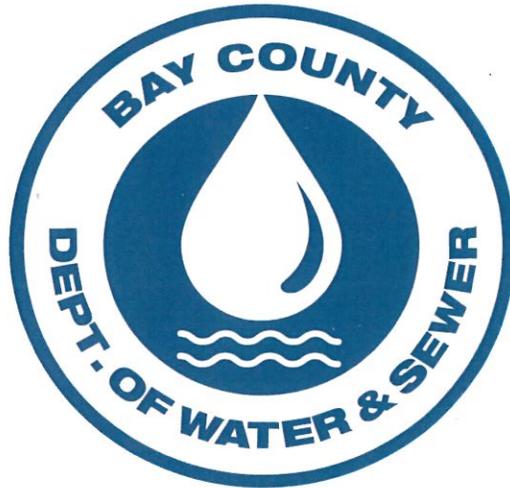


Bay Area WTP

Monthly Operations Report



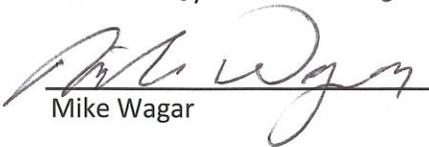
January, 2026

Water Systems Serial Number: 0465


Carl J. Overly

Water Plant Superintendent
Title

F-1, S-3, D-3
Classification


Mike Wagar

Operations Supervisor
Title

F-1, S-4
Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
 WSSN: 0465

Carl J. Overly
 Operator-in-charge

January, 2026
 Month, Year

F-1, S-3, D-3
 Certification of Operator-in-charge

F-1
 Water Plant Classification

20001
 Operator Identification Number for Operator-in-charge

Bay
 County

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>7.1</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>14.60</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>30.36</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,922</u>	Gallons	Estimated Supply:	<u>98.3</u>	days
Caustic Soda on hand:	<u>2,442</u>	Gallons	Estimated Supply:	<u>167.3</u>	days
Corrosion Inhibitor on hand:	<u>755</u>	Gallons	Estimated Supply:	<u>36.3</u>	days
Hydrofluosilicic Acid on hand:	<u>1,052</u>	Gallons	Estimated Supply:	<u>65.4</u>	days
Aluminum Chlorohydrate on hand:	<u>396</u>	Gallons	Estimated Supply:	<u>120.7</u>	days
Sulfuric Acid on hand:	<u>541</u>	Gallons	Estimated Supply:	<u>270.7</u>	days
Sodium Bisulfite on hand:	<u>313</u>	Gallons	Estimated Supply:	<u>108.0</u>	days
Citric Acid on hand:	<u>2,497</u>	Gallons	Estimated Supply:	<u>199.7</u>	days
Cost of All Chemicals per Million Gallons:	<u>95.67</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>1,044.86</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>34.68</u>	Mcf

Remarks

Number of periods of filter confluence turbidity samples > 0.3 NTU 0

Percent of membrane period confluence samples > 0.3 NTU: 0.00%

Was continuous (every 15 minutes) filter monitoring equipment off-line during the month? No
 If yes, indicate date(s), duration, and individual filter grab sampling frequency on a separate sheet.

Did POE disinfectant residual fall below 0.2 ppm during the month? No
 If yes, indicate date(s) and duration on a separate sheet.

Was minimum C*T credit achieved for the entire month? Yes
 If no, indicate on a separate sheet the date(s) not achieved.

Was continuous POE chlorine residual monitoring equipment off-line during the month? No
 If yes, date(s) and duration will be indicated on the rule page.

Notes

The plant is operated with fixed flow setpoints to ensure the production from each skid is maximized.
 On January 16th, it was observed that Skids 8 was struggling to achieve the flow setpoint of 1,800 GPM.
 This struggle persisted over the weekend and the flow setpoint was reduced to 1,600 GPM.
 This struggle is largely due to the low water temps we are currently experiencing.
 This change in flow setpoints is very noticeable when looking at the flux values of the skids.

Bay Area WTP Monthly Operating Report

Date	Flows								
	Raw Water (MG)			Clarified (MG)	Sludge (MG)	Treated (MG)	Finished Water Pumped (MG)		
	N. Euclid	Lauria Road	Total	Total	Total	Total	N. Euclid	Lauria Road	Total
	FIT-1000-1	FIT-1000-2	Calculated	FIT-5520-1	FIT-5180	FIT-4000-1	FIT-4040-1	FIT-4040-2	Calculated
1/1/2026	0.00	7.45	7.45	0.15	0.08	5.97	2.80	2.43	5.23
1/2/2026	0.00	6.88	6.88	0.17	0.08	6.80	3.21	2.87	6.07
1/3/2026	0.00	5.61	5.61	0.13	0.10	6.26	3.01	2.67	5.68
1/4/2026	0.00	6.62	6.62	0.16	0.08	6.58	3.20	2.87	6.07
1/5/2026	0.00	6.55	6.55	0.19	0.08	7.01	3.31	2.92	6.23
1/6/2026	0.00	6.71	6.71	0.15	0.08	6.31	2.95	2.58	5.53
1/7/2026	0.00	6.85	6.85	0.17	0.08	6.91	3.34	2.95	6.28
1/8/2026	0.00	6.48	6.48	0.18	0.08	6.79	3.27	2.88	6.15
1/9/2026	0.00	6.89	6.89	0.17	0.08	6.46	3.07	2.71	5.77
1/10/2026	0.00	6.52	6.52	0.17	0.08	6.68	3.15	2.77	5.92
1/11/2026	0.00	6.27	6.27	0.17	0.08	6.52	3.16	2.80	5.96
1/12/2026	0.00	6.52	6.52	0.17	0.08	6.75	3.19	2.78	5.96
1/13/2026	0.00	6.93	6.93	0.16	0.08	6.29	3.15	2.73	5.88
1/14/2026	0.00	6.47	6.47	0.16	0.08	6.33	3.05	2.65	5.70
1/15/2026	0.00	6.76	6.76	0.15	0.12	6.97	3.29	2.93	6.23
1/16/2026	0.00	7.12	7.12	0.16	0.08	6.47	3.02	2.65	5.68
1/17/2026	0.00	6.23	6.23	0.13	0.10	6.31	2.95	2.60	5.55
1/18/2026	0.00	5.78	5.78	0.16	0.08	6.60	3.23	2.78	6.01
1/19/2026	0.00	6.83	6.83	0.18	0.08	6.47	3.16	2.80	5.96
1/20/2026	0.00	7.00	7.00	0.21	0.08	7.06	3.23	2.90	6.13
1/21/2026	0.00	6.59	6.59	0.15	0.08	6.20	3.05	2.68	5.73
1/22/2026	0.00	6.18	6.18	0.18	0.08	6.70	3.14	2.79	5.94
1/23/2026	0.00	6.55	6.55	0.17	0.08	6.52	3.14	2.78	5.92
1/24/2026	0.00	6.81	6.81	0.17	0.08	7.03	3.32	2.99	6.32
1/25/2026	0.00	7.10	7.10	0.18	0.08	7.07	3.31	3.00	6.31
1/26/2026	0.00	6.97	6.97	0.20	0.08	6.72	3.28	2.96	6.25
1/27/2026	0.00	7.20	7.20	0.19	0.08	6.92	3.30	2.92	6.22
1/28/2026	0.00	6.95	6.95	0.19	0.08	7.05	3.43	2.97	6.39
1/29/2026	0.00	6.67	6.67	0.19	0.08	6.96	3.28	2.87	6.15
1/30/2026	0.00	7.21	7.21	0.18	0.08	6.98	3.36	3.00	6.35
1/31/2026	0.00	7.22	7.22	0.17	0.08	6.98	3.42	2.95	6.37
Total	0.00	207.92	207.92	5.22	2.48	206.67	98.77	87.16	185.93
Avg	0.00	6.71	6.71	0.17	0.08	6.67	3.19	2.81	6.00
Min	0.00	5.61	5.61	0.13	0.08	5.97	2.80	2.43	5.23
Max	0.00	7.45	7.45	0.21	0.12	7.07	3.43	3.00	6.39

Recovery Process Efficiency
Sludge Flow / Recovery Flow
32.2%

Facility Water Efficiency		
Waste (MG)	Treated (MG)	T/W (G)
8.19	206.67	25.2

Raw Water Analysis								
Date	Temp	pH	Turbidity		F	Free Cl	Bacti	
	Average	Average	Average	Maximum	Grab	Average	Positive/Negative	
	°C		NTU		mg/L	mg/L	Total Coliform	E. coli
	TIT-1000	AIT-1000-2	AIT-1000-1		Lab - Mem Feed	AIT-1035-2	Lab	
1/1/2026	3.5	7.96	0.76	1.14	0.07	0.51	Negative	Negative
1/2/2026	3.6	7.96	0.54	0.66	0.08	0.53	Negative	Negative
1/3/2026	3.6	7.95	0.54	0.73	0.07	0.58	Negative	Negative
1/4/2026	3.5	7.97	0.58	1.43	0.07	0.52	Negative	Negative
1/5/2026	3.4	7.97	0.34	0.49	0.07	0.54	Negative	Negative
1/6/2026	3.8	7.97	0.20	0.39	0.07	0.46	Negative	Negative
1/7/2026	4.6	7.97	0.17	0.32	0.07	0.47	Negative	Negative
1/8/2026	4.8	7.91	0.19	2.40	0.08	0.45	Negative	Negative
1/9/2026	4.8	7.85	0.17	0.19	0.09	0.48	Negative	Negative
1/10/2026	4.1	7.83	0.21	0.32	0.09	0.49	Negative	Negative
1/11/2026	3.8	7.82	0.26	0.35	0.09	0.51	Negative	Negative
1/12/2026	3.8	7.83	0.20	0.22	0.08	0.50	Negative	Negative
1/13/2026	3.9	7.93	0.25	0.37	0.08	0.48	Negative	Negative
1/14/2026	4.0	7.93	0.21	0.25	0.08	0.45	Negative	Negative
1/15/2026	3.7	7.95	0.21	0.25	0.07	0.37	Negative	Negative
1/16/2026	3.7	7.94	1.33	4.33	0.07	0.38	Negative	Negative
1/17/2026	3.5	7.90	1.65	6.63	0.07	0.53	Negative	Negative
1/18/2026	3.3	7.92	0.71	6.23	0.07	0.48	Negative	Negative
1/19/2026	3.1	7.90	0.46	0.56	0.07	0.46	Negative	Negative
1/20/2026	3.0	7.87	0.34	0.55	0.07	0.49	Negative	Negative
1/21/2026	3.0	7.90	0.29	2.08	0.07	0.43	Negative	Negative
1/22/2026	2.9	7.85	0.30	0.40	0.07	0.55	Negative	Negative
1/23/2026	2.8	7.83	0.23	0.40	0.07	0.52	Negative	Negative
1/24/2026	2.8	7.83	0.28	0.38	0.07	0.52	Negative	Negative
1/25/2026	2.8	7.85	0.30	0.42	0.07	0.41	Negative	Negative
1/26/2026	2.3	7.86	0.24	1.01	0.07	0.37	Negative	Negative
1/27/2026	2.2	7.85	0.20	0.23	0.07	0.42	Negative	Negative
1/28/2026	2.1	7.84	0.17	0.21	0.07	0.42	Negative	Negative
1/29/2026	2.2	7.85	0.18	0.46	0.08	0.41	Negative	Negative
1/30/2026	2.2	7.86	0.18	0.46	0.08	0.38	Negative	Negative
1/31/2026	2.4	7.93	0.29	0.53	0.08	0.37	Negative	Negative
Avg	3.3	7.90	0.39	1.11	0.08	0.47	NA	NA
Min	2.1	7.82	0.17	0.19	0.07	0.37	NA	NA
Max	4.8	7.97	1.65	6.63	0.09	0.58	NA	NA
					F Ratio, Raw/Tap:			
					10.8			

Finished Water Analysis																			
Date	Temp	pH	Phosphate	Fluoride		Free Cl ₂	Hardness	Alkalinity (as CaCO ₃)		Chloride	Sulfate	Calcium (as CaCO ₃)	Dissolved Oxygen	Conductivity	Langelier Saturation Index	Chloride: Sulfate Mass Ratio	Larson-Skold Index	Bacteriological	
	Average	Average	Average	Tap	Dist	Average	Grab	Carbonate	Bicarbonate	Grab	Grab	Grab	Grab	Grab				Positive/Negative	
	°C		mg/L	mg/L		mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	uS/cm				Total Coliform
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab	Lab		Lab	Lab	Lab	Lab	Lab	Calculated			Lab	
1/1/2026	4.1	7.63	3.34	0.69		1.02	102.00	0	78	9	9	74	13.1	243	-0.96	1.04	0.36	Negative	Negative
1/2/2026	4.0	7.63	3.35	0.69		1.02	100.00	0	76	9	9	76	11.6	242	-0.97	1.02	0.36	Negative	Negative
1/3/2026	4.1	7.62	3.35	0.68		1.00	100.00	0	76	9	8	78	13.8	242	-0.96	1.14	0.34	Negative	Negative
1/4/2026	4.1	7.61	3.38	0.69		1.00	100.00	0	77	9	8	76	16.0	240	-0.98	1.18	0.34	Negative	Negative
1/5/2026	3.9	7.61	3.38	0.70	0.70	1.03	98.00	0	77	9	8	78	17.8	241	-0.97	1.14	0.34	Negative	Negative
1/6/2026	3.9	7.60	3.38	0.69		0.99	100.00	0	77	9	9	76	15.5	243	-0.99	1.01	0.35	Negative	Negative
1/7/2026	3.9	7.60	3.37	0.71		1.01	102.00	0	78	9	10	74	15.6	238	-0.99	0.85	0.35	Negative	Negative
1/8/2026	3.9	7.55	3.39	0.69		1.00	104.00	0	75	10	11	80	15.2	236	-1.03	0.92	0.42	Negative	Negative
1/9/2026	4.2	7.50	3.35	0.73		0.99	102.00	0	75	10	12	78	12.9	238	-1.08	0.86	0.44	Negative	Negative
1/10/2026	4.1	7.49	3.36	0.71		0.99	104.00	0	74	10	10	76	13.2	211	-1.10	1.03	0.41	Negative	Negative
1/11/2026	4.1	7.51	3.36	0.69		1.01	102.00	0	76	11	9	78	13.1	209	-1.06	1.18	0.39	Negative	Negative
1/12/2026	4.1	7.57	3.36	0.68	0.71	1.02	102.00	0	79	11	11	72	10.5	210	-1.02	0.99	0.42	Negative	Negative
1/13/2026	4.0	7.56	3.36	0.69		1.01	98.00	0	76	10	11	72	8.4	206	-1.05	0.94	0.42	Negative	Negative
1/14/2026	4.0	7.55	3.36	0.69		1.01	106.00	0	74	11	11	76	13.2	220	-1.05	0.99	0.45	Negative	Negative
1/15/2026	4.0	7.55	3.35	0.68		1.00	98.00	0	76	9	9	74	14.2	221	-1.05	1.04	0.37	Negative	Negative
1/16/2026	4.0	7.55	3.35	0.69		0.99	98.00	0	75	9	8	72	13.7	224	-1.07	1.16	0.35	Negative	Negative
1/17/2026	4.0	7.55	3.35	0.70		1.02	100.00	0	76	10	9	74	13.6	223	-1.05	1.06	0.37	Negative	Negative
1/18/2026	3.9	7.54	3.35	0.70		1.03	100.00	0	77	9	8	76	13.5	222	-1.04	1.16	0.34	Negative	Negative
1/19/2026	3.6	7.54	3.35	0.70	0.68	1.01	98.00	0	76	9	9	76	13.9	222	-1.06	0.96	0.35	Negative	Negative
1/20/2026	3.4	7.53	3.35	0.71		1.02	100.00	0	75	9	9	74	13.9	224	-1.09	1.03	0.37	Negative	Negative
1/21/2026	3.3	7.54	3.35	0.69		1.01	104.00	0	78	10	10	74	13.8	227	-1.07	0.98	0.38	Negative	Negative
1/22/2026	3.3	7.53	3.35	0.69		1.00	100.00	0	78	10	10	74	8.0	222	-1.08	1.00	0.39	Negative	Negative
1/23/2026	3.2	7.53	3.34	0.69		1.04	102.00	0	76	10	10	76	9.1	223	-1.08	1.02	0.40	Negative	Negative
1/24/2026	3.1	7.52	3.33	0.68		1.00	100.00	0	78	10	10	76	10.7	223	-1.08	1.00	0.39	Negative	Negative
1/25/2026	3.1	7.52	3.33	0.70		0.99	100.00	0	76	10	9	78	11.2	226	-1.09	1.13	0.38	Negative	Negative
1/26/2026	2.5	7.52	3.34	0.71	0.68	0.99	102.00	0	78	10	11	72	13.3	224	-1.12	0.95	0.41	Negative	Negative
1/27/2026	2.3	7.53	3.34	0.69		1.00	102.00	0	76	11	11	72	13.7	228	-1.13	0.99	0.43	Negative	Negative
1/28/2026	2.3	7.53	3.34	0.69		1.01	104.00	0	75	11	10	70	13.7	225	-1.14	1.11	0.43	Negative	Negative
1/29/2026	2.4	7.52	3.34	0.71		1.00	102.00	0	78	9	9	76	14.6	229	-1.10	0.98	0.34	Negative	Negative
1/30/2026	2.3	7.52	3.32	0.70		1.00	102.00	0	78	9	8	74	14.6	231	-1.12	1.14	0.33	Negative	Negative
1/31/2026	2.3	7.53	3.33	0.70		1.02	102.00	0	79	9	9	74	14.8	233	-1.10	0.97	0.34	Negative	Negative
Avg	3.5	7.55	3.35	0.70	0.69	1.01	101.10	0	77	10	10	75	13.2	227	-1.05	1.03	0.38	NA	NA
Min	2.3	7.49	3.32	0.68	0.68	0.99	98.00	0	74	9	8	70	8.0	206	-1.14	0.85	0.33	NA	NA
Max	4.2	7.63	3.39	0.73	0.71	1.04	106.00	0	79	11	12	80	17.8	243	-0.96	1.18	0.45	NA	NA

Turbidity										
Date	Raw Water		Clarified Water	Membrane Feed Water	Combined Membrane Filtrate					Finished Water
	Avg	Max	Avg	Avg	Avg	Max	# Samples	# > 0.3	% Exceeded	Avg
	NTU									
	AIT-1000-1		AIT-5030-1	AIT-1035-3	AIT-4000-1					Calculated
1/1/2026	0.76	1.14	2.02	1.01	0.026	0.028	96	0	0.0	0.027
1/2/2026	0.54	0.66	2.16	0.64	0.026	0.026	96	0	0.0	0.026
1/3/2026	0.54	0.73	1.66	0.48	0.026	0.027	96	0	0.0	0.026
1/4/2026	0.58	1.43	0.77	0.44	0.026	0.027	96	0	0.0	0.026
1/5/2026	0.34	0.49	1.03	0.34	0.026	0.026	96	0	0.0	0.026
1/6/2026	0.20	0.39	0.81	0.26	0.026	0.028	96	0	0.0	0.026
1/7/2026	0.17	0.32	0.88	0.21	0.026	0.027	96	0	0.0	0.026
1/8/2026	0.19	2.40	0.78	0.18	0.026	0.028	96	0	0.0	0.026
1/9/2026	0.17	0.19	0.72	0.16	0.026	0.029	96	0	0.0	0.025
1/10/2026	0.21	0.32	0.79	0.16	0.026	0.027	96	0	0.0	0.026
1/11/2026	0.26	0.35	0.79	0.20	0.026	0.027	96	0	0.0	0.025
1/12/2026	0.20	0.22	0.90	0.19	0.026	0.027	96	0	0.0	0.028
1/13/2026	0.25	0.37	0.85	0.20	0.026	0.027	96	0	0.0	0.026
1/14/2026	0.21	0.25	1.07	0.20	0.026	0.036	96	0	0.0	0.026
1/15/2026	0.21	0.25	1.18	0.19	0.026	0.026	96	0	0.0	0.026
1/16/2026	1.33	4.33	0.74	0.27	0.026	0.027	96	0	0.0	0.026
1/17/2026	1.65	6.63	1.07	1.25	0.026	0.026	96	0	0.0	0.026
1/18/2026	0.71	6.23	1.06	0.94	0.026	0.027	96	0	0.0	0.026
1/19/2026	0.46	0.56	1.13	0.67	0.026	0.027	96	0	0.0	0.026
1/20/2026	0.34	0.55	1.32	0.47	0.026	0.026	96	0	0.0	0.026
1/21/2026	0.29	2.08	1.02	0.37	0.026	0.027	96	0	0.0	0.026
1/22/2026	0.30	0.40	1.18	0.31	0.026	0.027	96	0	0.0	0.026
1/23/2026	0.23	0.40	2.06	0.28	0.026	0.026	96	0	0.0	0.026
1/24/2026	0.28	0.38	1.08	0.25	0.026	0.026	96	0	0.0	0.027
1/25/2026	0.30	0.42	1.23	0.27	0.026	0.026	96	0	0.0	0.026
1/26/2026	0.24	1.01	1.15	0.26	0.026	0.026	96	0	0.0	0.026
1/27/2026	0.20	0.23	1.10	0.22	0.026	0.028	96	0	0.0	0.027
1/28/2026	0.17	0.21	1.09	0.19	0.026	0.026	96	0	0.0	0.027
1/29/2026	0.18	0.46	1.22	0.17	0.026	0.028	96	0	0.0	0.026
1/30/2026	0.18	0.46	2.13	0.17	0.026	0.026	96	0	0.0	0.026
1/31/2026	0.29	0.53	1.44	0.19	0.026	0.027	96	0	0.0	0.026
Avg	0.39	1.11	1.18	0.36	0.026	0.027	96	0	0.0	0.026
Min	0.17	0.19	0.72	0.16	0.026	0.026	96	0	0.0	0.025
Max	1.65	6.63	2.16	1.25	0.026	0.036	96	0	0.0	0.028

Note: % Exceeded are 4 hr compliance periods where the average of samples are greater than 0.3 NTU

Date	Membrane LRV/Integrity/Max Turbidity																							
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8		
	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity	LRV	Integrity	Turbidity
	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU	Minimum	Maximum	NTU
1/1/2026	5.36	PASS	0.028	5.00	PASS	0.029	5.12	PASS	0.028	4.97	PASS	0.027	5.29	PASS	0.026	5.01	PASS	0.027	5.48	PASS	0.027	5.05	PASS	0.026
1/2/2026	5.39	PASS	0.027	5.01	PASS	0.029	5.13	PASS	0.028	4.95	PASS	0.027	5.21	PASS	0.026	5.01	PASS	0.026	5.55	PASS	0.027	5.16	PASS	0.026
1/3/2026	5.39	PASS	0.027	5.01	PASS	0.029	5.12	PASS	0.028	4.95	PASS	0.027	5.22	PASS	0.026	5.07	PASS	0.026	5.53	PASS	0.026	5.09	PASS	0.026
1/4/2026	5.40	PASS	0.027	5.06	PASS	0.029	5.09	PASS	0.028	4.95	PASS	0.027	5.17	PASS	0.026	5.10	PASS	0.027	5.53	PASS	0.027	5.07	PASS	0.026
1/5/2026	5.39	PASS	0.027	5.08	PASS	0.029	5.10	PASS	0.027	4.95	PASS	0.027	5.16	PASS	0.026	5.10	PASS	0.026	5.54	PASS	0.026	5.08	PASS	0.026
1/6/2026	5.37	PASS	0.027	5.06	PASS	0.029	5.11	PASS	0.028	4.98	PASS	0.027	5.20	PASS	0.026	4.87	PASS	0.026	5.53	PASS	0.026	5.18	PASS	0.026
1/7/2026	5.37	PASS	0.027	5.06	PASS	0.029	5.08	PASS	0.027	5.03	PASS	0.027	5.27	PASS	0.028	4.91	PASS	0.026	5.52	PASS	0.027	5.13	PASS	0.026
1/8/2026	5.38	PASS	0.027	5.02	PASS	0.029	5.13	PASS	0.027	5.02	PASS	0.027	5.16	PASS	0.026	4.90	PASS	0.028	5.56	PASS	0.026	4.94	PASS	0.026
1/9/2026	5.38	PASS	0.027	5.01	PASS	0.029	5.12	PASS	0.027	5.01	PASS	0.026	5.20	PASS	0.026	5.03	PASS	0.026	5.56	PASS	0.026	4.94	PASS	0.025
1/10/2026	5.37	PASS	0.027	5.02	PASS	0.029	5.14	PASS	0.027	5.00	PASS	0.027	5.22	PASS	0.026	4.88	PASS	0.026	5.49	PASS	0.026	5.05	PASS	0.026
1/11/2026	5.37	PASS	0.027	5.02	PASS	0.029	5.14	PASS	0.027	4.99	PASS	0.027	5.23	PASS	0.026	4.88	PASS	0.026	5.56	PASS	0.026	5.06	PASS	0.026
1/12/2026	5.39	PASS	0.027	5.05	PASS	0.029	5.13	PASS	0.027	4.98	PASS	0.027	5.23	PASS	0.026	5.03	PASS	0.026	5.54	PASS	0.026	5.09	PASS	0.026
1/13/2026	5.37	PASS	0.027	5.01	PASS	0.029	5.04	PASS	0.027	5.00	PASS	0.027	5.19	PASS	0.026	4.87	PASS	0.026	5.52	PASS	0.026	5.19	PASS	0.025
1/14/2026	5.37	PASS	0.027	5.04	PASS	0.029	5.16	PASS	0.027	5.00	PASS	0.027	5.15	PASS	0.026	4.90	PASS	0.026	5.51	PASS	0.026	5.12	PASS	0.026
1/15/2026	5.37	PASS	0.027	5.06	PASS	0.029	5.12	PASS	0.027	4.91	PASS	0.027	5.19	PASS	0.026	5.08	PASS	0.026	5.31	PASS	0.026	5.11	PASS	0.026
1/16/2026	5.37	PASS	0.027	5.06	PASS	0.029	5.12	PASS	0.027	4.98	PASS	0.027	5.19	PASS	0.026	5.06	PASS	0.026	5.31	PASS	0.026	5.09	PASS	0.025
1/17/2026	5.36	PASS	0.027	5.09	PASS	0.029	5.11	PASS	0.027	4.96	PASS	0.027	5.20	PASS	0.027	5.01	PASS	0.026	5.52	PASS	0.027	5.09	PASS	0.026
1/18/2026	5.34	PASS	0.028	5.12	PASS	0.029	5.11	PASS	0.027	4.96	PASS	0.027	5.17	PASS	0.026	4.99	PASS	0.026	5.51	PASS	0.026	5.11	PASS	0.026
1/19/2026	5.34	PASS	0.027	5.20	PASS	0.030	5.15	PASS	0.027	4.92	PASS	0.027	5.14	PASS	0.026	5.29	PASS	0.026	5.54	PASS	0.027	5.13	PASS	0.026
1/20/2026	5.43	PASS	0.027	5.16	PASS	0.029	5.14	PASS	0.027	5.00	PASS	0.027	5.21	PASS	0.026	5.32	PASS	0.026	5.55	PASS	0.026	5.14	PASS	0.026
1/21/2026	5.41	PASS	0.027	5.16	PASS	0.029	5.14	PASS	0.027	4.99	PASS	0.027	5.19	PASS	0.026	5.26	PASS	0.026	5.55	PASS	0.027	5.26	PASS	0.026
1/22/2026	5.39	PASS	0.027	5.16	PASS	0.029	5.17	PASS	0.027	5.09	PASS	0.027	5.13	PASS	0.026	5.28	PASS	0.026	5.55	PASS	0.027	5.25	PASS	0.026
1/23/2026	5.39	PASS	0.027	5.16	PASS	0.029	5.13	PASS	0.027	5.07	PASS	0.027	5.13	PASS	0.026	5.37	PASS	0.026	5.51	PASS	0.026	5.21	PASS	0.026
1/24/2026	5.39	PASS	0.027	5.09	PASS	0.029	5.22	PASS	0.027	5.05	PASS	0.027	5.08	PASS	0.026	5.34	PASS	0.027	5.51	PASS	0.027	5.21	PASS	0.026
1/25/2026	5.39	PASS	0.028	5.13	PASS	0.029	5.07	PASS	0.027	5.03	PASS	0.027	5.05	PASS	0.026	5.34	PASS	0.026	5.52	PASS	0.026	5.13	PASS	0.026
1/26/2026	5.36	PASS	0.027	5.11	PASS	0.029	5.05	PASS	0.027	5.03	PASS	0.027	5.04	PASS	0.027	5.07	PASS	0.026	5.54	PASS	0.027	5.12	PASS	0.026
1/27/2026	5.37	PASS	0.027	5.11	PASS	0.029	5.05	PASS	0.027	4.99	PASS	0.027	5.05	PASS	0.027	5.08	PASS	0.026	5.47	PASS	0.027	5.10	PASS	0.026
1/28/2026	5.37	PASS	0.027	5.11	PASS	0.029	5.10	PASS	0.027	4.97	PASS	0.027	5.00	PASS	0.026	5.30	PASS	0.026	5.46	PASS	0.027	5.13	PASS	0.026
1/29/2026	5.36	PASS	0.027	5.10	PASS	0.029	5.07	PASS	0.028	4.97	PASS	0.027	5.01	PASS	0.026	5.33	PASS	0.026	5.50	PASS	0.027	5.18	PASS	0.026
1/30/2026	5.36	PASS	0.028	5.09	PASS	0.029	5.07	PASS	0.027	4.96	PASS	0.027	5.12	PASS	0.026	5.11	PASS	0.026	5.50	PASS	0.027	5.21	PASS	0.026
1/31/2026	5.35	PASS	0.028	5.08	PASS	0.029	5.10	PASS	0.028	5.04	PASS	0.027	5.12	PASS	0.026	5.13	PASS	0.026	5.52	PASS	0.027	5.20	PASS	0.026
Avg	5.38		0.027	5.08		0.029	5.11		0.027	4.99		0.027	5.16		0.026	5.09		0.026	5.51		0.027	5.12		0.026
Min	5.34		0.027	5.00		0.029	5.04		0.027	4.91		0.026	5.00		0.026	4.87		0.026	5.31		0.026	4.94		0.025
Max	5.43		0.028	5.20		0.030	5.22		0.028	5.09		0.027	5.29		0.028	5.37		0.028	5.56		0.027	5.26		0.026

Note: As calculated by the manufacturer, the Upper Control Limit (UCL) for the installed membrane filtration system is 3.32 psi/min.
 Per the manufacturer's UCL calculation: Q = 1,848 gpm, ALCR = 44.6, P atm = 14.4 psi, LRC = 3, V sys = 356.9 gallons, and VCF = 1.

Operational Guidelines: We have established the following parameter values as control limits to trigger skids to be taken out of service and evaluated.

Min LRV: A value of 3.3.

Max NTU: A turbidity reading of 0.15 NTU or greater.

Flow or Q: While not shown here, a skid will be evaluated if it cannot sustain a flow above 1,000 GPM

Max Air Hold Test Result: While not shown on this page, an AHT result of 0.84 PSI/Min or greater.

In Service Dates For Modules			
Train 1		Train 2	
Skid 1	8/2024	12/2023	Skid 2
Skid 3	11/2023	7/2025	Skid 4
Skid 5	2/2023	10/2024	Skid 6
Skid 7	8/2025	1/2023	Skid 8

Treatment Chemical Dosages											
Date	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydrofluorosilicic Acid		
		Raw Water	Membrane Feed Water	Dose pre-FW Tanks	Treated Water	Post FW Tanks	Dose pre-FW Tanks	Post FW Tanks	Raw Water	Dose pre-FW Tanks	Post FW Tanks
	Volume	Free Cl ₂					PO ₄		F ⁻		
	MG	mg/L					mg/L		mg/L		
	FIT-4000-1	AIT-1035-2	AIT-1035-4	Added	AIT-4030-1	AIT-4050-1	Added	AIT-4040-5	Lab - Mem Feed	Added	Lab
1/1/2026	6.0	0.51	0.37	0.63	1.14	1.02	3.25	3.34	0.07	0.55	0.69
1/2/2026	6.8	0.53	0.41	0.54	1.09	1.02	3.16	3.35	0.08	0.55	0.69
1/3/2026	6.3	0.58	0.43	0.54	1.09	1.00	3.15	3.35	0.07	0.55	0.68
1/4/2026	6.6	0.52	0.44	0.51	1.06	1.00	3.15	3.38	0.07	0.55	0.69
1/5/2026	7.0	0.54	0.45	0.50	1.11	1.03	3.15	3.38	0.07	0.55	0.70
1/6/2026	6.3	0.46	0.43	0.50	1.05	0.99	3.15	3.38	0.07	0.55	0.69
1/7/2026	6.9	0.47	0.41	0.54	1.08	1.01	3.15	3.37	0.07	0.55	0.71
1/8/2026	6.8	0.45	0.40	0.54	1.03	1.00	3.15	3.39	0.08	0.55	0.69
1/9/2026	6.5	0.48	0.40	0.54	1.06	0.99	3.15	3.35	0.09	0.55	0.73
1/10/2026	6.7	0.49	0.40	0.54	1.08	0.99	3.15	3.36	0.09	0.52	0.71
1/11/2026	6.5	0.51	0.39	0.54	1.11	1.01	3.15	3.36	0.09	0.51	0.69
1/12/2026	6.7	0.50	0.41	0.54	1.10	1.02	3.15	3.36	0.08	0.51	0.68
1/13/2026	6.3	0.48	0.40	0.54	1.09	1.01	3.15	3.36	0.08	0.53	0.69
1/14/2026	6.3	0.45	0.39	0.54	1.08	1.01	3.15	3.36	0.08	0.53	0.69
1/15/2026	7.0	0.37	0.34	0.57	1.07	1.00	3.15	3.35	0.07	0.53	0.68
1/16/2026	6.5	0.38	0.30	0.60	1.07	0.99	3.15	3.35	0.07	0.55	0.69
1/17/2026	6.3	0.53	0.31	0.60	1.10	1.02	3.15	3.35	0.07	0.55	0.70
1/18/2026	6.6	0.48	0.35	0.56	1.06	1.03	3.15	3.35	0.07	0.55	0.70
1/19/2026	6.5	0.46	0.35	0.56	1.07	1.01	3.15	3.35	0.07	0.55	0.70
1/20/2026	7.1	0.49	0.38	0.56	1.08	1.02	3.15	3.35	0.07	0.55	0.71
1/21/2026	6.2	0.43	0.37	0.53	1.03	1.01	3.15	3.35	0.07	0.55	0.69
1/22/2026	6.7	0.55	0.38	0.57	1.07	1.00	3.15	3.35	0.07	0.55	0.69
1/23/2026	6.5	0.52	0.42	0.50	1.07	1.04	3.15	3.34	0.07	0.55	0.69
1/24/2026	7.0	0.52	0.43	0.50	1.04	1.00	3.15	3.33	0.07	0.55	0.68
1/25/2026	7.1	0.41	0.40	0.54	1.03	0.99	3.15	3.33	0.07	0.57	0.70
1/26/2026	6.7	0.37	0.32	0.59	1.05	0.99	3.15	3.34	0.07	0.57	0.71
1/27/2026	6.9	0.42	0.32	0.59	1.05	1.00	3.15	3.34	0.07	0.57	0.69
1/28/2026	7.1	0.42	0.33	0.59	1.07	1.01	3.15	3.34	0.07	0.57	0.69
1/29/2026	7.0	0.41	0.31	0.65	1.05	1.00	3.15	3.34	0.08	0.57	0.71
1/30/2026	7.0	0.38	0.33	0.65	1.06	1.00	3.15	3.32	0.08	0.57	0.70
1/31/2026	7.0	0.37	0.35	0.63	1.08	1.02	3.15	3.33	0.08	0.57	0.70
Avg	6.7	0.47	0.38	0.56	1.07	1.01	3.15	3.35	0.08	0.55	0.70
Min	6.0	0.37	0.30	0.50	1.03	0.99	3.15	3.32	0.07	0.51	0.68
Max	7.1	0.58	0.45	0.65	1.14	1.04	3.25	3.39	0.09	0.57	0.73

Disinfection CT														
Date	Pipeline CT				FW Tank CT						Compliance			
	Whitestone	Travel Time	Residual	CT	FW Tank 1	FW Tank 2	Plant	Contact Time	Free Cl ₂	CT	Total CT	Temp	CT	CT
	Flow	Min	RW	Achieved	Min Level	Min Level	Flow	Min	Min	Achieved	Achieved	Avg	Required	Met
	MGD	Minutes	mg/L	mg-min/L	ft	ft	MGD	Minutes	mg/L	mg-min/L	mg-min/L	°C	mg-min/L	Y/N
Entry	Calculated	AIT-1035-2	Calculated	LIT-4005-1	LIT-4005-2	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	AIT-4040-1	Calculated	Calculated
1/1/2026	43.0	2,910	0.51	1494	28.2	22.9	5.2	670	0.95	319	1813	4.1	12.00	Y
1/2/2026	44.5	2,814	0.53	1497	28.2	20.1	6.1	545	0.95	258	1755	4.0	12.00	Y
1/3/2026	54.4	2,300	0.58	1338	28.2	19.1	5.7	571	0.94	268	1606	4.1	12.00	Y
1/4/2026	51.1	2,449	0.52	1276	28.2	20.4	6.1	548	0.96	264	1540	4.1	12.00	Y
1/5/2026	41.5	3,016	0.54	1618	28.2	17.4	6.2	503	0.95	240	1857	3.9	12.00	Y
1/6/2026	38.4	3,259	0.46	1514	28.1	22.8	5.5	631	0.92	291	1805	3.9	12.00	Y
1/7/2026	42.2	2,967	0.47	1382	28.2	22.8	6.3	556	0.94	262	1644	3.9	12.00	Y
1/8/2026	41.3	3,028	0.45	1368	28.2	24.3	6.1	586	0.90	263	1632	3.9	12.00	Y
1/9/2026	40.7	3,076	0.48	1477	28.2	22.5	5.8	602	0.96	288	1765	4.2	12.00	Y
1/10/2026	52.1	2,403	0.49	1185	28.2	22.2	5.9	584	0.96	281	1467	4.1	12.00	Y
1/11/2026	48.5	2,580	0.51	1324	28.2	22.0	6.0	578	0.98	283	1607	4.1	12.00	Y
1/12/2026	40.5	3,090	0.50	1552	28.2	22.5	6.0	584	0.98	287	1839	4.1	12.00	Y
1/13/2026	40.1	3,122	0.48	1493	28.2	21.5	5.9	580	0.97	281	1775	4.0	12.00	Y
1/14/2026	42.3	2,959	0.45	1337	28.2	20.7	5.7	588	0.97	284	1621	4.0	12.00	Y
1/15/2026	40.6	3,084	0.37	1150	28.2	21.4	6.2	546	0.96	262	1412	4.0	12.00	Y
1/16/2026	44.4	2,815	0.38	1073	28.1	19.9	5.7	579	0.96	278	1352	4.0	12.00	Y
1/17/2026	53.0	2,360	0.53	1245	28.2	21.7	5.5	617	0.97	298	1543	4.0	12.00	Y
1/18/2026	52.1	2,401	0.48	1155	28.2	21.4	6.0	566	1.00	283	1438	3.9	12.00	Y
1/19/2026	40.3	3,104	0.46	1440	28.2	22.1	6.0	577	0.98	283	1723	3.6	12.00	Y
1/20/2026	39.4	3,175	0.49	1550	28.3	22.1	6.1	563	0.99	279	1829	3.4	12.00	Y
1/21/2026	40.8	3,069	0.43	1334	28.2	22.5	5.7	607	0.96	293	1627	3.3	12.00	Y
1/22/2026	40.9	3,062	0.55	1689	28.2	24.8	5.9	612	0.95	292	1981	3.3	12.00	Y
1/23/2026	43.2	2,895	0.52	1498	28.2	24.7	5.9	611	1.00	304	1802	3.2	12.00	Y
1/24/2026	54.7	2,287	0.52	1199	28.2	21.7	6.3	542	0.96	261	1460	3.1	12.00	Y
1/25/2026	53.6	2,335	0.41	951	28.2	22.4	6.3	549	0.96	262	1213	3.1	12.00	Y
1/26/2026	47.0	2,660	0.37	994	28.2	22.5	6.2	556	0.93	260	1254	2.5	12.00	Y
1/27/2026	41.3	3,026	0.42	1271	28.2	22.6	6.2	560	0.99	278	1549	2.3	12.00	Y
1/28/2026	39.1	3,201	0.42	1356	28.2	22.1	6.4	540	0.97	262	1618	2.3	12.00	Y
1/29/2026	40.5	3,089	0.41	1271	28.4	22.4	6.2	566	0.99	279	1550	2.4	12.00	Y
1/30/2026	47.2	2,648	0.38	994	28.4	23.9	6.4	564	0.98	276	1270	2.3	12.00	Y
1/31/2026	59.7	2,094	0.37	769	28.4	22.2	6.4	545	0.99	269	1038	2.3	12.00	Y
Avg	45.1	2,815	0.47	1316	28.2	22.0	6.0	575	0.96	277	1593	3.5	12.00	NA
Min	38.4	2,094	0.37	769	28.1	17.4	5.2	503	0.90	240	1038	2.3	12.00	NA
Max	59.7	3,259	0.58	1689	28.4	24.8	6.4	670	1.00	319	1981	4.2	12.00	NA

Notes:

Pipeline volume factor in SMMWSC to RW tank: 125,090 MG-min/day

Distribution System Monitoring																								
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl ₂)																								
WSSN:	0072	0390				0400			0470							0485				0517	0518		2180	
	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City							Bay County				Beaver Rd	Beaver Twp		Essexville	
Date	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32
1/1/2026																								
1/2/2026																								
1/3/2026																								
1/4/2026																								
1/5/2026																								
1/6/2026						0.90	0.96		0.62		0.71	0.80	0.61	0.90	0.61									1.10
1/7/2026																								
1/8/2026		0.73	0.60	0.59	0.93				0.69	0.58	0.61	0.71	0.67	0.83	0.57	0.81	0.90	0.78	1.00	0.59		0.47		
1/9/2026																								
1/10/2026																								
1/11/2026																								
1/12/2026																								
1/13/2026	0.46							1.03													0.92			1.09
1/14/2026									0.68	0.55	0.67	0.76	0.62	0.86	0.70									
1/15/2026		0.68	0.46													0.75	0.74	0.89	0.79	0.70		0.45		
1/16/2026																								
1/17/2026																								
1/18/2026																								
1/19/2026																								
1/20/2026									0.69	0.59	0.62	0.70	0.56	0.87	0.59									1.01
1/21/2026																								
1/22/2026		0.67	0.68	0.76	0.86				0.68		0.61	0.72	0.69	0.87	0.66									
1/23/2026																								
1/24/2026																								
1/25/2026																								
1/26/2026																								0.93
1/27/2026																								
1/28/2026									0.81		0.66	0.72		0.87	0.59									
1/29/2026																								
1/30/2026																								
1/31/2026																								
Average	0.46			0.70			0.96					0.69					0.80				0.92		0.46	1.03
Min	0.46			0.46			0.90					0.55					0.59				0.92		0.45	0.93
Max	0.46			0.93			1.03					0.90					1.00				0.92		0.47	1.10

MONITORING STATION ADDRESSES

- | | | |
|--|---|---|
| 1. Sample station at corner of 5758 M-25 & R | 11. Number 1 Fire Station, 1401 Center Ave | 19. Dore's M-84 Party Store, 6183 WS Saginaw Rd |
| 3. Bangor Fire Station, 3921 Wheeler | 12. Number 2 Fire Station, 1000 Fremont Ave | 20. Pump Station #13, 6000 WS Saginaw Rd |
| 4. BCDWS Admin. Bldg. 3933 Patterson Rd. | 13. Jack's Fruit Market, 1000 Salzburg Ave | 23. Rail Trail Pump Station, 366 N. Tuscola Rd. |
| 5. 7-11, 3543 S. Old Kawkawlin Rd. | 14. Number 4 Fire Station, 212 S. Dean St | 24. Little Learners Daycare, 1694 Cass Ave. |
| 6. Admiral Petroleum, 314 S Euclid Ave. | 15. Number 5 Fire Station, 1209 Smith St | 26. Wieland Contracting, 2443 S Mackinaw Rd |
| 7. Sequin Lumber, 3881 Euclid Ave | 16. Bay City Hall, 301 Washington Ave | 29. Sample Station, 2515 S. 11 Mile Rd |
| 9. Top Gun Liquor, 2981 Midland Rd | 17. Skipper Buds Marina, 1809 S Water St | 30. Sample Station, 340 W. Beaver Rd |
| 10. Little Caesars, 3475 E North Union Rd | 18. Bay Valley Animal Hospital 6015 WS Saginaw Rd | 32. Essexville City Hall, 1107 Woodside Ave |

Shading Designation Legend	
TC- / EC-	TC+
HPC	EC+

Distribution System Monitoring																												
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl ₂)																												
WSSN:	2465		2960				3565			3570		3910		4280		4440			5330		5335		5540	7125			7134	
	Date	Fraser Twp.		Hampton Twp.				Kawkawlin Twp.			Kawkawlin Met.		Linwood, LMWD		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
	34	35	36	37	38	39	40	41	42	43	45	73	74	46	48	49	52	55	58	59	61	63	65	68	69	70	72	
1/1/2026																												
1/2/2026																												
1/3/2026																												
1/4/2026																												
1/5/2026																												
1/6/2026		0.81	0.79	0.65	0.75	0.58	0.78	0.33		0.71		0.70				0.90	0.68	0.78	0.69		0.57							
1/7/2026																												
1/8/2026														0.50									0.38	0.36	0.71	0.55	0.49	
1/9/2026																												
1/10/2026																												
1/11/2026																												
1/12/2026																												
1/13/2026	0.69		0.67	0.40	0.66				0.80	0.79						0.96	0.82	0.82	0.60		0.68							
1/14/2026																												
1/15/2026														0.63										0.39	0.73	0.55		
1/16/2026																												
1/17/2026																												
1/18/2026																												
1/19/2026																												
1/20/2026				0.59	0.37	0.62																						
1/21/2026																												
1/22/2026																												
1/23/2026																												
1/24/2026																												
1/25/2026																												
1/26/2026																												
1/27/2026																												
1/28/2026																												
1/29/2026																												
1/30/2026																												
1/31/2026																												
Average	0.75		0.61				0.64			0.75		0.70		0.57		0.83			0.65		0.63		0.38		0.55		0.49	
Min	0.69		0.37				0.33			0.71		0.70		0.50		0.68			0.60		0.57		0.38		0.36		0.49	
Max	0.81		0.79				0.80			0.79		0.70		0.63		0.96			0.69		0.68		0.38		0.73		0.49	

MONITORING STATION ADDRESSES

34. Fraser Elevated Tank, 2949 1/2 N. Huron Rd	43. Speedway, 106 S. Huron Rd.	59. Marathon Gas Station, 511 S Mabel St	73. Larry Chambers, 407 W. Clara Street
35. Lloyd's Cabinet, 1947 N Huron Rd	45. Kawkawlin Restaurant, 103 S Huron Rd	61. Pinconning Meter Pit, 3005 N Huron Rd	74. Linwood Party and Sporting Goods, 211 W. Center St.
36. Shirts Mugs & More, 2728 Center Ave	46. John's Bar, 1476 S Tuscola Rd	63. Master Meter Pit, 2865 Pinconning Rd	
37. Hampton DPW, 950 Wagner Rd.	48. Tool Shed Bar, 12 W Munger Rd	65. Ike's Welding, 50 N Finn Rd	
38. Bay County Golf Course, 584 W Hampton Rd.	49. Wilder Rd Party Store, 2951 E Wilder Rd	68. Williams Township Hall, 1080 W Midland Rd	
39. Sewer Lift Station, 902 Nebobish Rd.	52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd	69. Pump Station, 490 W. Salzburg & 9 Mile Rd	
40. Bay Co. Road Commisison, 2600 E Beaver Rd	55. Auburn Fertilizer, 4640 S 7 Mile Rd	70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd	
41. Parish Rd. Elevated Tank, 1770 E. Parish Rd	58. Pinconning City Hall, 208 S Manitou St	72. Lindy's Sales, 9051 M-25	
42. Linwood Tile, 205 S Huron Rd			

Shading Designation Legend	
TC- / EC-	TC+
HPC	EC+

Distribution System Bacteriological

Water Supplier Bacteriological Analysis Report

Name of Water Supply:

Bay Area Water System - WSSN 0465

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
Bureau of Environmental Health
Water Supplier Bacteriological Analysis Report

January, 2026

DISTRIBUTION SYSTEM SAMPLES

COUNTY	COMMUNITY	WSSN	CHLORINE MONITORING			BACTERIOLOGICAL MONITORING					
			AVERAGE FREE CL ₂ RESIDUAL	SAMPLES WITH NO DETECTABLE* FREE CL ₂ RESIDUAL	PERCENT OF SAMPLES WITH NO DETECTABLE* FREE CL ₂ RESIDUAL	NUMBER OF ROUTINE SAMPLES REQUIRED	NUMBER OF SAMPLES COLLECTED	NUMBER OF POSITIVE SAMPLES	REPEAT SAMPLES REQUIRED	NUMBER OF REPEAT SAMPLES GATHERED	REPEAT SAMPLING COMPLETE
Tuscola	Akron	0072	0.46	0	0	1	1	0			
BAY	Bangor Township	0390	0.70	0	0	10	10	0			
BAY	Bangor-Monitor Dist.	0400	0.96	0	0	3	3	0			
BAY	Bay City	0470	0.69	0	0	30	38	0			
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.80	0	0	9	10	0			
BAY	Beaver Road Area	0517	0.92	0	0	1	1	0			
BAY	Beaver Township	0518	0.46	0	0	2	2	0			
BAY	Essexville	2180	1.03	0	0	4	4	0			
BAY	Fraser Township	2465	0.75	0	0	2	2	0			
BAY	Hampton Township	2960	0.61	0	0	10	10	0			
BAY	Kawkawlin Township	3565	0.64	0	0	3	3	0			
BAY	Kawkawlin Metro Dist.	3570	0.75	0	0	2	2	0			
BAY	Linwood Metro Water District	3910	0.70	0	0	1	1	0			
BAY	Merritt Township	4280	0.57	0	0	2	2	0			
BAY	Monitor Township	4440	0.83	0	0	6	6	0			
BAY	City of Pinconning	5330	0.65	0	0	2	2	0			
BAY	Pinconning Township	5335	0.63	0	0	2	2	0			
BAY	Portsmouth Township	5540	0.38	0	0	1	1	0			
BAY	Williams Township	7125	0.55	0	0	6	6	0			
Tuscola	Wisner	7134	0.49	0	0	1	1	0			

Total Distribution - Free Chlorine Samples

Repeat Bacteriological Sampling Details

Required Number of Routine Samples:	98
Total Number of Routine Samples Gathered:	107
Free Chlorine Analysis:	
Minimum Free Chlorine Residual:	0.33 mg/L
Average Free Chlorine Residual:	0.70 mg/L
Median Free Chlorine Residual:	0.69 mg/L
Maximum Free Chlorine Residual:	1.10 mg/L
Range of Free Chlorine Residual:	0.77 mg/L
Water Plant's Free Chlorine Residual at POE to Distribution:	
Minimum Free Chlorine Residual:	0.99 mg/L
Average Free Chlorine Residual:	1.01 mg/L
Maximum Free Chlorine Residual:	1.04 mg/L

If repeat samples were required, this space will be filled out to document those details.

DETECTABLE*: The detectable level of free chlorine is determined by having either a free chlorine residual greater than or equal to 0.02 mg/L at the time of sample collection or by HPC results less than or equal to 500 colony forming units (CFU) per mL.