CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: August 12, 2024 FILE REF: 5908

TO: File

FROM: Woody Myers - WCR

SUBJECT: Alma Center Wastewater Treatment Facility - Land Disposal System Evaluation Report, WPDES Permit # WI-0021385

Site Information

The Alma Center Wastewater Treatment Facility, a municipal facility, is located at 200 North Church Street, Alma Center, Jackson County. Wastewater is currently treated and discharged to groundwater via infiltration by way of modified absorption ponds (seepage cells) located in the NW ¼ of the SW ¼ of Section 17, T23N, R04W, Town of Alma Center.

Land Disposal Effluent & Groundwater Evaluation Summary

Table 1 Land Disposal Outfall Sampling Point Parameters and Limits
Outfall 002 Absorption Ponds

Parameter	Current Permit WI-0021385-10		Proposed Permit WI-0021385-11	
	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 Dissolved 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	
Chloride	250 mg/l	Daily Max	250 mg/l	Daily Max
Nitrogen, Total	10 mg/l	Monthly Avg	10 mg/l	Monthly Avg

No proposed permit changes

Table 2 Monitoring Wells

Well	Current Permit WI-0021385-10		Proposed Permit WI-0021385-11	
	Well Location	Well Designation	Well Location	Well Designation
801 (MW-1)	Side-gradient	Non-Point of Standard	Side-gradient	Non-Point of Standard
802 (MW-2)	Up-gradient	Background	Up-gradient	Background
806 (MW-6)	Up-gradient	Background	***Mid-system**	***Non-Point of Standard**
808 (MW-8)	Side-gradient	Non-Point of Standard	Side-gradient	Non-Point of Standard

* Proposed permit changes

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Table 3 Groundwater Quality Standards

Parameter	Current Permit WI-0021385-10		Proposed WI-0021385-11	
	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	10.0 mg/l (ACL)	10.0 mg/l	***Exempt**	
Chloride	125 mg/l	250 mg/l	125 mg/l	250 mg/l
Nitrogen, Ammonia	2.3 mg/l (ACL)	9.7 mg/l	***3.5 mg/l**	9.7 mg/l
pH, Field	4.6-6.6 su	N/A	4.6-6.6 su	N/A
Nitrogen, Organic	2.5 mg/l	N/A	***2.7 mg/l**	N/A
Total Dissolved Solids	330 mg/l	N/A	***380 mg/l**	N/A

* Proposed permit changes

Geology

The bedrock under this facility is the Mount Simon Formation. This formation 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 no deeper than 50 feet below ground surface (bgs) (*Depth to Bedrock in Wisconsin,* WGNHS, 1973). The regolith consists of material ranging from silty sand to sand. Surface soil primarily consists of the Tarr sand (USDA NRCS Web Soil Survey).

Hydrogeology

Calculated groundwater elevations range between 955 and 965 feet above mean sea level (msl). Depth to groundwater was reported to be between 10 and 20 feet bgs. Groundwater flow direction was calculated to be predominately to the east-southeast. Regional groundwater is to the northeast in this area of Jackson County (*Water Table Elevation*, Jackson County, Map, WGNHS, 1981). The site is approximately 780 feet south of Halls Creek. There are four 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 tables are the average flow (hydraulic loading), chloride and BOD_5 (Table 5a) and the nitrogen series loading; total nitrogen, nitrite + nitrate, total Kjeldahl nitrogen, ammonia and organic nitrogen (Table 5b) loading summations for the land disposal system.

Table 5a Land Disposal Loading Averages

Year	Flow (MGD)	Chloride (mg/l)	BOD5 (mg/l)
2024#	0.028	79	4.6
2023	0.031	91	6.7
2022	0.028	80	20.6
2021	0.024	76	22.6
2020	0.031	81	13.4
2019	0.039	108	13.8

Partial year

Table 5b Land Disposal Loading Averages

Year	Total Nitrogen (mg/l)	Nitrite + Nitrate (mg/l)	Total Kjeldahl (mg/l)	Ammonia (mg/l)	Organic Nitrogen (mg/l)
2024#	7.4	0.48	7.1	5.2	1.9
2023	3.1	0.9	2.3	0.8	1.5
2022	16.1	3.4	12.6	9.1	5.2
2021	9.9	1.2	9.3	6.5	7.6
2020	14.6	2.2	14.5	10.0	2.8
2019	5.8	2.5	3.0	1.3	2.1

Partial year

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 6 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	972.72	971.1	954.5	949.5	5.0	21.6	WT
802	MW-2	982.91	981.30	960.0	955.0	5.0	26.3	WT
806	MW-6	975.50	973.00	966.0	956.0	10.0	20.0	WT
808	MW-8	978.70	976.30	966.30	956.30	10.0	20.0	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 March 19, 2019 – June 17, 2024.

Background Groundwater Quality

There were frequent exceedances of ammonia and sporadic total dissolved solids (TDS) exceedances of the PAL observed in the background groundwater quality (well 802). The trends for the results were erratic. There were two ES exceedances in the background groundwater samples for nitrite + nitrate. There were no PALs for nitrite + nitrate due to the ACL of 10.0 mg/l. There is an agricultural field directly west (up-gradient) of the land disposal system and the background well.

Down-Gradient Groundwater Quality

There were frequent ES exceedances for nitrite + nitrate and occasional PAL and ES exceedances for ammonia in well 806. The nitrite + nitrate results were sporadic in magnitude and did not have a clear trend. No trend could be established for the ammonia exceedances.

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 7 Groundwater Quality Sampling Frequency and Limits
Outfall 002 Permit WI-0021385-11

Sample Point	Well Name	Sample Frequency	Well Designation
801	MW-1	Quarterly	Non-Point of Standard
802	MW-2	Quarterly	Background
806	MW-6	Quarterly	Non-Point of Standard
808	MW-8	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	***Exempt**		NR 140.28
Chloride	125 mg/l	250 mg/l	NR 140 Table 2
Nitrogen, Ammonia	***3.5 mg/l**	9.7 mg/l	NR 140 Table 1
pH, Field	4.6-6.6 su	N/A	Calculated
Nitrogen, Organic	***2.7 mg/l**	N/A	Calculated
Total Dissolved Solids	***380 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:

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

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:

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

Conclusions

No effluent sampling changes are being recommended at this time.

Based on the survey data, depth to groundwater measurements and calculated groundwater elevations the location and designation of well 806 has changed to mid-system, as a non-point of standard well.

The calculated groundwater flow direction indicates there is not an adequate down-gradient well. However, the department is not requiring a new groundwater monitoring well at this time. Sampling results from groundwater monitoring well 806, which is mid system and a non-point of standard well, indicates that there are PAL and ES exceedances. The sampling results of 806 when compared to the up-gradient well 802 are lesser in magnitude which indicates a reduction in concentration as the groundwater travels under the land disposal system. These facts indicate that it is likely there are no PAL or ES exceedances at or beyond the design management zone therefore, a down-gradient well is not required to determine compliance with ch. NR 140 Wis. Adm. Code groundwater standards.

The department is granting a conditional s. NR 140.28 exemption for nitrite + nitrate due to the high levels (magnitude and fluctuation of concentration) in the background groundwater samples. This effectively removes the PAL and ES limits for this compound in the groundwater samples. The facility should still analyze the groundwater samples for nitrite + nitrate. The conditions of this exemption are for this land disposal system for nitrite + nitrate only and for the next permit term. In addition, the exemption will be revoked if the effluent concentrations increase significantly with an observed increase in groundwater concentrations.

The ACL exemption for ammonia has been increased from 2.3 to 3.5 mg/l based on increased background sampling results.

The indicator parameter PALs for organic nitrogen and TDS have been increased from 2.5 to 2.7 mg/l and 330 to 380 mg/l respectively based on increases in background groundwater sampling results.

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.

Appendix A

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

Well	Parameter	Unit	Sample Date		Result
801 MW-1	Chloride Dissolved	mg/L	06/26/2019		63.5
801 MW-1	Chloride Dissolved	mg/L	06/16/2020		61.8
801 MW-1	Chloride Dissolved	mg/L	06/30/2021		82.6
801 MW-1	Chloride Dissolved	mg/L	06/21/2022		68.6
801 MW-1	Chloride Dissolved	mg/L	06/28/2023		80.1
801 MW-1	Chloride Dissolved	mg/L	07/05/2023		80.1
801 MW-1	Chloride Dissolved	mg/L	06/17/2024		51.2
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/26/2019		0.56
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		0.66
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/30/2021		0.61
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/21/2022		1
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/28/2023		0.97
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	07/05/2023		0.97
801 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/17/2024		1.45
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/26/2019	<	14
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		0.27
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/30/2021	<	0.21
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2022		0.24
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/28/2023		0.27
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/05/2023		0.27
801 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2024		0.23
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/26/2019		0.06
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/30/2021		1.15
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/21/2022	<	0.43
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/28/2023		0.61
801 MW-1	Nitrogen, Organic Dissolved	mg/L	07/05/2023		0.61
801 MW-1	Nitrogen, Organic Dissolved	mg/L	06/17/2024		1.06
801 MW-1	pH Field	su	06/26/2019		5.92
801 MW-1	pH Field	su	06/16/2020		6.18
801 MW-1	pH Field	su	06/30/2021		6.81
801 MW-1	pH Field	su	06/21/2022		6.16
801 MW-1	pH Field	su	06/28/2023		7.01
801 MW-1	pH Field	su	07/05/2023		7.01
801 MW-1	pH Field	su	06/17/2024		7.4
801 MW-1	Solids, Total Dissolved	mg/L	06/26/2019		145
801 MW-1	Solids, Total Dissolved	mg/L	06/16/2020		144
801 MW-1	Solids, Total Dissolved	mg/L	06/30/2021		176
801 MW-1	Solids, Total Dissolved	mg/L	06/21/2022		115
801 MW-1	Solids, Total Dissolved	mg/L	06/28/2023		185
801 MW-1	Solids, Total Dissolved	mg/L	07/05/2023		185
801 MW-1	Solids, Total Dissolved	mg/L	06/17/2024		128

Well	Parameter	Unit	Sample Date		Result
802 MW-2	Chloride Dissolved	mg/L	03/19/2019		171
802 MW-2	Chloride Dissolved	mg/L	06/26/2019		115
802 MW-2	Chloride Dissolved	mg/L	09/17/2019		66.5
802 MW-2	Chloride Dissolved	mg/L	09/17/2019		66.5
802 MW-2	Chloride Dissolved	mg/L	03/10/2020		34.9
802 MW-2	Chloride Dissolved	mg/L	06/16/2020		14.9
802 MW-2	Chloride Dissolved	mg/L	09/09/2020		16.9
802 MW-2	Chloride Dissolved	mg/L	12/01/2020		19.9
802 MW-2	Chloride Dissolved	mg/L	03/03/2021		10.8
802 MW-2	Chloride Dissolved	mg/L	06/30/2021		12.9
802 MW-2	Chloride Dissolved	mg/L	09/21/2021		14.1
802 MW-2	Chloride Dissolved	mg/L	12/14/2021		15.3
802 MW-2	Chloride Dissolved	mg/L	03/22/2022		18.6
802 MW-2	Chloride Dissolved	mg/L	06/21/2022		22.1
802 MW-2	Chloride Dissolved	mg/L	09/14/2022		23.8
802 MW-2	Chloride Dissolved	mg/L	12/06/2022		74.4
802 MW-2	Chloride Dissolved	mg/L	03/21/2023		35.7
802 MW-2	Chloride Dissolved	mg/L	06/28/2023		64.9
802 MW-2	Chloride Dissolved	mg/L	07/05/2023		64.9
802 MW-2	Chloride Dissolved	mg/L	12/04/2023		38.3
802 MW-2	Chloride Dissolved	mg/L	02/22/2024		78.1
802 MW-2	Chloride Dissolved	mg/L	06/17/2024		45.4
		Mean			46.58636
		Standard Deviation			38.5322
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/19/2019		2.78
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/26/2019		2.63
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019		1.73
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019		1.73
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020		2.3
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		2.82
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/09/2020		1.74
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	12/01/2020		2.18
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/03/2021		2.1
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/30/2021		0.29
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/21/2021		0.6
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021		1.3
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/22/2022		1.42
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/21/2022		3.12
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/14/2022		2.07
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	12/06/2022		0.23
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023		0.19
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/28/2023	<	0.12
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	07/05/2023	<	0.12
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	12/04/2023		0.17
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	02/22/2024		0.07
802 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/17/2024	<	0.06
		Mean			1.353182
		Standard Deviation			1.046733

Well	Parameter	Unit	Sample Date		Result
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/19/2019		3.03
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/26/2019		0.46
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		0.76
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		0.76
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020		0.72
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		1.02
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/09/2020		0.96
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/01/2020		1.36
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/03/2021		0.3
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/30/2021	<	0.21
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/21/2021		0.21
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021		2.07
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2022		6.72
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2022		6.83
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/14/2022		5.04
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/06/2022		12.9
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023		4.51
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/28/2023		4.94
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/05/2023		4.94
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/04/2023		4.07
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/22/2024		2.91
802 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2024		12.2
		Mean			3.496364
		Standard Deviation			3.548621

802 MW-2	Nitrogen, Organic Dissolved	mg/L	03/19/2019		0.86
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/26/2019		0.48
802 MW-2	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
802 MW-2	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
802 MW-2	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.44
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/16/2020		0.56
802 MW-2	Nitrogen, Organic Dissolved	mg/L	09/09/2020	<	0.44
802 MW-2	Nitrogen, Organic Dissolved	mg/L	12/01/2020	<	0.44
802 MW-2	Nitrogen, Organic Dissolved	mg/L	03/03/2021		0.53
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/30/2021	<	0.43
802 MW-2	Nitrogen, Organic Dissolved	mg/L	09/21/2021	<	0.43
802 MW-2	Nitrogen, Organic Dissolved	mg/L	12/14/2021		0.48
802 MW-2	Nitrogen, Organic Dissolved	mg/L	03/22/2022		3.15
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/21/2022		0.53
802 MW-2	Nitrogen, Organic Dissolved	mg/L	09/14/2022	<	0.43
802 MW-2	Nitrogen, Organic Dissolved	mg/L	12/06/2022		0.48
802 MW-2	Nitrogen, Organic Dissolved	mg/L	03/21/2023	<	0.43
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/28/2023		0.46
802 MW-2	Nitrogen, Organic Dissolved	mg/L	07/05/2023		0.46
802 MW-2	Nitrogen, Organic Dissolved	mg/L	12/04/2023		0.62
802 MW-2	Nitrogen, Organic Dissolved	mg/L	02/22/2024	<	0.43
802 MW-2	Nitrogen, Organic Dissolved	mg/L	06/17/2024		0.86
		Mean			0.626364
		Standard Deviation			0.564185

Well	Parameter	Unit	Sample Date	Result
802 MW-2	pH Field	su	03/19/2019	6.12
802 MW-2	pH Field	su	06/26/2019	6.51
802 MW-2	pH Field	su	09/17/2019	6.18
802 MW-2	pH Field	su	09/17/2019	6.18
802 MW-2	pH Field	su	03/10/2020	6.92
802 MW-2	pH Field	su	06/16/2020	5.74
802 MW-2	pH Field	su	09/09/2020	6.92
802 MW-2	pH Field	su	12/01/2020	6.8
802 MW-2	pH Field	su	03/03/2021	6.9
802 MW-2	pH Field	su	06/30/2021	6.7
802 MW-2	pH Field	su	09/21/2021	6.9
802 MW-2	pH Field	su	12/14/2021	6.63
802 MW-2	pH Field	su	03/22/2022	6.56
802 MW-2	pH Field	su	06/21/2022	6.39
802 MW-2	pH Field	su	09/14/2022	5.95
802 MW-2	pH Field	su	12/06/2022	5.03
802 MW-2	pH Field	su	03/21/2023	6.89
802 MW-2	pH Field	su	06/28/2023	6.27
802 MW-2	pH Field	su	07/05/2023	6.27
802 MW-2	pH Field	su	12/04/2023	6.15
802 MW-2	pH Field	su	02/22/2024	6.79
802 MW-2	pH Field	su	06/17/2024	7.08
		Mean		6.449091

802 MW-2	Solids, Total Dissolved	mg/L	03/19/2019	347
802 MW-2	Solids, Total Dissolved	mg/L	06/26/2019	262
802 MW-2	Solids, Total Dissolved	mg/L	09/17/2019	197
802 MW-2	Solids, Total Dissolved	mg/L	09/17/2019	197
802 MW-2	Solids, Total Dissolved	mg/L	03/10/2020	121
802 MW-2	Solids, Total Dissolved	mg/L	06/16/2020	82
802 MW-2	Solids, Total Dissolved	mg/L	09/09/2020	107
802 MW-2	Solids, Total Dissolved	mg/L	12/01/2020	63
802 MW-2	Solids, Total Dissolved	mg/L	03/03/2021	77
802 MW-2	Solids, Total Dissolved	mg/L	06/30/2021	97
802 MW-2	Solids, Total Dissolved	mg/L	09/21/2021	99
802 MW-2	Solids, Total Dissolved	mg/L	12/14/2021	31
802 MW-2	Solids, Total Dissolved	mg/L	03/22/2022	43
802 MW-2	Solids, Total Dissolved	mg/L	06/21/2022	45
802 MW-2	Solids, Total Dissolved	mg/L	09/14/2022	92
802 MW-2	Solids, Total Dissolved	mg/L	12/06/2022	675
802 MW-2	Solids, Total Dissolved	mg/L	03/21/2023	192
802 MW-2	Solids, Total Dissolved	mg/L	06/28/2023	196
802 MW-2	Solids, Total Dissolved	mg/L	07/05/2023	196
802 MW-2	Solids, Total Dissolved	mg/L	12/04/2023	209
802 MW-2	Solids, Total Dissolved	mg/L	02/22/2024	270
802 MW-2	Solids, Total Dissolved	mg/L	06/17/2024	299
		Mean		177.1364
		Standard Deviation		139.2993

Well	Parameter	Unit	Sample Date		Result
806 MW-6	Chloride Dissolved	mg/L	03/19/2019		252
806 MW-6	Chloride Dissolved	mg/L	06/26/2019		11.8
806 MW-6	Chloride Dissolved	mg/L	09/17/2019		25.9
806 MW-6	Chloride Dissolved	mg/L	09/17/2019		25.9
806 MW-6	Chloride Dissolved	mg/L	03/10/2020		99.8
806 MW-6	Chloride Dissolved	mg/L	06/16/2020		3.87
806 MW-6	Chloride Dissolved	mg/L	09/09/2020		50.5
806 MW-6	Chloride Dissolved	mg/L	12/01/2020		81.3
806 MW-6	Chloride Dissolved	mg/L	03/03/2021		101
806 MW-6	Chloride Dissolved	mg/L	06/30/2021		72.3
806 MW-6	Chloride Dissolved	mg/L	09/21/2021		65.4
806 MW-6	Chloride Dissolved	mg/L	12/14/2021		55.3
806 MW-6	Chloride Dissolved	mg/L	03/22/2022		59.8
806 MW-6	Chloride Dissolved	mg/L	06/21/2022		40.2
806 MW-6	Chloride Dissolved	mg/L	09/14/2022		64.4
806 MW-6	Chloride Dissolved	mg/L	12/06/2022		71.8
806 MW-6	Chloride Dissolved	mg/L	03/21/2023		12.4
806 MW-6	Chloride Dissolved	mg/L	06/28/2023		6.49
806 MW-6	Chloride Dissolved	mg/L	07/05/2023		6.49
806 MW-6	Chloride Dissolved	mg/L	12/04/2023		40.5
806 MW-6	Chloride Dissolved	mg/L	02/22/2024		113
806 MW-6	Chloride Dissolved	mg/L	06/17/2024		59.7
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	03/19/2019		0.21
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/26/2019	<	0.14
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019		0.14
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019		0.14
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020		0.16
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		0.13
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	09/09/2020		0.12
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	12/01/2020		0.16
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	03/03/2021		0.2
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/30/2021		0.54
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	09/21/2021		1.32
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021		2.32
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	03/22/2022		0.44
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/21/2022		0.21
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	09/14/2022		0.16
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	12/06/2022		0.26
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023		0.12
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/28/2023	<	0.12
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	07/05/2023	<	0.12
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	12/04/2023	<	0.12
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	02/22/2024	<	0.06
806 MW-6	Nitrogen, Ammonia Dissolved	mg/L	06/17/2024	<	0.06

Well	Parameter	Unit	Sample Date		Result
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/19/2019		6.87
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/26/2019		3.86
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		1.32
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		1.32
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020		1.95
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		4.71
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/09/2020		10.2
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/01/2020		9.04
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/03/2021		4.92
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/30/2021		7.31
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/21/2021		7.11
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021		12.2
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2022		7.46
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2022		4.23
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/14/2022		9.54
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/06/2022		12.3
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023		10.4
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/28/2023		5.25
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/05/2023		5.25
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/04/2023		4.69
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/22/2024		2.44
806 MW-6	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2024		2.31
806 MW-6	Nitrogen, Organic Dissolved	mg/L	03/19/2019	<	0.42
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/26/2019		0.01
806 MW-6	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
806 MW-6	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
806 MW-6	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.44
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
806 MW-6	Nitrogen, Organic Dissolved	mg/L	09/09/2020	<	0.44
806 MW-6	Nitrogen, Organic Dissolved	mg/L	12/01/2020	<	0.44
806 MW-6	Nitrogen, Organic Dissolved	mg/L	03/03/2021		0.58
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/30/2021		0.55
806 MW-6	Nitrogen, Organic Dissolved	mg/L	09/21/2021		1
806 MW-6	Nitrogen, Organic Dissolved	mg/L	12/14/2021	<	0.43
806 MW-6	Nitrogen, Organic Dissolved	mg/L	03/22/2022		0.63
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/21/2022	<	0.43
806 MW-6	Nitrogen, Organic Dissolved	mg/L	09/14/2022		0.51
806 MW-6	Nitrogen, Organic Dissolved	mg/L	12/06/2022		0.45
806 MW-6	Nitrogen, Organic Dissolved	mg/L	03/21/2023	<	0.43
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/28/2023		0.56
806 MW-6	Nitrogen, Organic Dissolved	mg/L	07/05/2023		0.56
806 MW-6	Nitrogen, Organic Dissolved	mg/L	12/04/2023	<	0.43
806 MW-6	Nitrogen, Organic Dissolved	mg/L	02/22/2024	<	0.43
806 MW-6	Nitrogen, Organic Dissolved	mg/L	06/17/2024		0.79

Well	Parameter	Unit	Sample Date	Result
806 MW-6	pH Field	su	03/19/2019	6.22
806 MW-6	pH Field	su	06/26/2019	6.3
806 MW-6	pH Field	su	09/17/2019	6.3
806 MW-6	pH Field	su	09/17/2019	6.3
806 MW-6	pH Field	su	03/10/2020	6.46
806 MW-6	pH Field	su	06/16/2020	5.97
806 MW-6	pH Field	su	09/09/2020	6.46
806 MW-6	pH Field	su	12/01/2020	6.6
806 MW-6	pH Field	su	03/03/2021	6.4
806 MW-6	pH Field	su	06/30/2021	6.45
806 MW-6	pH Field	su	09/21/2021	6.6
806 MW-6	pH Field	su	12/14/2021	6.08
806 MW-6	pH Field	su	03/22/2022	6.29
806 MW-6	pH Field	su	06/21/2022	6.16
806 MW-6	pH Field	su	09/14/2022	5.86
806 MW-6	pH Field	su	12/06/2022	5
806 MW-6	pH Field	su	03/21/2023	5.06
806 MW-6	pH Field	su	06/28/2023	6.46
806 MW-6	pH Field	su	07/05/2023	6.46
806 MW-6	pH Field	su	12/04/2023	5.68
806 MW-6	pH Field	su	02/22/2024	5.16
806 MW-6	pH Field	su	06/17/2024	6.62
806 MW-6	Solids, Total Dissolved	mg/L	03/19/2019	618
806 MW-6	Solids, Total Dissolved	mg/L	06/26/2019	85
806 MW-6	Solids, Total Dissolved	mg/L	09/17/2019	132
806 MW-6	Solids, Total Dissolved	mg/L	09/17/2019	132
806 MW-6	Solids, Total Dissolved	mg/L	03/10/2020	259
806 MW-6	Solids, Total Dissolved	mg/L	06/16/2020	69
806 MW-6	Solids, Total Dissolved	mg/L	09/09/2020	247
806 MW-6	Solids, Total Dissolved	mg/L	12/01/2020	292
806 MW-6	Solids, Total Dissolved	mg/L	03/03/2021	338
806 MW-6	Solids, Total Dissolved	mg/L	06/30/2021	300
806 MW-6	Solids, Total Dissolved	mg/L	09/21/2021	264
806 MW-6	Solids, Total Dissolved	mg/L	12/14/2021	227
806 MW-6	Solids, Total Dissolved	mg/L	03/22/2022	192
806 MW-6	Solids, Total Dissolved	mg/L	06/21/2022	149
806 MW-6	Solids, Total Dissolved	mg/L	09/14/2022	271
806 MW-6	Solids, Total Dissolved	mg/L	12/06/2022	334
806 MW-6	Solids, Total Dissolved	mg/L	03/21/2023	250
806 MW-6	Solids, Total Dissolved	mg/L	06/28/2023	53
806 MW-6	Solids, Total Dissolved	mg/L	07/05/2023	53
806 MW-6	Solids, Total Dissolved	mg/L	12/04/2023	165
806 MW-6	Solids, Total Dissolved	mg/L	02/22/2024	306
806 MW-6	Solids, Total Dissolved	mg/L	06/17/2024	233

Well	Parameter	Unit	Sample Date		Result
808 MW-8	Chloride Dissolved	mg/L	03/19/2019		294
808 MW-8	Chloride Dissolved	mg/L	06/26/2019		62.3
808 MW-8	Chloride Dissolved	mg/L	09/17/2019		30.6
808 MW-8	Chloride Dissolved	mg/L	09/17/2019		30.6
808 MW-8	Chloride Dissolved	mg/L	03/10/2020		69.6
808 MW-8	Chloride Dissolved	mg/L	06/16/2020		55
808 MW-8	Chloride Dissolved	mg/L	09/09/2020		31
808 MW-8	Chloride Dissolved	mg/L	12/01/2020		63.9
808 MW-8	Chloride Dissolved	mg/L	03/03/2021		61.5
808 MW-8	Chloride Dissolved	mg/L	06/30/2021		36.8
808 MW-8	Chloride Dissolved	mg/L	09/21/2021		22.8
808 MW-8	Chloride Dissolved	mg/L	12/14/2021		20.5
808 MW-8	Chloride Dissolved	mg/L	03/22/2022		68.1
808 MW-8	Chloride Dissolved	mg/L	06/21/2022		50.4
808 MW-8	Chloride Dissolved	mg/L	09/14/2022		61
808 MW-8	Chloride Dissolved	mg/L	12/06/2022		54
808 MW-8	Chloride Dissolved	mg/L	03/21/2023		39
808 MW-8	Chloride Dissolved	mg/L	06/23/2023		56.1
808 MW-8	Chloride Dissolved	mg/L	07/05/2023		56.1
808 MW-8	Chloride Dissolved	mg/L	12/04/2023		30.3
808 MW-8	Chloride Dissolved	mg/L	02/22/2024		78.6
808 MW-8	Chloride Dissolved	mg/L	06/17/2024		40.6
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	03/19/2019		0.17
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/26/2019	<	0.14
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	<	0.14
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019		0.14
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	03/10/2020		0.16
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		0.17
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	09/09/2020	<	0.12
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	12/01/2020		0.15
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	03/03/2021		0.19
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/30/2021		0.17
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	09/21/2021		0.16
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	12/14/2021		0.43
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	03/22/2022		0.13
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/21/2022		0.16
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	09/14/2022		0.21
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	12/06/2022		0.15
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	03/21/2023		0.13
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/23/2023	<	0.12
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	07/05/2023	<	0.12
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	12/04/2023		0.16
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	02/22/2024	<	0.06
808 MW-8	Nitrogen, Ammonia Dissolved	mg/L	06/17/2024	<	0.06

Well	Parameter	Unit	Sample Date		Result
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/19/2019		3.93
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/26/2019		3.68
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		2.85
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		2.85
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/10/2020		6.47
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		14
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/09/2020		6.96
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/01/2020		6.51
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/03/2021		5.17
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/30/2021		6.03
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/21/2021		4.84
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/14/2021		4.03
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2022		8.45
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/21/2022		11.2
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/14/2022		13
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/06/2022		5.54
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2023		5.49
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/23/2023		4.98
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/05/2023		4.98
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	12/04/2023		3.76
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	02/22/2024		2.74
808 MW-8	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/17/2024		10.1
808 MW-8	Nitrogen, Organic Dissolved	mg/L	03/19/2019	<	0.42
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/26/2019		0.21
808 MW-8	Nitrogen, Organic Dissolved	mg/L	09/17/2019		0.49
808 MW-8	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.49
808 MW-8	Nitrogen, Organic Dissolved	mg/L	03/10/2020	<	0.44
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
808 MW-8	Nitrogen, Organic Dissolved	mg/L	09/09/2020	<	0.44
808 MW-8	Nitrogen, Organic Dissolved	mg/L	12/01/2020	<	0.44
808 MW-8	Nitrogen, Organic Dissolved	mg/L	03/03/2021	<	0.43
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/30/2021	<	0.43
808 MW-8	Nitrogen, Organic Dissolved	mg/L	09/21/2021		0.54
808 MW-8	Nitrogen, Organic Dissolved	mg/L	12/14/2021		20.5
808 MW-8	Nitrogen, Organic Dissolved	mg/L	03/22/2022		0.52
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/21/2022	<	0.43
808 MW-8	Nitrogen, Organic Dissolved	mg/L	09/14/2022		0.52
808 MW-8	Nitrogen, Organic Dissolved	mg/L	12/06/2022		0.44
808 MW-8	Nitrogen, Organic Dissolved	mg/L	03/21/2023	<	0.43
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/23/2023		0.47
808 MW-8	Nitrogen, Organic Dissolved	mg/L	07/05/2023		0.47
808 MW-8	Nitrogen, Organic Dissolved	mg/L	12/04/2023		0.63
808 MW-8	Nitrogen, Organic Dissolved	mg/L	02/22/2024	<	0.43
808 MW-8	Nitrogen, Organic Dissolved	mg/L	06/17/2024		0.89

Well	Parameter	Unit	Sample Date	Result
808 MW-8	pH Field	su	03/19/2019	6.44
808 MW-8	pH Field	su	06/26/2019	6.51
808 MW-8	pH Field	su	09/17/2019	6.32
808 MW-8	pH Field	su	09/17/2019	6.32
808 MW-8	pH Field	su	03/10/2020	6.41
808 MW-8	pH Field	su	06/16/2020	6.15
808 MW-8	pH Field	su	09/09/2020	6.41
808 MW-8	pH Field	su	12/01/2020	6.49
808 MW-8	pH Field	su	03/03/2021	6.45
808 MW-8	pH Field	su	06/30/2021	6.41
808 MW-8	pH Field	su	09/21/2021	6.9
808 MW-8	pH Field	su	12/14/2021	6.15
808 MW-8	pH Field	su	03/22/2022	6.65
808 MW-8	pH Field	su	06/21/2022	6.47
808 MW-8	pH Field	su	09/14/2022	5.74
808 MW-8	pH Field	su	12/06/2022	5.06
808 MW-8	pH Field	su	03/21/2023	6.25
808 MW-8	pH Field	su	06/23/2023	6.22
808 MW-8	pH Field	su	07/05/2023	6.22
808 MW-8	pH Field	su	12/04/2023	6.24
808 MW-8	pH Field	su	02/22/2024	6.18
808 MW-8	pH Field	su	06/17/2024	6.55
808 MW-8	Solids, Total Dissolved	mg/L	03/19/2019	635
808 MW-8	Solids, Total Dissolved	mg/L	06/26/2019	207
808 MW-8	Solids, Total Dissolved	mg/L	09/17/2019	152
808 MW-8	Solids, Total Dissolved	mg/L	09/17/2019	152
808 MW-8	Solids, Total Dissolved	mg/L	03/10/2020	245
808 MW-8	Solids, Total Dissolved	mg/L	06/16/2020	285
808 MW-8	Solids, Total Dissolved	mg/L	09/09/2020	176
808 MW-8	Solids, Total Dissolved	mg/L	12/01/2020	242
808 MW-8	Solids, Total Dissolved	mg/L	03/03/2021	237
808 MW-8	Solids, Total Dissolved	mg/L	06/30/2021	198
808 MW-8	Solids, Total Dissolved	mg/L	09/21/2021	149
808 MW-8	Solids, Total Dissolved	mg/L	12/14/2021	91
808 MW-8	Solids, Total Dissolved	mg/L	03/22/2022	256
808 MW-8	Solids, Total Dissolved	mg/L	06/21/2022	212
808 MW-8	Solids, Total Dissolved	mg/L	09/14/2022	282
808 MW-8	Solids, Total Dissolved	mg/L	12/06/2022	244
808 MW-8	Solids, Total Dissolved	mg/L	03/21/2023	76
808 MW-8	Solids, Total Dissolved	mg/L	06/23/2023	219
808 MW-8	Solids, Total Dissolved	mg/L	07/05/2023	219
808 MW-8	Solids, Total Dissolved	mg/L	12/04/2023	204
808 MW-8	Solids, Total Dissolved	mg/L	02/22/2024	270
808 MW-8	Solids, Total Dissolved	mg/L	06/17/2024	268

Well	Parameter	Unit	Sample Date		Result
809 MW-9	Chloride Dissolved	mg/L	03/19/2019		95.3
809 MW-9	Chloride Dissolved	mg/L	06/26/2019		31.8
809 MW-9	Chloride Dissolved	mg/L	09/17/2019		19.6
809 MW-9	Chloride Dissolved	mg/L	09/17/2019		19.6
809 MW-9	Nitrogen, Ammonia Dissolved	mg/L	03/19/2019		0.16
809 MW-9	Nitrogen, Ammonia Dissolved	mg/L	06/26/2019	<	0.14
809 MW-9	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	<	0.14
809 MW-9	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	<	0.14
809 MW-9	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/19/2019		16.8
809 MW-9	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/26/2019		4.68
809 MW-9	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		16.9
809 MW-9	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		16.9
809 MW-9	Nitrogen, Organic Dissolved	mg/L	03/19/2019	<	0.42
809 MW-9	Nitrogen, Organic Dissolved	mg/L	06/26/2019		0
809 MW-9	Nitrogen, Organic Dissolved	mg/L	09/17/2019		0.5
809 MW-9	Nitrogen, Organic Dissolved	mg/L	09/17/2019		0.5
809 MW-9	pH Field	su	03/19/2019		5.07
809 MW-9	pH Field	su	06/26/2019		5.07
809 MW-9	pH Field	su	09/17/2019		6.92
809 MW-9	pH Field	su	09/17/2019		6.92
809 MW-9	Solids, Total Dissolved	mg/L	03/19/2019		297
809 MW-9	Solids, Total Dissolved	mg/L	06/26/2019		130
809 MW-9	Solids, Total Dissolved	mg/L	09/17/2019		189
809 MW-9	Solids, Total Dissolved	mg/L	09/17/2019		189