dry Wt	High Quality	300 mg/kg	Once	Composite	
Mercury Dry Wt	Ceiling	57 mg/kg	Once	Composite	

Monitoring Requirements and Limitations					
Parameter	**Limit Type**	**Limit and Units**	**Sample Frequency**	**Sample Type**	**Notes**
Mercury Dry Wt	High Quality	17 mg/kg	Once	Composite	
Molybdenum Dry Wt	Ceiling	75 mg/kg	Once	Composite	
Nickel Dry Wt	Ceiling	420 mg/kg	Once	Composite	
Nickel Dry Wt	High Quality	420 mg/kg	Once	Composite	
Selenium Dry Wt	Ceiling	100 mg/kg	Once	Composite	
Selenium Dry Wt	High Quality	100 mg/kg	Once	Composite	
Zinc Dry Wt	Ceiling	7,500 mg/kg	Once	Composite	
Zinc Dry Wt	High Quality	2,800 mg/kg	Once	Composite	
Nitrogen, Total Kjeldahl		Percent	Per Application	Composite	
Nitrogen, Ammonium (NH4-N) Total		Percent	Per Application	Composite	
Phosphorus, Total		Percent	Per Application	Composite	
Phosphorus, Water Extractable		% of Tot P	Per Application	Composite	
Potassium, Total Recoverable		Percent	Per Application	Composite	
PFOA + PFOS		ug/kg	Once	Calculated	Report the sum of PFOA and PFOS. See PFAS Permit Sections for more information.
PFAS Dry Wt			Once	Grab	Perfluoroalkyl and Polyfluoroalkyl Substances based on updated DNR PFAS List. See PFAS Permit Sections for more information.

4.1.1 Changes from Previous Permit:

Sludge limitations and monitoring requirements were evaluated for this permit term and the following changes were made from the previous permit:

List 2 Nutrient monitoring – Monitoring for list 2 (nutrients) is highly recommended at the same time as the monitoring of List 1 (metals) in year 2 of the permit. Results will assist in the determination of the acres needed for land application of sludge should it be necessary.

Change in form submittal – In prior permit reissuances when it has been noted in the application that sludge would not be removed during the permit term, the department required sampling during the second year of the permit term and the sludge characteristic report (3400-049) would be generated only during that year. Due to moving to electronic submittal of forms via Switchboard, forms 3400-049 ("Characteristics Report"), 3400-052 ("Other Methods of Disposal") and 3400-055 ("Annual Land Application") will now be generated by the department and the permittee will be required to submit all three reports each year of the permit term. This change was adopted to provide the permittee flexibility because many lagoon desludging projects can be unexpected, are delayed or staggered over multiple years. Additionally, it is used to officially report that no land application of sludge has occurred, and annual submittal of the forms is required per the standard requirements section.

PFAS – Monitoring for PFAS has been added once during the permit term pursuant s. NR 204.06(2)(b)9., Wis. Adm. Code.

4.1.2 Explanation of Limits and Monitoring Requirements

Requirements for disposal, including land application of municipal sludge, are determined in accordance with ch. NR 204, Wis. Adm. Code. Ceiling and high-quality limits for metals in sludge are specified in s. NR 204.07(5). Requirements for pathogens are specified in s. NR 204.07(6) and in s. NR 204.07 (7) for vector attraction requirements. Limitations for PCBs are addressed in s. NR 204.07(3)(k).

PFAS- The presence and fate of PFAS in municipal and industrial sludges is an emerging public health concern. EPA has developed a draft risk assessment to determine future land application rates and released this risk assessment in January of 2025. The department is evaluating this new information. Until a decision is made, the "Interim Strategy for Land Application of Biosolids and Industrial Sludges Containing PFAS" should be followed

Collecting sludge data on PFAS concentrations from a wide range of wastewater treatment facilities will help protect public health from exposure to elevated levels of PFAS and determine the department's implementation of EPA's recommendations. To quantitate this risk, PFAS sampling has been included in this WPDES permit pursuant to ss. NR 214.18(5)(b) and NR 204.06(2)(b)9., Wis. Adm. Code.

5 Schedules

5.1 Sludge Management Plan

Required Action	Due Date
Land Application Management Plan Submittal: The permittee shall submit a management plan for approval if removal of sludge will occur during this permit term. The plan shall demonstrate compliance with ch. NR 204, Wis. Adm. Code and at minimum address 1) How and where is sludge sampled; 2) Available sludge storage details and location(s); 3) How will the sludge be removed with details on volume, characterization and how will the treatment plant continue to function during the drawdown; 4) Describe the type of transportation and spreading vehicles and loading and unloading practices; 5) Identify approved land application sites, apply for needed sites, site limitations, total acres needed and vegetative cover management; 6) Specify record keeping procedures including site loading; 7) Address contingency plans for adverse weather and odor/nuisance abatement; and 8) Include any other pertinent information such as other disposal options that may be used or specifications of any pretreatment processes Once approved, all sludge management activities shall be conducted in accordance with the plan. Any changes to the plan must be approved by the Department prior to implementing the changes. No	

desludging may occur unless approval from the Department is obtained. Daily logs shall be kept that record where the sludge has been disposed. The plan is due at least 60 days prior to desludging.	

Explanation of Schedule: An up-to-date Land Application Management Plan is required that documents how the permittee will manage the land application of biosolids consistent with ch. NR 204, Wis. Adm. Code

5.2 Land Treatment Management Plan

A management plan is required for the land treatment system.

Required Action	Due Date
Land Treatment Management Plan Submittal: Submit a management plan to optimize the land treatment system performance and demonstrate compliance with ch. NR 206, Wis. Adm. Code. The land treatment system shall be operated in accordance with the approved management plan.	09/30/2026

Explanation of schedule: The permittee is required to have an updated and approved management plan per NR 206.07(2)(h)1 Wis. Adm. Code.

Other Comments

None

Attachments

NR 140 Groundwater Evaluation Report (referenced above)

Justification Of Any Waivers From Permit Application Requirements

No waivers requested or granted as part of this permit reissuance

Prepared By: Holly Heldstab, Wastewater Specialist **Date:** 03/03/2026

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: February 13, 2026

TO: File

FROM: Woody Myers - WCR

SUBJECT: Groundwater Evaluation for Hixton Wastewater Treatment Facility, WI-0024236

Site Information

The Hixton Wastewater Treatment Facility (WWTF) is located in the N ½ of the SW ¼ Section 19 T22N R05W town of Hixton, and west of South Sechlerville Road, Hixton, Jackson County, Wisconsin. This is a municipal facility consisting of two stabilization ponds and two seepage cells/absorption ponds.

Land Disposal Effluent & Groundwater Evaluation Summary

Table 1 Land Disposal Outfall Sampling Point Parameters and Limits
Outfall 001 Absorption Ponds

Parameter	Current Permit WI-0024236-11		Proposed Permit WI-0024236-12	
	Limits and Units	Limit Type	Limits and Units	Limit Type
Flow Rate	- MGD		- MGD	
BOD_5	50 mg/l	Monthly Avg	50 mg/l	Monthly Avg
Total Suspended Solids	- mg/l		- mg/l	
pH, Field	- su		- su	
Nitrogen, Total Kjeldahl	- mg/l		- mg/l	
Nitrogen, Organic	- mg/l		- mg/l	
Nitrogen. Ammonia	- mg/l		- mg/l	
Nitrogen, Nitrite + Nitrate	- mg/l		- mg/l	
Total Dissolved Solids	- mg/l		- mg/l	
Chloride	- mg/l		- mg/l	
Nitrogen, Total	- mg/l		- mg/l	

No proposed permit changes

Table 2 Monitoring Wells

Well	Current Permit WI-0024236-11		Proposed Permit WI-0024236-12	
	Well Location	Well Designation	Well Location	Well Designation
801 (MW801)	Up-gradient	Background	Up-gradient	Background
802 (MW802)	Down-gradient	Non-Point of Standard	Down-gradient	Non-Point of Standard
803 (MW803)	Down-gradient	Non-Point of Standard	Down-gradient	Non-Point of Standard

No proposed permit changes

-Table 3 Groundwater Quality Standards

Parameter	Current Permit WI-0024236-11		Proposed WI-0024236-12	
	PAL	ES	PAL	ES
Depth to Groundwater	N/A	N/A	N/A	N/A
Groundwater Elevation	N/A	N/A	N/A	N/A
Nitrogen, Nitrite + Nitrate	3.0 mg/l (ACL)	10.0 mg/l	***2.0 mg/l**	10.0 mg/l
Chloride	125 mg/l	250 mg/l	125 mg/l	250 mg/l
Nitrogen, Ammonia	0.97 mg/l	9.7 mg/l	0.97 mg/l	9.7 mg/l
pH, Field	4.8-6.8 su	N/A	4.8-6.8 su	N/A
Nitrogen, Organic	2.4 mg/l	N/A	2.4 mg/l	N/A
Total Dissolved Solids	580 mg/l	N/A	580 mg/l	N/A

* Proposed permit changes

Geology

This facility is in close proximity to the boundary of the Eau Claire formation and the Mount Simon formation. The Eau Claire is comprised of a subangular poorly sorted fine-grained sandstone. Glauconite deposits are common with flaggy beds separated by green shale and the Mount Simon is comprised of sandstone, conglomerate and shale (*Bedrock Geology of Wisconsin, Regional Map Series West-Central Sheet*, Wisconsin Geological and Natural History Survey (WGNHS), 1988). Bedrock was not encountered during installation of the groundwater monitoring wells but is anticipated to be between 75 and 100 feet below ground surface (bgs) (*Depth to Bedrock in Wisconsin*, Map, WGNHS 1973) . Based on the boring logs from the groundwater monitoring well installation the regolith consists of fluvial deposits ranging in size from coarse sand to silt, however the majority is medium to fine grained sand. Surface soils consist of Impact Sand and Sechler loam (USDA Web Soil Survey).

Hydrogeology

Calculated groundwater elevation ranges between 902 and 910 feet above mean sea level (msl). Depth to groundwater was reported to be between 20 and 30 feet bgs. Groundwater flow direction was calculated to, with slight variation, be predominantly to the north. There is some variation to the west and to the east of north. This variation is likely an influence from the water elevation of the Trempealeau River. Regional groundwater is to the northwest in this area of Jackson County (*Water Table Elevation,* map WGNHS, 1981). The Trempealeau River is approximately 900 feet to the north and west of the absorption ponds and flows from the northeast to the southwest. There are six wells (municipal, other than municipal, private and high-capacity) within a 1,500-foot range of this facility's groundwater discharge.

Land Disposal Effluent Quality and Loading Rates

The following table is the average flow (hydraulic loading), total nitrate, chloride and BOD_5 loading summations for the land disposal system.

Table 4 Land Treatment Disposal Loading Averages

Year	Flow (MGD)	Nitrogen (mg/l)	Chloride (mg/l)	BOD5 (mg/l)
2025	0.030	21.78	75	21.8
2024	0.034	17.61	70	19.5
2023	0.036	20.04	68	17.0
2022	0.030	21.64	77	18.3

Groundwater Monitoring System and Sampling Frequency

All parameters are analyzed for the dissolved phase in groundwater. Established groundwater quality standards are found in Table 1 Public Health Groundwater Quality Standards s. NR 140.10 Wis. Adm. Code, and Table 2 Public Welfare Groundwater Standards s. NR 140.12 Wis. Adm. Code. The thresholds of these standards are the Enforcement Standard (ES) and the Preventative Action Limit (PAL).

Table 5 Groundwater Monitoring Well Data

Sample Point	Well Name	Elevation (feet above msl)				Length (feet)		Well Type
		Casing Top	Ground Surface	Screen Top	Screen Bottom	Screen Length	Well Depth	
801	MW-1	933.34	931.10	911.6	899.6	10.0	33.7	WT
802	MW-2	925.36	922.90	907.3	897.3	10.0	28.0	WT
803	MW-3	925.96	923.50	906.5	896.5	10.0	29.7	WT

All measurements in feet
WT-Water table Observation P-Piezometer O-Other

Groundwater sampling results from this facility have been analyzed for each well to evaluate trends of the regulated compounds in groundwater and to calculate PALs for s. NR 140.22 Wis. Adm. Code Indicator Parameters and to evaluate potential exemptions under s. NR 140.28 Wis. Adm. Code. The groundwater was evaluated by looking at the groundwater data from February 3, 2021 – November 19, 2025.

Background Groundwater Quality

The background groundwater quality and the trends for the results were relatively low compared to statewide background groundwater quality and the trends were stable with only minor fluctuations.

Down-Gradient Groundwater Quality

The down-gradient groundwater samples for nitrite + nitrate and ammonia were the only parameters that exceeded the PALs, ESs or ACLs. These exceedances were observed in groundwater monitoring wells 802 and 803. The exceedances of nitrite + nitrate were consistent in occurrence, sporadic in magnitude (some in excess of the ES) and do not indicate a clear trend. See Figure 1. The exceedances of ammonia were only observed in the 2021 sampling data, no exceedances have been observed since that year.

Land Disposal System Impact to Groundwater Quality

Concentrations and trends in the groundwater monitoring data were compared to the loading data for the land disposal system. There is not a clear correlation between the effluent loading levels and the groundwater monitoring results.

Proposed Groundwater Monitoring Requirements

Table 6 Groundwater Quality Sampling Frequency and Limits Permit WI-0024236-12
Outfall 001 (Absorption Ponds)

Sample Point	Well Name	Sample Frequency	Well Designation
801	MW-1	Quarterly	Background
802	MW-2	Quarterly	Non-Point of Standard
803	MW-3	Quarterly	Non-Point of Standard
Parameter	PAL	ES	Source
Depth to Groundwater	N/A	N/A	Measured
Groundwater Elevation	N/A	N/A	Measured
Nitrogen, Nitrite + Nitrate	***2.0 mg/l**	10.0 mg/l	NR 140 Table 1
Chloride	125 mg/l	250 mg/l	NR 140 Table 2
Nitrogen, Ammonia	0.97 mg/l	9.7 mg/l	NR 140 Table 1
pH, Field	4.8-6.8 su	N/A	Calculated
Nitrogen, Organic	2.4 mg/l	N/A	Calculated
Total Dissolved Solids	580 mg/l	N/A	Calculated

* Proposed permit changes

Indicator Parameter PALs

Indicator Parameter PALs are developed following the procedures described in s. NR 140.20(2), Wis. Adm. Code. Indicator parameters do not have Enforcement Standards. The PAL for an indicator parameter is a benchmark for evaluating site specific trends. When significant increases in the trends are observed, the facility and the department's response action under s. NR 140.24 Wis. Adm. Code should be to investigate the source of the compound. The following equations were used to calculate the indicator parameter PALs:

$$\sum [\text{Mean of the background groundwater quality} + \text{Minimum Increase (NR 140.20 Table 3)}] = \text{PAL}$$

And for pH:

$$\sum [\text{Mean of the background groundwater quality} \pm 1 \text{ su}] = \text{upper and lower PAL}$$

Alternative Concentration Limits

Alternative concentration Limits (ACLs) can be developed and provided for a groundwater monitoring system utilizing the procedures described in s. NR 140.28, Wis. Adm. Code. ACLs were calculated using the following equation:

$$\sum [\text{Mean of the background groundwater quality} + (2) \times \text{Standard Deviation of Results}] = \text{ACL}$$

Conclusions

There are no recommended changes in the land disposal outfall (effluent) sampling point 001 parameters or associated limits.

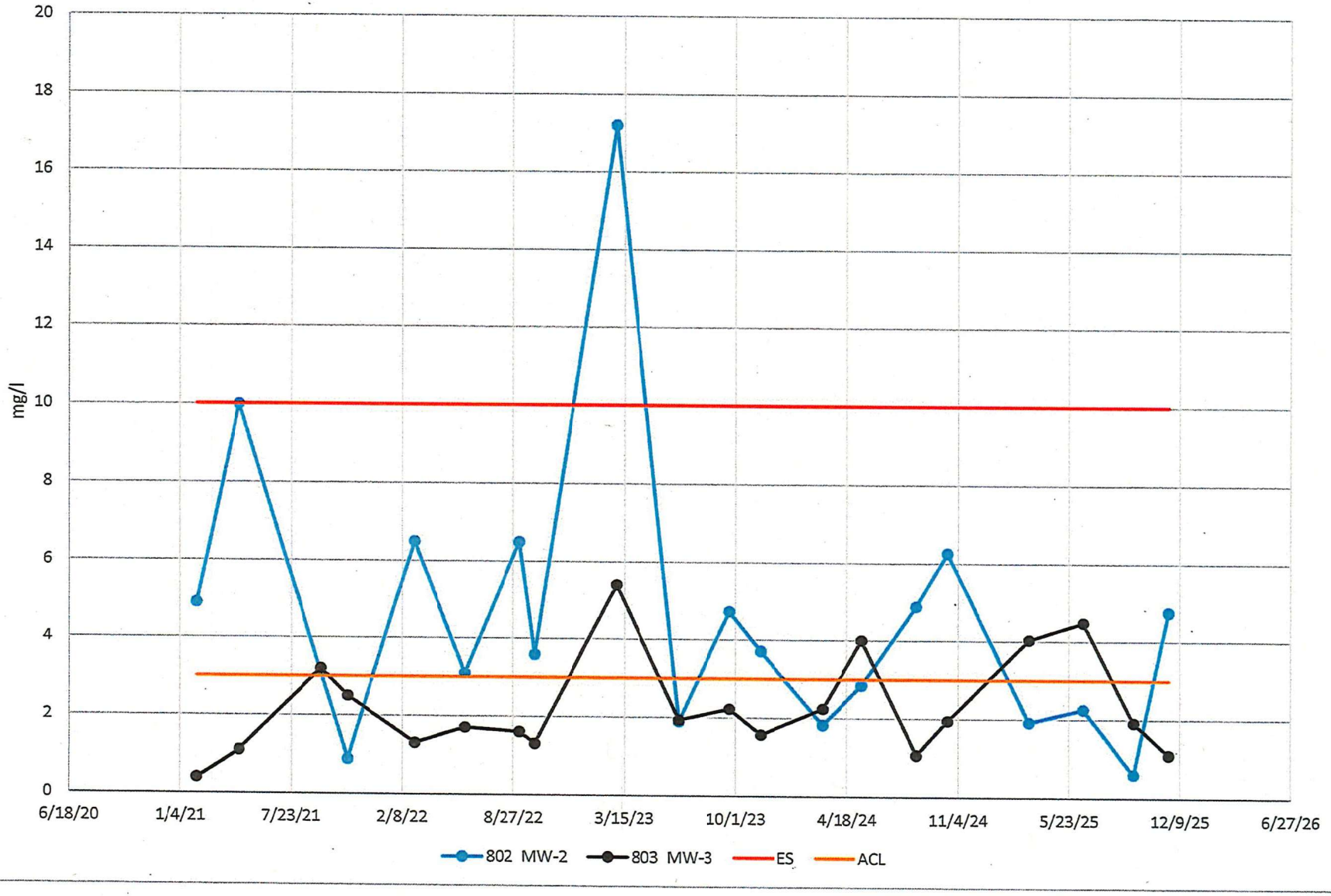
The ACL for nitrite + nitrate has been rescinded based on background groundwater quality. An ACL was calculated, and the product of the variables was less than the s. NR 140.10, Wis. Adm. Code Table 1 PAL, so the Table 1 PAL of 2.0 mg/l will be applied. No other groundwater sampling limits changed.

There were consistent ACL and a few ES exceedances for nitrite + nitrate in the down-gradient groundwater monitoring wells 802 and 803. Both of these wells are non-point of standard wells therefore a s. NR 140.24, Wis. Adm. Code response action is not required. However, it would be advisable for the facility to look at optimizing the load rest cycles for the absorption ponds.

Compliance Schedule Recommendations

The s. NR 206.07 (2)(h) 1. Wis. Adm. Code requires a land disposal management plan for facilities with land disposal systems. The facility should review their plan within 90 days of permit reissuance and any revisions should be submitted to the department for approval.

Figure 1
Nitrite + Nitrate



Apendix 1

The preceding results were provided by the facility or their agent. The mean and standard deviation were calculated electronically.

well	param	unit	date	code	result
801 MW-1	Chloride Dissolved	mg/L	02/03/2021	<	2
801 MW-1	Chloride Dissolved	mg/L	04/21/2021		2
801 MW-1	Chloride Dissolved	mg/L	09/15/2021	<	2
801 MW-1	Chloride Dissolved	mg/L	11/02/2021		6
801 MW-1	Chloride Dissolved	mg/L	03/02/2022		3
801 MW-1	Chloride Dissolved	mg/L	06/01/2022		10
801 MW-1	Chloride Dissolved	mg/L	09/07/2022		2
801 MW-1	Chloride Dissolved	mg/L	10/05/2022		7
801 MW-1	Chloride Dissolved	mg/L	03/01/2023	<	2
801 MW-1	Chloride Dissolved	mg/L	06/21/2023	<	2
801 MW-1	Chloride Dissolved	mg/L	09/20/2023	<	2
801 MW-1	Chloride Dissolved	mg/L	11/15/2023	<	2
801 MW-1	Chloride Dissolved	mg/L	03/06/2024		4
801 MW-1	Chloride Dissolved	mg/L	05/15/2024	<	2
801 MW-1	Chloride Dissolved	mg/L	08/21/2024	<	2
801 MW-1	Chloride Dissolved	mg/L	10/16/2024	<	2
801 MW-1	Chloride Dissolved	mg/L	03/12/2025	<	2
801 MW-1	Chloride Dissolved	mg/L	06/18/2025		3
801 MW-1	Chloride Dissolved	mg/L	09/17/2025		6
801 MW-1	Chloride Dissolved	mg/L	11/19/2025	<	2
				Mean	3.25
				St. Dev	2.188035649
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	02/03/2021	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	04/21/2021	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/15/2021	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	11/02/2021	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	03/02/2022	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/01/2022	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/07/2022	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	10/05/2022	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	03/01/2023	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/21/2023	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/20/2023	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	11/15/2023	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	03/06/2024	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	05/15/2024	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	08/21/2024	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	10/16/2024	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	03/12/2025	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/18/2025	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/17/2025	<	0.1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	11/19/2025	<	0.1
				Mean	0.1
				St. Dev	0

well		param	unit	date	code	result
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/03/2021		0.4
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	04/21/2021		0.4
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2021		0.7
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/02/2021		1.6
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/02/2022		0.6
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/01/2022		0.7
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/07/2022		1
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/05/2022		1
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/01/2023		0.8
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2023		1.48
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2023		0.64
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/15/2023		0.85
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/06/2024		0.77
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/15/2024		1.04
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/21/2024		1.4
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/16/2024		0.87
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2025		1.08
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/18/2025		0.92
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2025		1.04
801	MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/19/2025		1.12
					Mean	0.9205
					St. Dev	0.314348135

801	MW-1	Nitrogen, Organic Dissolved	mg/L	02/03/2021	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	04/21/2021	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	09/15/2021	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	11/02/2021	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	03/02/2022	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	06/01/2022	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	09/07/2022		0
801	MW-1	Nitrogen, Organic Dissolved	mg/L	10/05/2022	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	03/01/2023	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	06/21/2023	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	09/20/2023	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	11/15/2023	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	03/06/2024	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	05/15/2024	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	08/21/2024	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	10/16/2024	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	03/12/2025	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	06/18/2025	<	0.5
801	MW-1	Nitrogen, Organic Dissolved	mg/L	09/17/2025		0.1
801	MW-1	Nitrogen, Organic Dissolved	mg/L	11/19/2025		0.1
					Mean	0.435

well	param	unit	date	code	result
801 MW-1	pH Field	su	02/03/2021		5.99
801 MW-1	pH Field	su	04/21/2021		6.01
801 MW-1	pH Field	su	09/15/2021		5.79
801 MW-1	pH Field	su	11/02/2021		5.58
801 MW-1	pH Field	su	03/02/2022		5.91
801 MW-1	pH Field	su	06/01/2022		5.75
801 MW-1	pH Field	su	09/07/2022		6.15
801 MW-1	pH Field	su	10/05/2022		5.62
801 MW-1	pH Field	su	03/01/2023		5.94
801 MW-1	pH Field	su	06/21/2023		6.09
801 MW-1	pH Field	su	09/20/2023		5.98
801 MW-1	pH Field	su	11/15/2023		5.54
801 MW-1	pH Field	su	03/06/2024		5.66
801 MW-1	pH Field	su	05/15/2024		5.82
801 MW-1	pH Field	su	08/21/2024		6
801 MW-1	pH Field	su	10/16/2024		6.11
801 MW-1	pH Field	su	03/12/2025		5.84
801 MW-1	pH Field	su	06/18/2025		5.59
801 MW-1	pH Field	su	09/17/2025		5.42
801 MW-1	pH Field	su	11/19/2025		6
				Mean	5.8395

801 MW-1	Solids, Total Dissolved	mg/L	02/03/2021		23
801 MW-1	Solids, Total Dissolved	mg/L	04/21/2021		25
801 MW-1	Solids, Total Dissolved	mg/L	09/15/2021		28
801 MW-1	Solids, Total Dissolved	mg/L	11/02/2021		27
801 MW-1	Solids, Total Dissolved	mg/L	03/02/2022		39
801 MW-1	Solids, Total Dissolved	mg/L	06/01/2022		45
801 MW-1	Solids, Total Dissolved	mg/L	09/07/2022		33
801 MW-1	Solids, Total Dissolved	mg/L	10/05/2022		42
801 MW-1	Solids, Total Dissolved	mg/L	03/01/2023		33
801 MW-1	Solids, Total Dissolved	mg/L	06/21/2023		35
801 MW-1	Solids, Total Dissolved	mg/L	09/20/2023		15
801 MW-1	Solids, Total Dissolved	mg/L	11/15/2023		30
801 MW-1	Solids, Total Dissolved	mg/L	03/06/2024		30
801 MW-1	Solids, Total Dissolved	mg/L	05/15/2024		30
801 MW-1	Solids, Total Dissolved	mg/L	08/21/2024		39
801 MW-1	Solids, Total Dissolved	mg/L	10/16/2024		7
801 MW-1	Solids, Total Dissolved	mg/L	03/12/2025		22
801 MW-1	Solids, Total Dissolved	mg/L	06/18/2025		15
801 MW-1	Solids, Total Dissolved	mg/L	09/17/2025		0.1
801 MW-1	Solids, Total Dissolved	mg/L	11/19/2025		13
				Mean	26.555

well	param	unit	date	code	result
802 MW-2	Chloride Dissolved	mg/L	02/03/2021		53
802 MW-2	Chloride Dissolved	mg/L	04/21/2021		65
802 MW-2	Chloride Dissolved	mg/L	09/15/2021		63
802 MW-2	Chloride Dissolved	mg/L	11/02/2021		30
802 MW-2	Chloride Dissolved	mg/L	03/02/2022		44
802 MW-2	Chloride Dissolved	mg/L	06/01/2022		42
802 MW-2	Chloride Dissolved	mg/L	09/07/2022		45
802 MW-2	Chloride Dissolved	mg/L	10/05/2022		26
802 MW-2	Chloride Dissolved	mg/L	03/01/2023		30
802 MW-2	Chloride Dissolved	mg/L	06/21/2023		15
802 MW-2	Chloride Dissolved	mg/L	09/20/2023		24
802 MW-2	Chloride Dissolved	mg/L	11/15/2023		16
802 MW-2	Chloride Dissolved	mg/L	03/06/2024		25
802 MW-2	Chloride Dissolved	mg/L	05/15/2024		33
802 MW-2	Chloride Dissolved	mg/L	08/21/2024		21
802 MW-2	Chloride Dissolved	mg/L	10/16/2024		13
802 MW-2	Chloride Dissolved	mg/L	03/12/2025		47
802 MW-2	Chloride Dissolved	mg/L	06/18/2025		50
802 MW-2	Chloride Dissolved	mg/L	09/17/2025		23
802 MW-2	Chloride Dissolved	mg/L	11/19/2025		16
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	02/03/2021	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	04/21/2021	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/15/2021		2.3
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	11/02/2021		2.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/02/2022		0.8
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/01/2022	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/07/2022	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	10/05/2022	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/01/2023	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/21/2023	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/20/2023	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	11/15/2023	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/06/2024	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	05/15/2024	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	08/21/2024	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	10/16/2024	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/12/2025	<	0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/18/2025		0.7
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/17/2025		0.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	11/19/2025		0.2

well		param	unit	date	code	result
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/03/2021		4.9
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	04/21/2021		10
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2021		3.1
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/02/2021		0.9
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/02/2022		6.5
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/01/2022		3.1
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/07/2022		6.5
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/05/2022		3.6
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/01/2023		17.2
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2023		1.9
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2023		4.73
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/15/2023		3.72
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/06/2024		1.83
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/15/2024		2.85
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/21/2024		4.88
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/16/2024		6.26
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2025		1.92
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/18/2025		2.26
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2025		0.62
802	MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/19/2025		4.75
802	MW-2	Nitrogen, Organic Dissolved	mg/L	02/03/2021		1.1
802	MW-2	Nitrogen, Organic Dissolved	mg/L	04/21/2021		0.9
802	MW-2	Nitrogen, Organic Dissolved	mg/L	09/15/2021		1.3
802	MW-2	Nitrogen, Organic Dissolved	mg/L	11/02/2021		1.1
802	MW-2	Nitrogen, Organic Dissolved	mg/L	03/02/2022		1.3
802	MW-2	Nitrogen, Organic Dissolved	mg/L	06/01/2022		1
802	MW-2	Nitrogen, Organic Dissolved	mg/L	09/07/2022	<	0.5
802	MW-2	Nitrogen, Organic Dissolved	mg/L	10/05/2022		0.9
802	MW-2	Nitrogen, Organic Dissolved	mg/L	03/01/2023		1.4
802	MW-2	Nitrogen, Organic Dissolved	mg/L	06/21/2023	<	0.5
802	MW-2	Nitrogen, Organic Dissolved	mg/L	09/20/2023		1
802	MW-2	Nitrogen, Organic Dissolved	mg/L	11/15/2023		0.6
802	MW-2	Nitrogen, Organic Dissolved	mg/L	03/06/2024		0.5
802	MW-2	Nitrogen, Organic Dissolved	mg/L	05/15/2024		0.8
802	MW-2	Nitrogen, Organic Dissolved	mg/L	08/21/2024		0.7
802	MW-2	Nitrogen, Organic Dissolved	mg/L	10/16/2024		1.1
802	MW-2	Nitrogen, Organic Dissolved	mg/L	03/12/2025		0.6
802	MW-2	Nitrogen, Organic Dissolved	mg/L	06/18/2025		0.6
802	MW-2	Nitrogen, Organic Dissolved	mg/L	09/17/2025		0.5
802	MW-2	Nitrogen; Organic Dissolved	mg/L	11/19/2025		0.4

well	param	unit	date	code	result
802 MW-2	pH Field	su	02/03/2021		6.66
802 MW-2	pH Field	su	04/21/2021		6.46
802 MW-2	pH Field	su	09/15/2021		6.43
802 MW-2	pH Field	su	11/02/2021		6.65
802 MW-2	pH Field	su	03/02/2022		6.6
802 MW-2	pH Field	su	06/01/2022		6.58
802 MW-2	pH Field	su	09/07/2022		6.73
802 MW-2	pH Field	su	10/05/2022		6.69
802 MW-2	pH Field	su	03/01/2023		6.65
802 MW-2	pH Field	su	06/21/2023		6.67
802 MW-2	pH Field	su	09/20/2023		6.7
802 MW-2	pH Field	su	11/15/2023		6.34
802 MW-2	pH Field	su	03/06/2024		6.48
802 MW-2	pH Field	su	05/15/2024		6.59
802 MW-2	pH Field	su	08/21/2024		6.46
802 MW-2	pH Field	su	10/16/2024		6.62
802 MW-2	pH Field	su	03/12/2025		6.5
802 MW-2	pH Field	su	06/18/2025		6.49
802 MW-2	pH Field	su	09/17/2025		6.25
802 MW-2	pH Field	su	11/19/2025		6.6

802 MW-2	Solids, Total Dissolved	mg/L	02/03/2021		148
802 MW-2	Solids, Total Dissolved	mg/L	04/21/2021		224
802 MW-2	Solids, Total Dissolved	mg/L	09/15/2021		163
802 MW-2	Solids, Total Dissolved	mg/L	11/02/2021		87
802 MW-2	Solids, Total Dissolved	mg/L	03/02/2022		159
802 MW-2	Solids, Total Dissolved	mg/L	06/01/2022		167
802 MW-2	Solids, Total Dissolved	mg/L	09/07/2022		155
802 MW-2	Solids, Total Dissolved	mg/L	10/05/2022		117
802 MW-2	Solids, Total Dissolved	mg/L	03/01/2023		197
802 MW-2	Solids, Total Dissolved	mg/L	06/21/2023		94
802 MW-2	Solids, Total Dissolved	mg/L	09/20/2023		113
802 MW-2	Solids, Total Dissolved	mg/L	11/15/2023		89
802 MW-2	Solids, Total Dissolved	mg/L	03/06/2024		91
802 MW-2	Solids, Total Dissolved	mg/L	05/15/2024		123
802 MW-2	Solids, Total Dissolved	mg/L	08/21/2024		109
802 MW-2	Solids, Total Dissolved	mg/L	10/16/2024		88
802 MW-2	Solids, Total Dissolved	mg/L	03/12/2025		153
802 MW-2	Solids, Total Dissolved	mg/L	06/18/2025		154
802 MW-2	Solids, Total Dissolved	mg/L	09/17/2025		90
802 MW-2	Solids, Total Dissolved	mg/L	11/19/2025		88

well	param	unit	date	code	result
803 MW-3	Chloride Dissolved	mg/L	02/03/2021		27
803 MW-3	Chloride Dissolved	mg/L	04/21/2021		11
803 MW-3	Chloride Dissolved	mg/L	09/15/2021		7
803 MW-3	Chloride Dissolved	mg/L	11/02/2021		8
803 MW-3	Chloride Dissolved	mg/L	03/02/2022		10
803 MW-3	Chloride Dissolved	mg/L	06/01/2022		10
803 MW-3	Chloride Dissolved	mg/L	09/07/2022		4
803 MW-3	Chloride Dissolved	mg/L	10/05/2022		4
803 MW-3	Chloride Dissolved	mg/L	03/01/2023		25
803 MW-3	Chloride Dissolved	mg/L	06/21/2023		7
803 MW-3	Chloride Dissolved	mg/L	09/20/2023		13
803 MW-3	Chloride Dissolved	mg/L	11/15/2023		6
803 MW-3	Chloride Dissolved	mg/L	03/06/2024		12
803 MW-3	Chloride Dissolved	mg/L	05/15/2024		25
803 MW-3	Chloride Dissolved	mg/L	08/21/2024		4
803 MW-3	Chloride Dissolved	mg/L	10/16/2024		15
803 MW-3	Chloride Dissolved	mg/L	03/12/2025		20
803 MW-3	Chloride Dissolved	mg/L	06/18/2025		22
803 MW-3	Chloride Dissolved	mg/L	09/17/2025		16
803 MW-3	Chloride Dissolved	mg/L	11/19/2025		3

803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	02/03/2021		1.3
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	04/21/2021		0.6
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/15/2021		2.3
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	11/02/2021		0.2
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	03/02/2022	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/01/2022	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/07/2022		1.6
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	10/05/2022	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	03/01/2023	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/21/2023	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/20/2023	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	11/15/2023	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	03/06/2024	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	05/15/2024	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	08/21/2024	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	10/16/2024	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	03/12/2025	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/18/2025	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/17/2025	<	0.1
803 MW-3	Nitrogen, Ammonia Dissolved	mg/L	11/19/2025	<	0.1

well	param	unit	date	code	result
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/03/2021		0.4
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	04/21/2021		1.1
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/15/2021		3.2
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/02/2021		2.5
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/02/2022		1.3
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/01/2022		1.7
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/07/2022		1.6
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/05/2022		1.3
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/01/2023		5.4
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2023		1.93
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/20/2023		2.22
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/15/2023		1.56
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/06/2024		2.24
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/15/2024		4
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/21/2024		1.07
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/16/2024		1.94
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/12/2025		4.03
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/18/2025		4.47
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2025		1.91
803 MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	11/19/2025		1.1
803 MW-3	Nitrogen, Organic Dissolved	mg/L	02/03/2021	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	04/21/2021		0.6
803 MW-3	Nitrogen, Organic Dissolved	mg/L	09/15/2021		0.6
803 MW-3	Nitrogen, Organic Dissolved	mg/L	11/02/2021		3
803 MW-3	Nitrogen, Organic Dissolved	mg/L	03/02/2022	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	06/01/2022	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	09/07/2022	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	10/05/2022	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	03/01/2023		0.7
803 MW-3	Nitrogen, Organic Dissolved	mg/L	06/21/2023	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	09/20/2023	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	11/15/2023	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	03/06/2024		0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	05/15/2024		0.7
803 MW-3	Nitrogen, Organic Dissolved	mg/L	08/21/2024	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	10/16/2024	<	0.5
803 MW-3	Nitrogen, Organic Dissolved	mg/L	03/12/2025		0.7
803 MW-3	Nitrogen, Organic Dissolved	mg/L	06/18/2025		0.7
803 MW-3	Nitrogen, Organic Dissolved	mg/L	09/17/2025		0.3
803 MW-3	Nitrogen, Organic Dissolved	mg/L	11/19/2025		0.2

well	param	unit	date	code	result
803 MW-3	pH Field	su	02/03/2021		6.69
803 MW-3	pH Field	su	04/21/2021		6.99
803 MW-3	pH Field	su	09/15/2021		6.38
803 MW-3	pH Field	su	11/02/2021		6.42
803 MW-3	pH Field	su	03/02/2022		6.78
803 MW-3	pH Field	su	06/01/2022		6.69
803 MW-3	pH Field	su	09/07/2022		6.52
803 MW-3	pH Field	su	10/05/2022		6.67
803 MW-3	pH Field	su	03/01/2023		6.71
803 MW-3	pH Field	su	06/21/2023		6.27
803 MW-3	pH Field	su	09/20/2023		6.52
803 MW-3	pH Field	su	11/15/2023		6.04
803 MW-3	pH Field	su	03/06/2024		6.32
803 MW-3	pH Field	su	05/15/2024		6.39
803 MW-3	pH Field	su	08/21/2024		6.01
803 MW-3	pH Field	su	10/16/2024		6.34
803 MW-3	pH Field	su	03/12/2025		6.34
803 MW-3	pH Field	su	06/18/2025		6.24
803 MW-3	pH Field	su	09/17/2025		6.12
803 MW-3	pH Field	su	11/19/2025		6.22

803 MW-3	Solids, Total Dissolved	mg/L	02/03/2021		60
803 MW-3	Solids, Total Dissolved	mg/L	04/21/2021		50
803 MW-3	Solids, Total Dissolved	mg/L	09/15/2021		41
803 MW-3	Solids, Total Dissolved	mg/L	11/02/2021		32
803 MW-3	Solids, Total Dissolved	mg/L	03/02/2022		54
803 MW-3	Solids, Total Dissolved	mg/L	06/01/2022		51
803 MW-3	Solids, Total Dissolved	mg/L	09/07/2022		26
803 MW-3	Solids, Total Dissolved	mg/L	10/05/2022		42
803 MW-3	Solids, Total Dissolved	mg/L	03/01/2023		102
803 MW-3	Solids, Total Dissolved	mg/L	06/21/2023		44
803 MW-3	Solids, Total Dissolved	mg/L	09/20/2023		58
803 MW-3	Solids, Total Dissolved	mg/L	11/15/2023		39
803 MW-3	Solids, Total Dissolved	mg/L	03/06/2024		41
803 MW-3	Solids, Total Dissolved	mg/L	05/15/2024		98
803 MW-3	Solids, Total Dissolved	mg/L	08/21/2024		38
803 MW-3	Solids, Total Dissolved	mg/L	10/16/2024		49
803 MW-3	Solids, Total Dissolved	mg/L	03/12/2025		88
803 MW-3	Solids, Total Dissolved	mg/L	06/18/2025		89
803 MW-3	Solids, Total Dissolved	mg/L	09/17/2025		56
803 MW-3	Solids, Total Dissolved	mg/L	11/19/2025		18