CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: July 10, 2024 FILE REF: 5816

TO: File

FROM: Woody Myers - WCR

SUBJECT: Cochrane Wastewater Treatment Facility - Land Disposal System Evaluation Report, WPDES Permit # WI-0020214

Site Information

The Cochrane Wastewater Treatment Facility is located at 311 Michaels Street, Cochrane, Buffalo County. This is a municipal wastewater treatment facility. Wastewater is currently treated via stabilization ponds and discharged to one of two absorption ponds (seepage cells). The absorption ponds are located in the NE ¼ of the SW ¼ of Section 8, T20N, R12W, Town of Milton.

Land Disposal Effluent & Groundwater Evaluation Summary

Table 1 Land Disposal Sample Point Parameters and Limits
Outfall 001 Effluent to Absorption Ponds

	Current Permit WI-0020214-10		Proposed Permit WI-0020214-11	
Parameter	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	
Nitrogen, Total	- mg/l		- mg/l	
Total Dissolved Solids	- mg/l		- mg/l	
Chloride	- mg/l		- mg/l	

No proposed permit changes

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Table 2 Monitoring Wells

Well	Current Permit WI-0020214-10		Proposed Permit WI-0020214-11	
	Well Location	Well Designation	Well Location	Well Designation
803 MW-1	Mid-gradient	Non-Point of Standard	Mid-gradient	Non-Point of Standard
804 MW-2	Mid-gradient	Non-Point of Standard	Mid-gradient	Non-Point of Standard
805 MW-3	Mid-gradient	Non-Point of Standard	Mid-gradient	Non-Point of Standard
806 MW-4	Up-gradient	Background	Up-gradient	***Non-Point of Standard**
808 MP-1	Up-gradient	Point of Standard	Up-gradient	***Background**
809 MP-2	Down-gradient	Point of Standard	Down-gradient	Point of Standard
810 MP-3	Down-gradient	Point of Standard	Down-gradient	Point of Standard
811 MP-4	Side-gradient	Non-Point of Standard	Side-gradient	Non-Point of Standard

* Proposed permit changes

Table 3 Groundwater Quality Standards

Parameter	Current Permit WI-0020214-10		Proposed WI-0020214-11	
	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
Chloride	125 mg/l	250 mg/l	125 mg/l	250 mg/l
Nitrogen, Nitrite + Nitrate	10.0 mg/l (ACL)	10.0 mg/l	***5.8 mg/l**	10.0 mg/l
pH, Field	6.0-8.0 su	N/A	***6.7-8.7 su**	N/A
Nitrogen, Ammonia	0.97 mg/l	9.7 mg/l	0.97 mg/l	9.7 mg/l
Nitrogen, Organic	2.5 mg/l	N/A	2.5 mg/l	N/A
Total Dissolved Solids	550 mg/l	N/A	***425** mg/l	N/A

* Proposed permit changes

Geology

This facility is in close proximity to the boundary of the Wonewoc and Eau Claire formations. The Wonewoc Formation is comprised of the Ironton and Galesville members. Both the Ironton and Galesville members are sandstone. The Eau Claire is comprised of a subangular poorly sorted fine-grained sandstone. Glauconite deposits are common with flaggy beds separated by green shale (*Bedrock Geology of Wisconsin, Regional Map Series Northwest Sheet*, Wisconsin Geological and Natural History Survey (WGNHS), 1987). Bedrock is anticipated to be between 100 and 200 feet below ground surface (bgs) (*Depth to Bedrock in Wisconsin,* WGNHS, 1973). The regolith consists of material ranging from sand to fine silt consistent to that of fluvial systems. Surface soil primarily consists of the Burkhardt sandy loam and the Plainfield sand (USDA NRCS Web Soil Survey). The topography of the site is consistent of a fluvial plain.

Hydrogeology

Calculated groundwater elevations range between 654 and 659 feet above mean sea level (msl). Depth to groundwater was reported to be between 10 and 26 feet bgs. Groundwater flow direction was calculated to be predominately to the north. Regional groundwater is to the southwest in this area of Buffalo County (*Generalized Water-Table Elevation Map of Buffalo County, Wisconsin*, WGNHS, 2000). The site is approximately 1,350 feet northeast of the Mississippi River. There are twelve 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, nitrite + nitrate, Kjeldahl, 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)
2023	ND#	237	9.0
2022	0.189	286	12.3
2021	0.404	247	20.5
2020	0.460	173	5.3
2019	0.372	153	17.3

Flow data not available due to flow measurement malfunction

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)
2023	7.48	0.27	5.61	3.10	2.51
2022	9.60	0.21	9.60	6.27	6.84
2021	7.65	0.43	7.32	2.06	5.26
2020	10.54	0.25	10.30	7.09	3.45
2019	13.88	0.17	13.75	10.24	5.78

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	
803	MW-1	683.91	681.60	661.9	651.8	10.1		WT
804	MW-2	683.87	681.60	662.2	652.1	10.1		WT
805	MW-3	683.61	681.30	661.5	651.4	10.1		WT
806	MW-4	680.48	678.20	661.8	651.7	10.1		WT
808	MP-1	684.52	683.03	657.7	652.7	5.0		O
809	MP-2	675.20	672.60	657.5	652.5	5.0		O
810	MP-3	667.42	664.37	655.3	650.3	5.0		O
811	MP-4	675.20	672.66	657.6	652.6	5.0		O

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 20, 2019 – March 21, 2024.

Background Groundwater Quality

Groundwater monitoring well 806 had been used as the background well for calculating indicator parameter PALs and ACLs in the previous permit. However, given the proximity to absorption pond #2 and the groundwater sampling results compared to the other wells; it appears to be influenced by the infiltration of wastewater at the absorption pond. Groundwater monitoring well 808 will be used to evaluate and calculate PALs and potential ACLs for the next permit term.

Well 808 sample results had frequent exceedances of s. NR 140.10 Wis. Adm. Code PAL for nitrite + nitrate. The trend for nitrite + nitrate in well 808 appears to be stable. There were no other sample parameter limit exceedances.

Down-Gradient Groundwater Quality

There was one exceedance of chloride in well 804 on March 20, 2019. The only other compounds that exceeded its PAL and ES was nitrite + nitrate. These exceedances were observed in groundwater monitoring wells 806 and 809. The exceedances in well 806 were consistent and the trend was stable. The exceedances in well 809 were infrequent and the trend was increasing over time. See Figure 1. The June 7, 2021 data point from well 806 was removed from evaluation due to its appearance as an outlier. The result was 75.4 mg/l for nitrite + nitrate and is significantly greater than the mean of the balance of results from this period of evaluation.

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 was not a clear correlation between the effluent loading levels of nitrite + nitrate and the groundwater monitoring results.

Proposed Groundwater Monitoring Requirements

Table 7 Groundwater Quality Sampling Frequency and Limits Outfall 001 Permit WI-0020214-11

Sample Point	Well Name	Sample Frequency	Well Designation
803	MW-1	Semiannually	Non-Point of Standard
804	MW-2	Semiannually	Non-Point of Standard
805	MW-3	Semiannually	Non-Point of Standard
806	MW-4	Quarterly	***Non-Point of Standard**
808	MP-1	Quarterly	***Background**
809	MP-2	Quarterly	Point of Standard
810	MP-3	Quarterly	Non-Point of Standard
811	MP-4	Semiannually	Non-Point of Standard
Parameter	PAL	ES	Source
Depth to Groundwater	N/A	N/A	Measured
Groundwater Elevation	N/A	N/A	Measured
Chloride	125 mg/l	250 mg/l	NR 140 Table 2
Nitrogen, Nitrite + Nitrate	***5.8 mg/l**	10.0 mg/l	NR 140 Table 1
pH, Field	***6.7-8.7 su**	N/A	Calculated
Nitrogen, Ammonia	0.97 mg/l	9.7 mg/l	NR 140 Table 1
Nitrogen, Organic	2.5 mg/l	N/A	Calculated
Total Dissolved Solids	***425 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 increasing trends in 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:

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

Exemptions and Alternative Concentration Limits

Exemptions and 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 to the effluent sampling parameters or the associated limits.

Groundwater monitoring well 806 had previously been an up-gradient background well and had been used for calculating indicator parameter PALs and ACLs. It has been redesignated as a down-gradient non-point of standard well and will no longer be used to calculate groundwater limits. The reason for this change is that well 806 appears to be influenced by the adjacent absorption pond. Because of the high potential for influence it is not an adequate well for background purposes. Well 808 has been redesignated as the background well and was used to calculate indicator parameter PALs and ACLs. No new groundwater monitoring wells are needed.

No s. NR 140.24 Wis. Adm. Code response action is required for the one chloride exceedance in well 804.

The trend of the groundwater sampling results for nitrite + nitrate in well 809 (a point of standard well) is increasing over time and for the past two samples has exceeded the ACL of 10.0 mg/l so a s. NR 140.26 Wis. Adm. Code response action is required. However, the department cannot ascertain how much of the exceedance is from background and how much is a contribution from the land disposal system. As a result, the department will only require the addition of total nitrogen to the influent sampling parameters with no limit. The collected data will aid in further evaluation of the process of nitrogen with the Cochrane wastewater treatment system. No other response action will be required at this time.

The ACL for nitrite + nitrate was reduced. Based on background groundwater quality the ACL was reduced from 10 mg/l to 5.8 mg/l. The PAL for TDS was decreased and the pH PAL range was increased based on based on background groundwater quality.

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	param	unit_type	sample_date	result_amt
803 MW-1	Chloride Dissolved	mg/L	03/20/2019	18.6
803 MW-1	Chloride Dissolved	mg/L	06/24/2019	19.4
803 MW-1	Chloride Dissolved	mg/L	09/17/2019	16.7
803 MW-1	Chloride Dissolved	mg/L	10/22/2019	17.3
803 MW-1	Chloride Dissolved	mg/L	06/16/2020	19.8
803 MW-1	Chloride Dissolved	mg/L	09/10/2020	17.7
803 MW-1	Chloride Dissolved	mg/L	06/07/2021	20.1
803 MW-1	Chloride Dissolved	mg/L	08/17/2021	21.4
803 MW-1	Chloride Dissolved	mg/L	05/11/2022	17.71
803 MW-1	Chloride Dissolved	mg/L	07/20/2022	16
803 MW-1	Chloride Dissolved	mg/L	06/07/2023	12.9
803 MW-1	Chloride Dissolved	mg/L	08/15/2023	12.1
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	03/20/2019	0.14
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/24/2019	0.15
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	< 0.42
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	10/22/2019	< 0.14
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	< 0.12
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	0.16
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	< 0.12
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	< 0.12
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022	0.13
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022	0.16
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023	0.12
803 MW-1	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023	0.12
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/20/2019	9.79
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/24/2019	9.82
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019	9.24
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/22/2019	8.84
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	7.79
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	6.03
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	14.8
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	2.13
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	3.21
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	3.61
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	4.42
803 MW-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	4.39

well		param	unit_type	sample_date		result_amt
803	MW-1	Nitrogen, Organic Dissolved	mg/L	03/20/2019		0.3
803	MW-1	Nitrogen, Organic Dissolved	mg/L	06/24/2019		0.05
803	MW-1	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
803	MW-1	Nitrogen, Organic Dissolved	mg/L	10/22/2019	<	0.42
803	MW-1	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
803	MW-1	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
803	MW-1	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
803	MW-1	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
803	MW-1	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
803	MW-1	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
803	MW-1	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.43
803	MW-1	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
803	MW-1	pH Field	su	03/20/2019		7.2
803	MW-1	pH Field	su	06/24/2019		7.88
803	MW-1	pH Field	su	09/17/2019		7.68
803	MW-1	pH Field	su	10/22/2019		7.72
803	MW-1	pH Field	su	06/16/2020		7.55
803	MW-1	pH Field	su	09/10/2020		7.55
803	MW-1	pH Field	su	06/07/2021		7.55
803	MW-1	pH Field	su	08/17/2021		7.89
803	MW-1	pH Field	su	05/11/2022		5.7
803	MW-1	pH Field	su	07/20/2022		6.88
803	MW-1	pH Field	su	06/07/2023		6.93
803	MW-1	pH Field	su	08/15/2023		6.87
803	MW-1	Solids, Total Dissolved	mg/L	03/20/2019		356
803	MW-1	Solids, Total Dissolved	mg/L	06/24/2019		365
803	MW-1	Solids, Total Dissolved	mg/L	09/17/2019		379
803	MW-1	Solids, Total Dissolved	mg/L	10/22/2019		333
803	MW-1	Solids, Total Dissolved	mg/L	06/16/2020		337
803	MW-1	Solids, Total Dissolved	mg/L	09/10/2020		314
803	MW-1	Solids, Total Dissolved	mg/L	06/07/2021		306
803	MW-1	Solids, Total Dissolved	mg/L	08/17/2021		318
803	MW-1	Solids, Total Dissolved	mg/L	05/11/2022		221
803	MW-1	Solids, Total Dissolved	mg/L	07/20/2022		282
803	MW-1	Solids, Total Dissolved	mg/L	06/07/2023		284
803	MW-1	Solids, Total Dissolved	mg/L	08/15/2023		322

well	param	unit_type	sample_date	result_amt
804 MW-2	Chloride Dissolved	mg/L	03/20/2019	127
804 MW-2	Chloride Dissolved	mg/L	06/24/2019	84.6
804 MW-2	Chloride Dissolved	mg/L	09/17/2019	109
804 MW-2	Chloride Dissolved	mg/L	10/22/2019	109
804 MW-2	Chloride Dissolved	mg/L	06/16/2020	112
804 MW-2	Chloride Dissolved	mg/L	09/10/2020	91.1
804 MW-2	Chloride Dissolved	mg/L	06/07/2021	97.8
804 MW-2	Chloride Dissolved	mg/L	08/17/2021	105
804 MW-2	Chloride Dissolved	mg/L	05/11/2022	122
804 MW-2	Chloride Dissolved	mg/L	07/20/2022	62.5
804 MW-2	Chloride Dissolved	mg/L	06/07/2023	70
804 MW-2	Chloride Dissolved	mg/L	08/15/2023	70
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	03/20/2019	0.15
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/24/2019	0.15
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	< 0.14
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	10/22/2019	0.14
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	< 0.12
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	< 0.12
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	0.12
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	0.15
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022	0.12
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022	0.12
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023	0.13
804 MW-2	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023	0.13
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/20/2019	0.44
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/24/2019	0.53
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019	0.86
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/22/2019	1.05
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	2.27
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	0.82
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	0.99
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	0.97
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	2.05
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	7.18
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	12.7
804 MW-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	12.7

well	param	unit_type	sample_date	result_amt
804 MW-2	Nitrogen, Organic Dissolved	mg/L	03/20/2019	0.28
804 MW-2	Nitrogen, Organic Dissolved	mg/L	06/24/2019	0.01
804 MW-2	Nitrogen, Organic Dissolved	mg/L	09/17/2019	< 0.42
804 MW-2	Nitrogen, Organic Dissolved	mg/L	10/22/2019	< 0.42
804 MW-2	Nitrogen, Organic Dissolved	mg/L	06/16/2020	< 0.44
804 MW-2	Nitrogen, Organic Dissolved	mg/L	09/10/2020	< 0.44
804 MW-2	Nitrogen, Organic Dissolved	mg/L	06/07/2021	< 0.43
804 MW-2	Nitrogen, Organic Dissolved	mg/L	08/17/2021	< 0.43
804 MW-2	Nitrogen, Organic Dissolved	mg/L	05/11/2022	0.43
804 MW-2	Nitrogen, Organic Dissolved	mg/L	07/20/2022	0.43
804 MW-2	Nitrogen, Organic Dissolved	mg/L	06/07/2023	0.43
804 MW-2	Nitrogen, Organic Dissolved	mg/L	08/15/2023	0.43352
804 MW-2	pH Field	su	03/20/2019	7.17
804 MW-2	pH Field	su	06/24/2019	7.83
804 MW-2	pH Field	su	09/17/2019	7.61
804 MW-2	pH Field	su	10/22/2019	7.86
804 MW-2	pH Field	su	06/16/2020	7.49
804 MW-2	pH Field	su	09/10/2020	7.56
804 MW-2	pH Field	su	06/07/2021	7.46
804 MW-2	pH Field	su	08/17/2021	7.75
804 MW-2	pH Field	su	05/11/2022	5.85
804 MW-2	pH Field	su	07/20/2022	6.77
804 MW-2	pH Field	su	06/07/2023	6.7
804 MW-2	pH Field	su	08/15/2023	6.7
804 MW-2	Solids, Total Dissolved	mg/L	03/20/2019	475
804 MW-2	Solids, Total Dissolved	mg/L	06/24/2019	419
804 MW-2	Solids, Total Dissolved	mg/L	09/17/2019	437
804 MW-2	Solids, Total Dissolved	mg/L	10/22/2019	390
804 MW-2	Solids, Total Dissolved	mg/L	06/16/2020	460
804 MW-2	Solids, Total Dissolved	mg/L	09/10/2020	394
804 MW-2	Solids, Total Dissolved	mg/L	06/07/2021	409
804 MW-2	Solids, Total Dissolved	mg/L	08/17/2021	465
804 MW-2	Solids, Total Dissolved	mg/L	05/11/2022	437
804 MW-2	Solids, Total Dissolved	mg/L	07/20/2022	375
804 MW-2	Solids, Total Dissolved	mg/L	06/07/2023	352
804 MW-2	Solids, Total Dissolved	mg/L	08/15/2023	352

well		param	unit_type	sample_date	result_amt
805	MW-3	Chloride Dissolved	mg/L	03/20/2019	18.2
805	MW-3	Chloride Dissolved	mg/L	06/24/2019	2.12
805	MW-3	Chloride Dissolved	mg/L	09/17/2019	10.2
805	MW-3	Chloride Dissolved	mg/L	10/22/2019	18.8
805	MW-3	Chloride Dissolved	mg/L	06/16/2020	11.2
805	MW-3	Chloride Dissolved	mg/L	09/10/2020	9.38
805	MW-3	Chloride Dissolved	mg/L	06/07/2021	6.58
805	MW-3	Chloride Dissolved	mg/L	08/17/2021	4.84
805	MW-3	Chloride Dissolved	mg/L	05/11/2022	3.24
805	MW-3	Chloride Dissolved	mg/L	07/20/2022	3.27
805	MW-3	Chloride Dissolved	mg/L	06/07/2023	2.45
805	MW-3	Chloride Dissolved	mg/L	08/15/2023	2.45

805	MW-3	00166014	Depth To Groundwater	feet	03/20/2019	25
805	MW-3	00166014	Depth To Groundwater	feet	06/24/2019	24.45
805	MW-3	00166014	Depth To Groundwater	feet	09/17/2019	25
805	MW-3	00166014	Depth To Groundwater	feet	10/22/2019	24.41
805	MW-3	00166014	Depth To Groundwater	feet	06/16/2020	24.75
805	MW-3	00166014	Depth To Groundwater	feet	09/10/2020	25.71
805	MW-3	00166014	Depth To Groundwater	feet	06/07/2021	27
805	MW-3	00166014	Depth To Groundwater	feet	08/17/2021	25.32
805	MW-3	00166014	Depth To Groundwater	feet	05/11/2022	25.4
805	MW-3	00166014	Depth To Groundwater	feet	07/20/2022	25.4
805	MW-3	00166014	Depth To Groundwater	feet	06/07/2023	25.8
805	MW-3	00166014	Depth To Groundwater	feet	08/15/2023	25.8

805	MW-3	00227094	Groundwater Elevation	feet MSL	03/20/2019	658.61
805	MW-3	00227094	Groundwater Elevation	feet MSL	06/24/2019	659.16
805	MW-3	00227094	Groundwater Elevation	feet MSL	09/17/2019	658.61
805	MW-3	00227094	Groundwater Elevation	feet MSL	10/22/2019	659.2
805	MW-3	00227094	Groundwater Elevation	feet MSL	06/16/2020	658.86
805	MW-3	00227094	Groundwater Elevation	feet MSL	09/10/2020	657.9
805	MW-3	00227094	Groundwater Elevation	feet MSL	06/07/2021	656.61
805	MW-3	00227094	Groundwater Elevation	feet MSL	08/17/2021	658.29
805	MW-3	00227094	Groundwater Elevation	feet MSL	05/11/2022	658.21
805	MW-3	00227094	Groundwater Elevation	feet MSL	07/20/2022	658.21
805	MW-3	00227094	Groundwater Elevation	feet MSL	06/07/2023	657.81
805	MW-3	00227094	Groundwater Elevation	feet MSL	08/15/2023	657.81

well		param	unit_type	sample_date		result_amt
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	03/20/2019	<	0.14
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/24/2019		0.14
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	<	0.14
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	10/22/2019	<	0.14
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		0.15
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	<	0.12
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	<	0.12
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	<	0.12
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022		0.44
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022		0.12
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023		0.12
805	MW-3	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023		0.12
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/20/2019		2.67
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/24/2019		0.76
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019		1.59
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/22/2019		2.4
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020		6.34
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020		6.6
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021		9.97
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021		9.78
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022		12.6
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022		10.2
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023		6.7
805	MW-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023		6.7
805	MW-3	Nitrogen, Organic Dissolved	mg/L	03/20/2019		0.22
805	MW-3	Nitrogen, Organic Dissolved	mg/L	06/24/2019		0.17
805	MW-3	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
805	MW-3	Nitrogen, Organic Dissolved	mg/L	10/22/2019	<	0.42
805	MW-3	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
805	MW-3	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
805	MW-3	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
805	MW-3	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
805	MW-3	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
805	MW-3	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
805	MW-3	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.43
805	MW-3	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43

well		param	unit_type	sample_date	result_amt
805	MW-3	pH Field	su	03/20/2019	7.26
805	MW-3	pH Field	su	06/24/2019	8.03
805	MW-3	pH Field	su	09/17/2019	8.02
805	MW-3	pH Field	su	10/22/2019	7.81
805	MW-3	pH Field	su	06/16/2020	7.67
805	MW-3	pH Field	su	09/10/2020	7.71
805	MW-3	pH Field	su	06/07/2021	7.49
805	MW-3	pH Field	su	08/17/2021	7.85
805	MW-3	pH Field	su	05/11/2022	6.02
805	MW-3	pH Field	su	07/20/2022	6.53
805	MW-3	pH Field	su	06/07/2023	7.47
805	MW-3	pH Field	su	08/15/2023	7.47
805	MW-3	Solids, Total Dissolved	mg/L	03/20/2019	295
805	MW-3	Solids, Total Dissolved	mg/L	06/24/2019	155
805	MW-3	Solids, Total Dissolved	mg/L	09/17/2019	170
805	MW-3	Solids, Total Dissolved	mg/L	10/22/2019	220
805	MW-3	Solids, Total Dissolved	mg/L	06/16/2020	245
805	MW-3	Solids, Total Dissolved	mg/L	09/10/2020	264
805	MW-3	Solids, Total Dissolved	mg/L	06/07/2021	259
805	MW-3	Solids, Total Dissolved	mg/L	08/17/2021	288
805	MW-3	Solids, Total Dissolved	mg/L	05/11/2022	256
805	MW-3	Solids, Total Dissolved	mg/L	07/20/2022	240
805	MW-3	Solids, Total Dissolved	mg/L	06/07/2023	168
805	MW-3	Solids, Total Dissolved	mg/L	08/15/2023	168
806	MW-4	Chloride Dissolved	mg/L	03/20/2019	13.2
806	MW-4	Chloride Dissolved	mg/L	06/24/2019	11.2
806	MW-4	Chloride Dissolved	mg/L	09/17/2019	10.5
806	MW-4	Chloride Dissolved	mg/L	10/22/2019	10.2
806	MW-4	Chloride Dissolved	mg/L	03/24/2020	8.19
806	MW-4	Chloride Dissolved	mg/L	06/16/2020	6.42
806	MW-4	Chloride Dissolved	mg/L	09/10/2020	8.57
806	MW-4	Chloride Dissolved	mg/L	10/13/2020	8.5
806	MW-4	Chloride Dissolved	mg/L	03/25/2021	4.51
806	MW-4	Chloride Dissolved	mg/L	06/07/2021	6.77
806	MW-4	Chloride Dissolved	mg/L	08/17/2021	7.54
806	MW-4	Chloride Dissolved	mg/L	10/26/2021	5.78
806	MW-4	Chloride Dissolved	mg/L	03/16/2022	3.19
806	MW-4	Chloride Dissolved	mg/L	05/11/2022	8.88
806	MW-4	Chloride Dissolved	mg/L	07/20/2022	9.11
806	MW-4	Chloride Dissolved	mg/L	10/11/2022	10.5
806	MW-4	Chloride Dissolved	mg/L	03/22/2023	16.4
806	MW-4	Chloride Dissolved	mg/L	06/07/2023	6.53
806	MW-4	Chloride Dissolved	mg/L	08/15/2023	11
806	MW-4	Chloride Dissolved	mg/L	10/17/2023	15
806	MW-4	Chloride Dissolved	mg/L	03/21/2024	5

well		param	unit_type	sample_date		result_amt
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/20/2019	<	0.14
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	06/24/2019	<	0.14
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	09/17/2019	<	0.14
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	10/22/2019	<	0.14
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/24/2020	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	10/13/2020	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/25/2021	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021		0.15
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	10/26/2021	<	0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/16/2022		0.13
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	10/11/2022		0.06
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/22/2023		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	10/17/2023		0.12
806	MW-4	Nitrogen, Ammonia Dissolved	mg/L	03/21/2024		0.1

806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/20/2019	20.3
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/24/2019	19.3
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/17/2019	18
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/22/2019	16.8
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/24/2020	14.2
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	16.4
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	15.8
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/13/2020	17.2
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/25/2021	11.6
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	75.4
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	13
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/26/2021	10.8
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/16/2022	8.21
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	20.7
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	21.2
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/11/2022	16.3
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2023	28.1
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	6.78
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	18.3
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/17/2023	9.09
806	MW-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2024	12.2

well		param	unit_type	sample_date		result_amt
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/20/2019		0.46
806	MW-4	Nitrogen, Organic Dissolved	mg/L	06/24/2019		0.22
806	MW-4	Nitrogen, Organic Dissolved	mg/L	09/17/2019	<	0.42
806	MW-4	Nitrogen, Organic Dissolved	mg/L	10/22/2019	<	0.42
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/24/2020	<	0.44
806	MW-4	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
806	MW-4	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
806	MW-4	Nitrogen, Organic Dissolved	mg/L	10/13/2020	<	0.44
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/25/2021	<	0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	10/26/2021	<	0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/16/2022		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	10/11/2022		0.51
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/22/2023		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.46
806	MW-4	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	10/17/2023		0.43
806	MW-4	Nitrogen, Organic Dissolved	mg/L	03/21/2024		0.7

806	MW-4	pH Field	su	03/20/2019		7.2
806	MW-4	pH Field	su	06/24/2019		7.88
806	MW-4	pH Field	su	09/17/2019		7.7
806	MW-4	pH Field	su	10/22/2019		7.82
806	MW-4	pH Field	su	03/24/2020		7.92
806	MW-4	pH Field	su	06/16/2020		7.64
806	MW-4	pH Field	su	09/10/2020		7.59
806	MW-4	pH Field	su	10/13/2020		8.05
806	MW-4	pH Field	su	03/25/2021		7.96
806	MW-4	pH Field	su	06/07/2021		7.48
806	MW-4	pH Field	su	08/17/2021		7.82
806	MW-4	pH Field	su	10/26/2021		8.22
806	MW-4	pH Field	su	03/16/2022		7.76
806	MW-4	pH Field	su	05/11/2022		5.96
806	MW-4	pH Field	su	07/20/2022		7.51
806	MW-4	pH Field	su	10/11/2022		7.6
806	MW-4	pH Field	su	03/22/2023		7.44
806	MW-4	pH Field	su	06/07/2023		7.5
806	MW-4	pH Field	su	08/15/2023		7.56
806	MW-4	pH Field	su	10/17/2023		7.61
806	MW-4	pH Field	su	03/21/2024		7.76

well		param	unit_type	sample_date	result_amt
806	MW-4	Solids, Total Dissolved	mg/L	03/20/2019	361
806	MW-4	Solids, Total Dissolved	mg/L	06/24/2019	320
806	MW-4	Solids, Total Dissolved	mg/L	09/17/2019	299
806	MW-4	Solids, Total Dissolved	mg/L	10/22/2019	266
806	MW-4	Solids, Total Dissolved	mg/L	03/24/2020	287
806	MW-4	Solids, Total Dissolved	mg/L	06/16/2020	298
806	MW-4	Solids, Total Dissolved	mg/L	09/10/2020	309
806	MW-4	Solids, Total Dissolved	mg/L	10/13/2020	327
806	MW-4	Solids, Total Dissolved	mg/L	03/25/2021	301
806	MW-4	Solids, Total Dissolved	mg/L	06/07/2021	284
806	MW-4	Solids, Total Dissolved	mg/L	08/17/2021	297
806	MW-4	Solids, Total Dissolved	mg/L	10/26/2021	198
806	MW-4	Solids, Total Dissolved	mg/L	03/16/2022	205
806	MW-4	Solids, Total Dissolved	mg/L	05/11/2022	314
806	MW-4	Solids, Total Dissolved	mg/L	07/20/2022	324
806	MW-4	Solids, Total Dissolved	mg/L	10/11/2022	302
806	MW-4	Solids, Total Dissolved	mg/L	03/22/2023	355
806	MW-4	Solids, Total Dissolved	mg/L	06/07/2023	188
806	MW-4	Solids, Total Dissolved	mg/L	08/15/2023	317
806	MW-4	Solids, Total Dissolved	mg/L	10/17/2023	260
806	MW-4	Solids, Total Dissolved	mg/L	03/21/2024	245
808	MP-1	Chloride Dissolved	mg/L	03/24/2020	2.75
808	MP-1	Chloride Dissolved	mg/L	06/16/2020	2.89
808	MP-1	Chloride Dissolved	mg/L	09/10/2020	1.8
808	MP-1	Chloride Dissolved	mg/L	10/13/2020	1.57
808	MP-1	Chloride Dissolved	mg/L	03/25/2021	5.02
808	MP-1	Chloride Dissolved	mg/L	06/07/2021	5.83
808	MP-1	Chloride Dissolved	mg/L	08/17/2021	3.3
808	MP-1	Chloride Dissolved	mg/L	10/26/2021	9.15
808	MP-1	Chloride Dissolved	mg/L	03/16/2022	13.1
808	MP-1	Chloride Dissolved	mg/L	05/11/2022	15.1
808	MP-1	Chloride Dissolved	mg/L	07/20/2022	13.5
808	MP-1	Chloride Dissolved	mg/L	10/11/2022	10.7
808	MP-1	Chloride Dissolved	mg/L	03/22/2023	13.1
808	MP-1	Chloride Dissolved	mg/L	06/07/2023	13.8
808	MP-1	Chloride Dissolved	mg/L	08/15/2023	6.32
808	MP-1	Chloride Dissolved	mg/L	10/17/2023	5.13
808	MP-1	Chloride Dissolved	mg/L	03/21/2024	13
				Mean	8.003529
				Standard Deviation	4.728701

well	param	unit_type	sample_date	result_amt
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	03/24/2020	0.13
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	0.15
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	< 0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	10/13/2020	< 0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	03/25/2021	< 0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	< 0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	< 0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	10/26/2021	0.22
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	03/16/2022	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	10/11/2022	0.06
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	03/22/2023	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	10/17/2023	0.12
808 MP-1	Nitrogen, Ammonia Dissolved	mg/L	03/21/2024	0.1
			Mean	0.125
			Standard Deviation	0.029494

808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/24/2020	1.51
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	1.63
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	1.35
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/13/2020	2.01
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/25/2021	3.51
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	3.49
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	2.47
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/26/2021	2.13
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/16/2022	5037
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	4.36
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	3.83
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/11/2022	3.33
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2023	3.02
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	1.98
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	3.26
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/17/2023	4.07
808 MP-1	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2024	0.45
			Mean	298.7882
			Standard Deviation	1184.553

well	param	unit_type	sample_date		result_amt
808 MP-1	Nitrogen, Organic Dissolved	mg/L	03/24/2020	<	0.44
808 MP-1	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
808 MP-1	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
808 MP-1	Nitrogen, Organic Dissolved	mg/L	10/13/2020	<	0.44
808 MP-1	Nitrogen, Organic Dissolved	mg/L	03/25/2021		0.61
808 MP-1	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	10/26/2021	<	0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	03/16/2022		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	10/11/2022		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	03/22/2023		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	06/07/2023		1.95
808 MP-1	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
808 MP-1	Nitrogen, Organic Dissolved	mg/L	10/17/2023		0.51
808 MP-1	Nitrogen, Organic Dissolved	mg/L	03/21/2024		0.5
			Mean		0.541176
			Standard Deviation		0.355162

808 MP-1	pH Field	su	03/24/2020	7.98
808 MP-1	pH Field	su	06/16/2020	7.79
808 MP-1	pH Field	su	09/10/2020	8.06
808 MP-1	pH Field	su	10/13/2020	8.01
808 MP-1	pH Field	su	03/25/2021	8.2
808 MP-1	pH Field	su	06/07/2021	7.56
808 MP-1	pH Field	su	08/17/2021	7.89
808 MP-1	pH Field	su	10/26/2021	8.29
808 MP-1	pH Field	su	03/16/2022	7.52
808 MP-1	pH Field	su	05/11/2022	6.12
808 MP-1	pH Field	su	07/20/2022	7.41
808 MP-1	pH Field	su	10/11/2022	7.44
808 MP-1	pH Field	su	03/22/2023	7.55
808 MP-1	pH Field	su	06/07/2023	7.44
808 MP-1	pH Field	su	08/15/2023	7.56
808 MP-1	pH Field	su	10/17/2023	7.68
808 MP-1	pH Field	su	03/21/2024	7.8
			Mean	7.664706

well		param	unit_type	sample_date	result_amt
808	MP-1	Solids, Total Dissolved	mg/L	03/24/2020	278
808	MP-1	Solids, Total Dissolved	mg/L	06/16/2020	267
808	MP-1	Solids, Total Dissolved	mg/L	09/10/2020	240
808	MP-1	Solids, Total Dissolved	mg/L	10/13/2020	262
808	MP-1	Solids, Total Dissolved	mg/L	03/25/2021	242
808	MP-1	Solids, Total Dissolved	mg/L	06/07/2021	220
808	MP-1	Solids, Total Dissolved	mg/L	08/17/2021	237
808	MP-1	Solids, Total Dissolved	mg/L	10/26/2021	123
808	MP-1	Solids, Total Dissolved	mg/L	03/16/2022	290
808	MP-1	Solids, Total Dissolved	mg/L	05/11/2022	226
808	MP-1	Solids, Total Dissolved	mg/L	07/20/2022	235
808	MP-1	Solids, Total Dissolved	mg/L	10/11/2022	245
808	MP-1	Solids, Total Dissolved	mg/L	03/22/2023	255
808	MP-1	Solids, Total Dissolved	mg/L	06/07/2023	203
808	MP-1	Solids, Total Dissolved	mg/L	08/15/2023	207
808	MP-1	Solids, Total Dissolved	mg/L	10/17/2023	184
808	MP-1	Solids, Total Dissolved	mg/L	03/21/2024	223
				Mean	231.5882
				Standard Deviation	37.89313
809	MP-2	Chloride Dissolved	mg/L	03/24/2020	4.66
809	MP-2	Chloride Dissolved	mg/L	06/16/2020	6.26
809	MP-2	Chloride Dissolved	mg/L	09/10/2020	4.97
809	MP-2	Chloride Dissolved	mg/L	10/13/2020	4.64
809	MP-2	Chloride Dissolved	mg/L	03/25/2021	8.24
809	MP-2	Chloride Dissolved	mg/L	06/07/2021	8.03
809	MP-2	Chloride Dissolved	mg/L	08/17/2021	1.43
809	MP-2	Chloride Dissolved	mg/L	10/26/2021	7.49
809	MP-2	Chloride Dissolved	mg/L	03/16/2022	6.79
809	MP-2	Chloride Dissolved	mg/L	05/11/2022	8.83
809	MP-2	Chloride Dissolved	mg/L	07/20/2022	10.1
809	MP-2	Chloride Dissolved	mg/L	10/11/2022	6.56
809	MP-2	Chloride Dissolved	mg/L	03/22/2023	4.18
809	MP-2	Chloride Dissolved	mg/L	06/07/2023	5.25
809	MP-2	Chloride Dissolved	mg/L	08/15/2023	6.68
809	MP-2	Chloride Dissolved	mg/L	10/17/2023	7.49
809	MP-2	Chloride Dissolved	mg/L	03/21/2024	6

well	param	unit_type	sample_date		result_amt
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	03/24/2020	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	10/13/2020	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	03/25/2021	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	<	0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	10/26/2021		0.15
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	03/16/2022		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	10/11/2022		0.06
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	03/22/2023		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	10/17/2023		0.12
809 MP-2	Nitrogen, Ammonia Dissolved	mg/L	03/21/2024		0.1

809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/24/2020	1.46
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	1.58
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	1.66
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/13/2020	1.35
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/25/2021	1.29
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	1.21
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	1.43
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/26/2021	1.8
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/16/2022	1.93
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	3.32
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	4.65
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/11/2022	5.32
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2023	7.85
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	8.92
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	8.28
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/17/2023	10.9
809 MP-2	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2024	12.1

well		param	unit_type	sample_date		result_amt
809	MP-2	Nitrogen, Organic Dissolved	mg/L	03/24/2020	<	0.44
809	MP-2	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
809	MP-2	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
809	MP-2	Nitrogen, Organic Dissolved	mg/L	10/13/2020	<	0.44
809	MP-2	Nitrogen, Organic Dissolved	mg/L	03/25/2021	<	0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	10/26/2021	<	0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	03/16/2022		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	10/11/2022		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	03/22/2023		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	10/17/2023		0.43
809	MP-2	Nitrogen, Organic Dissolved	mg/L	03/21/2024		0.7

809	MP-2	pH Field	su	03/24/2020	7.92
809	MP-2	pH Field	su	06/16/2020	7.86
809	MP-2	pH Field	su	09/10/2020	8
809	MP-2	pH Field	su	10/13/2020	7.87
809	MP-2	pH Field	su	03/25/2021	7.98
809	MP-2	pH Field	su	06/07/2021	7.37
809	MP-2	pH Field	su	08/17/2021	7.76
809	MP-2	pH Field	su	10/26/2021	8.1
809	MP-2	pH Field	su	03/16/2022	7.46
809	MP-2	pH Field	su	05/11/2022	6.14
809	MP-2	pH Field	su	07/20/2022	7.39
809	MP-2	pH Field	su	10/11/2022	7.49
809	MP-2	pH Field	su	03/22/2023	7.3
809	MP-2	pH Field	su	06/07/2023	7.26
809	MP-2	pH Field	su	08/15/2023	7.5
809	MP-2	pH Field	su	10/17/2023	7.45
809	MP-2	pH Field	su	03/21/2024	7.57

well	param	unit_type	sample_date	result_amt
809 MP-2	Solids, Total Dissolved	mg/L	03/24/2020	257
809 MP-2	Solids, Total Dissolved	mg/L	06/16/2020	259
809 MP-2	Solids, Total Dissolved	mg/L	09/10/2020	272
809 MP-2	Solids, Total Dissolved	mg/L	10/13/2020	298
809 MP-2	Solids, Total Dissolved	mg/L	03/25/2021	310
809 MP-2	Solids, Total Dissolved	mg/L	06/07/2021	317
809 MP-2	Solids, Total Dissolved	mg/L	08/17/2021	315
809 MP-2	Solids, Total Dissolved	mg/L	10/26/2021	211
809 MP-2	Solids, Total Dissolved	mg/L	03/16/2022	316
809 MP-2	Solids, Total Dissolved	mg/L	05/11/2022	308
809 MP-2	Solids, Total Dissolved	mg/L	07/20/2022	287
809 MP-2	Solids, Total Dissolved	mg/L	10/11/2022	204
809 MP-2	Solids, Total Dissolved	mg/L	03/22/2023	298
809 MP-2	Solids, Total Dissolved	mg/L	06/07/2023	282
809 MP-2	Solids, Total Dissolved	mg/L	08/15/2023	277
809 MP-2	Solids, Total Dissolved	mg/L	10/17/2023	284
809 MP-2	Solids, Total Dissolved	mg/L	03/21/2024	286
810 MP-3	Chloride Dissolved	mg/L	03/24/2020	19.3
810 MP-3	Chloride Dissolved	mg/L	06/16/2020	7.77
810 MP-3	Chloride Dissolved	mg/L	09/10/2020	11.7
810 MP-3	Chloride Dissolved	mg/L	10/13/2020	8.21
810 MP-3	Chloride Dissolved	mg/L	03/25/2021	9.31
810 MP-3	Chloride Dissolved	mg/L	06/07/2021	11.6
810 MP-3	Chloride Dissolved	mg/L	08/17/2021	11.3
810 MP-3	Chloride Dissolved	mg/L	10/26/2021	9.4
810 MP-3	Chloride Dissolved	mg/L	03/16/2022	10.9
810 MP-3	Chloride Dissolved	mg/L	05/11/2022	6.84
810 MP-3	Chloride Dissolved	mg/L	07/20/2022	12.8
810 MP-3	Chloride Dissolved	mg/L	10/11/2022	8.85
810 MP-3	Chloride Dissolved	mg/L	03/22/2023	4.95
810 MP-3	Chloride Dissolved	mg/L	06/07/2023	3.23
810 MP-3	Chloride Dissolved	mg/L	08/15/2023	2.82
810 MP-3	Chloride Dissolved	mg/L	10/17/2023	9.19
810 MP-3	Chloride Dissolved	mg/L	03/21/2024	15

well	param	unit_type	sample_date		result_amt
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	03/24/2020	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	10/13/2020	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	03/25/2021	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	10/26/2021	<	0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	03/16/2022		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	10/11/2022		0.06
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	03/22/2023		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023		0.13
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	10/17/2023		0.12
810 MP-3	Nitrogen, Ammonia Dissolved	mg/L	03/21/2024		0.1

810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/24/2020	2.57
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	1.34
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	1.99
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/13/2020	1.87
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/25/2021	1.68
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	1.92
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	2.36
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/26/2021	1.78
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/16/2022	1.99
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	1.73
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	1.81
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/11/2022	1.51
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/22/2023	1.87
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	1.47
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	1.73
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	10/17/2023	3.18
810 MP-3	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	03/21/2024	3.27

well	param	unit_type	sample_date		result_amt
810 MP-3	Nitrogen, Organic Dissolved	mg/L	03/24/2020	<	0.44
810 MP-3	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
810 MP-3	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
810 MP-3	Nitrogen, Organic Dissolved	mg/L	10/13/2020	<	0.44
810 MP-3	Nitrogen, Organic Dissolved	mg/L	03/25/2021	<	0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	10/26/2021	<	0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	03/16/2022		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	10/11/2022		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	03/22/2023		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	10/17/2023		0.43
810 MP-3	Nitrogen, Organic Dissolved	mg/L	03/21/2024		0.5

810 MP-3	pH Field	su	03/24/2020	8.07
810 MP-3	pH Field	su	06/16/2020	8.07
810 MP-3	pH Field	su	09/10/2020	7.91
810 MP-3	pH Field	su	10/13/2020	8.18
810 MP-3	pH Field	su	03/25/2021	8.1
810 MP-3	pH Field	su	06/07/2021	7.51
810 MP-3	pH Field	su	08/17/2021	7.43
810 MP-3	pH Field	su	10/26/2021	8.17
810 MP-3	pH Field	su	03/16/2022	7.65
810 MP-3	pH Field	su	05/11/2022	6.44
810 MP-3	pH Field	su	07/20/2022	7.33
810 MP-3	pH Field	su	10/11/2022	6.62
810 MP-3	pH Field	su	03/22/2023	6.45
810 MP-3	pH Field	su	06/07/2023	6.42
810 MP-3	pH Field	su	08/15/2023	6.66
810 MP-3	pH Field	su	10/17/2023	6.6
810 MP-3	pH Field	su	03/21/2024	6.64

well		param	unit_type	sample_date	result_amt
810	MP-3	Solids, Total Dissolved	mg/L	03/24/2020	160
810	MP-3	Solids, Total Dissolved	mg/L	06/16/2020	117
810	MP-3	Solids, Total Dissolved	mg/L	09/10/2020	154
810	MP-3	Solids, Total Dissolved	mg/L	10/13/2020	172
810	MP-3	Solids, Total Dissolved	mg/L	03/25/2021	172
810	MP-3	Solids, Total Dissolved	mg/L	06/07/2021	174
810	MP-3	Solids, Total Dissolved	mg/L	08/17/2021	200
810	MP-3	Solids, Total Dissolved	mg/L	10/26/2021	151
810	MP-3	Solids, Total Dissolved	mg/L	03/16/2022	213
810	MP-3	Solids, Total Dissolved	mg/L	05/11/2022	153
810	MP-3	Solids, Total Dissolved	mg/L	07/20/2022	149
810	MP-3	Solids, Total Dissolved	mg/L	10/11/2022	127
810	MP-3	Solids, Total Dissolved	mg/L	03/22/2023	153
810	MP-3	Solids, Total Dissolved	mg/L	06/07/2023	60
810	MP-3	Solids, Total Dissolved	mg/L	08/15/2023	64
810	MP-3	Solids, Total Dissolved	mg/L	10/17/2023	173
810	MP-3	Solids, Total Dissolved	mg/L	03/21/2024	149
811	MP-4	Chloride Dissolved	mg/L	06/16/2020	0.99
811	MP-4	Chloride Dissolved	mg/L	09/10/2020	2.67
811	MP-4	Chloride Dissolved	mg/L	06/07/2021	90.7
811	MP-4	Chloride Dissolved	mg/L	08/17/2021	9.16
811	MP-4	Chloride Dissolved	mg/L	05/11/2022	4.68
811	MP-4	Chloride Dissolved	mg/L	07/20/2022	4.1
811	MP-4	Chloride Dissolved	mg/L	06/07/2023	4.55
811	MP-4	Chloride Dissolved	mg/L	08/15/2023	4.55
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	06/16/2020 <	0.12
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	09/10/2020 <	0.12
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	06/07/2021 <	0.12
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	08/17/2021	0.2
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	05/11/2022	0.44
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	07/20/2022	0.12
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	06/07/2023	0.13
811	MP-4	Nitrogen, Ammonia Dissolved	mg/L	08/15/2023	0.13
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/16/2020	2.46
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	09/10/2020	8.74
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2021	1
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/17/2021	15.4
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	05/11/2022	11.2
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	07/20/2022	9.91
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	06/07/2023	9.41
811	MP-4	Nitrogen, Nitrite + Nitrate (as N) Dissolved	mg/L	08/15/2023	9.41

well	param	unit_type	sample_date		result_amt
811 MP-4	Nitrogen, Organic Dissolved	mg/L	06/16/2020	<	0.44
811 MP-4	Nitrogen, Organic Dissolved	mg/L	09/10/2020	<	0.44
811 MP-4	Nitrogen, Organic Dissolved	mg/L	06/07/2021	<	0.43
811 MP-4	Nitrogen, Organic Dissolved	mg/L	08/17/2021	<	0.43
811 MP-4	Nitrogen, Organic Dissolved	mg/L	05/11/2022		0.43
811 MP-4	Nitrogen, Organic Dissolved	mg/L	07/20/2022		0.43
811 MP-4	Nitrogen, Organic Dissolved	mg/L	06/07/2023		0.43
811 MP-4	Nitrogen, Organic Dissolved	mg/L	08/15/2023		0.43
811 MP-4	pH Field	su	06/16/2020		7.57
811 MP-4	pH Field	su	09/10/2020		7.72
811 MP-4	pH Field	su	06/07/2021		7.3
811 MP-4	pH Field	su	08/17/2021		6.9
811 MP-4	pH Field	su	05/11/2022		6.21
811 MP-4	pH Field	su	07/20/2022		6.1
811 MP-4	pH Field	su	06/07/2023		6.11
811 MP-4	pH Field	su	08/15/2023		6.11
811 MP-4	Solids, Total Dissolved	mg/L	06/16/2020		139
811 MP-4	Solids, Total Dissolved	mg/L	09/10/2020		222
811 MP-4	Solids, Total Dissolved	mg/L	06/07/2021		424
811 MP-4	Solids, Total Dissolved	mg/L	08/17/2021		268
811 MP-4	Solids, Total Dissolved	mg/L	05/11/2022		152
811 MP-4	Solids, Total Dissolved	mg/L	07/20/2022		162
811 MP-4	Solids, Total Dissolved	mg/L	06/07/2023		190
811 MP-4	Solids, Total Dissolved	mg/L	08/15/2023		190
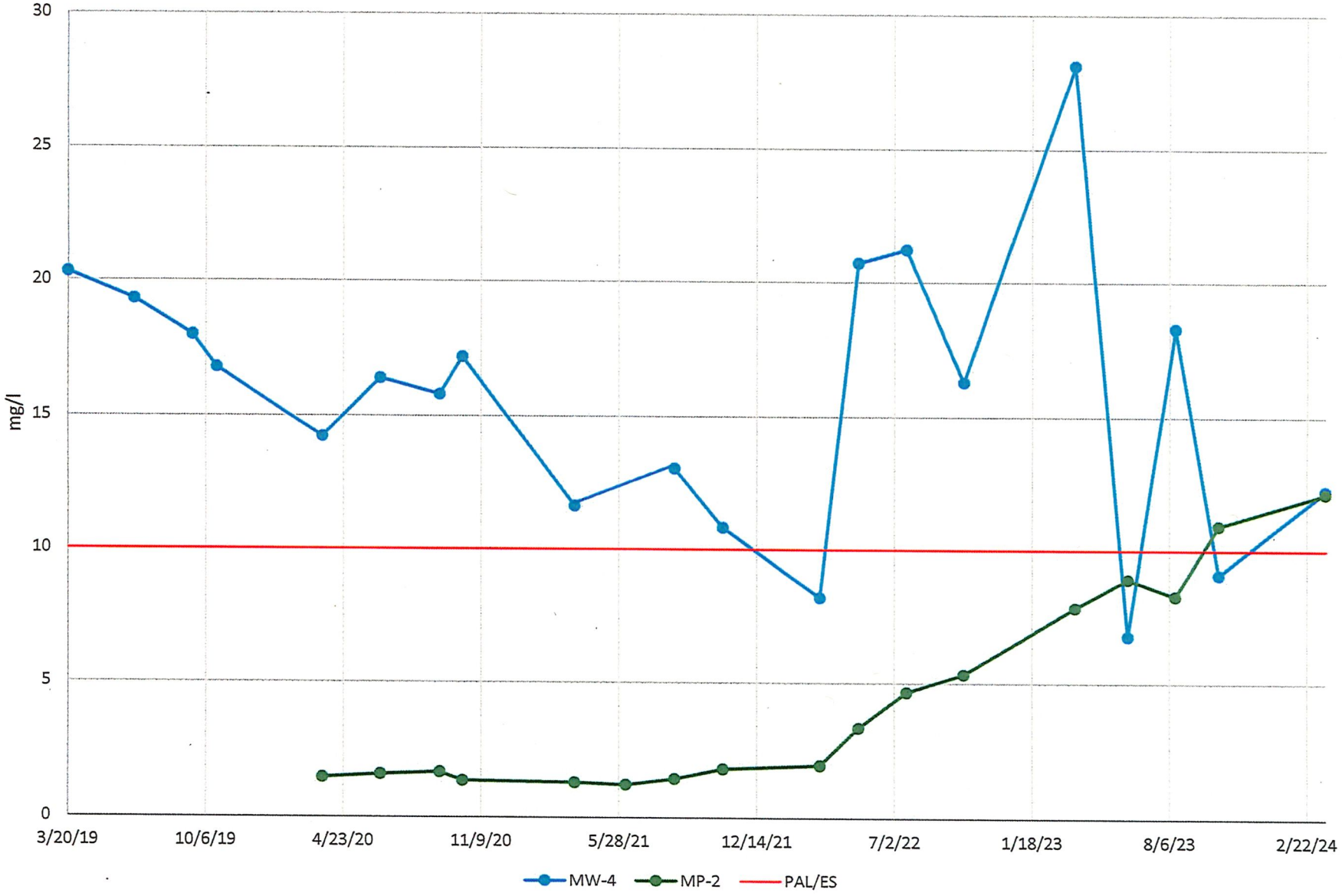
Figure 1
Nitrite + Nitrate