Bay Area WTP

Monthly Operations Report

July, 2026

Water Systems Serial Number: 0465

Carl J. Overly	Water Plant Superintendent	F-1, S-3, D-2
	Title	Classification
Matt Westphal	Maintenance Supervisor	F-1, S-4
	Title	Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
WSSN: 0465

Carl J. Overly	July, 2026
Operator-in-charge	Month, Year
F-1, S-3, D-2	F-1
Certification of Operator-in-charge	Water Plant Classification
20001	Bay
Operator Identification Number for Operator-in-charge	County

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	17.4	Millions of Gallons per Day
Treatment Rate, Maximum	11.3	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	6.67	PSI
Maximum Approved Flux Rate	36.25	gpd/sq.ft.
Maximum Operating Flux Rate	29.67	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	2,398	Gallons	Estimated Supply:	23.8	days
Caustic Soda on hand:	767	Gallons	Estimated Supply:	52.6	days
Corrosion Inhibitor on hand:	598	Gallons	Estimated Supply:	20.7	days
Hydrofluosilicic Acid on hand:	507	Gallons	Estimated Supply:	23.4	days
Aluminum Chlorohydrate on hand:	857	Gallons	Estimated Supply:	148.9	days
Sulfuric Acid on hand:	218	Gallons	Estimated Supply:	108.9	days
Sodium Bisulfite on hand:	1,091	Gallons	Estimated Supply:	376.1	days
Citric Acid on hand:	1,332	Gallons	Estimated Supply:	106.5	days
Cost of All Chemicals per Million Gallons:	110.53	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	930.3	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	1.94	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? If yes, indicate date(s), duration, and individual filter grab sampling frequency on a separate sheet.	No
Did POE disinfectant residual fall below 0.2 ppm during the month? If yes, indicate date(s) and duration on a separate sheet.	No
Was minimum C*T credit achieved for the entire month? If no, indicate on a separate sheet the date(s) not achieved.	Yes
Was continuous POE chlorine residual monitoring equipment off-line during the month? If yes, date(s) and duration will be indicated on the rule page.	No

Notes

On 7/21 staff attempted to place a bulk order only to discover the supplier didn't have any in their inventory. After reaching out to multiple vendors, staff discovered the issue isn't vendor specific and the supply chain is currently disrupted. Staff discussed the issue with EGLE staff and determined the best course of action moving forward was to slow reduce the HFS feed to keep water quality as consistent as possible. The first reduction was on 7/23. The feed reduction plan was set to drop the feed rate by 0.05 mg/L every 3 days.

On 7/4, the Tap Chlorine analyzer had an air bubble disrupt the reading for 2.5 mins. The low level chlorine for the day had to be manually calculated.

On 7/31 at 18:05, Skid 5 had an air hold test go bad in a way we have never seen before. The process air valve didn't seat 100% and this allowed air to leak in during the duration of the air hold test. This produced a negative air hold test value of -0.375 psi/min. SCADA didn't know what to do with a negative air hold test value and stopped reporting LRV. SCADA didn't alarm for this event in a clear way and it went unnoticed for 4.85 hours. Skid 5 was taken out of service for the weekend and was evaluated on Monday the 3rd when the air hold issue was identified and resolved. During the 4.85 hours the skid completed 4 34 minute filtration runs, LRV for those runs was manually calculated based on pre and post air hold test results.

Bay Area WTP Monthly Operating Report

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
Date	FIT-1000-1	FIT-1000-2	Calculated	FIT-5520-1	FIT-5180	FIT-4000-1	FIT-4040-1	FIT-4040-2	Calculated
7/1/2026	3.12	7.75	10.87	0.31	0.08	11.32	5.74	4.76	10.50
7/2/2026	3.01	8.17	11.18	0.27	0.08	10.54	5.24	4.34	9.58
7/3/2026	3.50	5.65	9.15	0.29	0.08	10.16	5.18	4.15	9.32
7/4/2026	4.60	4.64	9.24	0.21	0.08	8.32	4.21	3.34	7.55
7/5/2026	4.51	3.70	8.21	0.23	0.08	8.48	4.41	3.49	7.90
7/6/2026	4.20	5.52	9.72	0.25	0.08	9.30	4.79	3.84	8.63
7/7/2026	3.41	5.14	8.55	0.25	0.09	10.04	5.01	4.02	9.03
7/8/2026	3.58	7.11	10.69	0.29	0.08	10.66	5.51	4.48	9.99
7/9/2026	3.61	6.84	10.45	0.22	0.08	8.80	4.51	3.60	8.12
7/10/2026	3.64	3.25	6.89	0.24	0.08	8.61	4.32	3.43	7.75
7/11/2026	3.95	4.75	8.70	0.20	0.08	7.74	3.99	3.19	7.18
7/12/2026	3.90	4.65	8.55	0.24	0.08	9.32	4.70	3.82	8.52
7/13/2026	3.92	6.31	10.24	0.28	0.09	10.69	5.43	4.41	9.84
7/14/2026	4.09	7.30	11.39	0.27	0.08	10.45	5.42	4.38	9.79
7/15/2026	3.74	6.93	10.66	0.29	0.08	10.36	5.34	4.34	9.68
7/16/2026	3.70	5.20	8.90	0.25	0.08	9.60	4.82	3.91	8.73
7/17/2026	3.97	5.73	9.71	0.19	0.15	9.50	4.85	3.91	8.76
7/18/2026	4.22	5.54	9.76	0.09	0.25	8.77	4.53	3.65	8.18
7/19/2026	3.72	4.23	7.95	0.10	0.25	9.32	4.74	3.86	8.60
7/20/2026	4.38	5.94	10.32	0.15	0.19	9.80	4.98	4.03	9.01
7/21/2026	4.52	5.06	9.58	0.25	0.08	8.93	4.52	3.61	8.13
7/22/2026	4.12	5.17	9.28	0.19	0.14	9.30	4.79	3.86	8.65
7/23/2026	4.10	5.95	10.04	0.23	0.08	9.08	4.66	3.75	8.41
7/24/2026	3.90	4.67	8.57	0.27	0.08	9.74	4.96	4.00	8.96
7/25/2026	4.39	5.26	9.65	0.24	0.08	9.11	4.66	3.73	8.38
7/26/2026	4.38	4.28	8.65	0.23	0.08	9.17	4.70	3.81	8.51
7/27/2026	3.87	6.21	10.09	0.28	0.08	10.15	5.17	4.12	9.29
7/28/2026	3.80	6.31	10.11	0.25	0.08	9.77	4.97	4.01	8.98
7/29/2026	3.77	5.60	9.37	0.27	0.08	9.35	4.81	3.83	8.64
7/30/2026	3.90	5.42	9.31	0.26	0.08	9.63	4.92	3.92	8.84
7/31/2026	4.07	5.49	9.57	0.25	0.08	9.22	4.76	3.76	8.51
Total	121.59	173.77	295.36	7.31	3.11	295.23	150.61	121.34	271.95
Avg	3.92	5.61	9.53	0.24	0.10	9.52	4.86	3.91	8.77
Min	3.01	3.25	6.89	0.09	0.08	7.74	3.99	3.19	7.18
Max	4.60	8.17	11.39	0.31	0.25	11.32	5.74	4.76	10.50

Recovery Process Efficiency
Sludge Flow / Recovery Flow
29.8%

Facility Water Efficiency		
Waste (MG)	Treated (MG)	T/W (G)
11.06	295.23	26.7

Raw Water Analysis								
	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
Date	TIT-1000	AIT-1000-2	AIT-1000-1		Lab - Mem Feed	AIT-1035-2	Lab	
7/1/2026	7.2	8.04	0.19	0.23	0.09	0.28	Negative	Negative
7/2/2026	7.1	8.02	0.20	0.29	0.08	0.34	Negative	Negative
7/3/2026	7.0	8.01	0.21	0.37	0.08	0.36	Negative	Negative
7/4/2026	6.8	7.98	0.18	0.20	0.07	0.52	Negative	Negative
7/5/2026	6.7	8.03	0.22	0.40	0.36	0.39	Negative	Negative
7/6/2026	7.7	8.10	0.34	0.91	0.09	0.14	Negative	Negative
7/7/2026	8.2	8.07	0.35	0.50	0.09	0.09	Positive	Negative
7/8/2026	8.3	8.00	0.32	0.58	0.08	0.19	Negative	Negative
7/9/2026	8.3	7.92	0.38	0.77	0.09	0.29	Negative	Negative
7/10/2026	8.3	7.96	0.24	0.30	0.09	0.40	Negative	Negative
7/11/2026	8.4	7.98	0.31	0.36	0.09	0.27	Negative	Negative
7/12/2026	8.7	8.02	0.30	0.34	0.09	0.14	Negative	Negative
7/13/2026	9.1	8.08	0.28	0.55	0.09	0.08	Negative	Negative
7/14/2026	8.9	7.95	0.38	0.45	0.10	0.09	Negative	Negative
7/15/2026	8.4	7.99	0.38	3.39	0.08	0.19	Negative	Negative
7/16/2026	8.0	7.99	0.27	0.59	0.09	0.33	Negative	Negative
7/17/2026	7.6	7.99	0.25	0.32	0.08	0.39	Negative	Negative
7/18/2026	7.7	8.06	0.30	0.72	0.08	0.36	Negative	Negative
7/19/2026	7.8	8.07	0.30	0.51	0.08	0.39	Negative	Negative
7/20/2026	8.3	8.04	0.23	0.57	0.08	0.36	Negative	Negative
7/21/2026	8.5	8.05	0.24	0.42	0.09	0.37	Negative	Negative
7/22/2026	8.5	8.07	0.32	0.79	0.09	0.31	Negative	Negative
7/23/2026	8.5	8.08	0.30	0.56	0.09	0.23	Negative	Negative
7/24/2026	8.6	8.07	0.34	0.52	0.09	0.27	Negative	Negative
7/25/2026	8.6	8.03	0.42	0.50	0.09	0.45	Negative	Negative
7/26/2026	8.6	8.01	0.24	0.39	0.09	0.56	Negative	Negative
7/27/2026	8.6	8.01	0.18	0.55	0.09	0.58	Negative	Negative
7/28/2026	8.5	8.01	0.18	0.29	0.09	0.59	Negative	Negative
7/29/2026	8.5	8.02	0.23	0.95	0.09	0.54	Negative	Negative
7/30/2026	8.7	8.01	0.19	0.27	0.09	0.48	Negative	Negative
7/31/2026	8.9	8.08	0.28	0.31	0.08	0.38	Negative	Negative
Avg	8.2	8.02	0.28	0.58	0.10	0.33	Positive Count	
Min	6.7	7.92	0.18	0.20	0.07	0.08	Total Coliform	E. coli
Max	9.1	8.10	0.42	3.39	0.36	0.59	1	0
					F^- Ratio, Raw/Tap:			
					14.5			

Finished Water Analysis

Date	Temp °C Average AIT-4040-1	pH Average AIT-4050-2	Phosphate mg/L Average AIT-4040-5	Fluoride mg/L Tap Lab	Fluoride mg/L Dist	Free Cl_2 mg/L Average AIT-4050-1	Hardness mg/L Grab Lab	Alkalinity (as $CaCO_3$) mg/L Carbonate Lab	Alkalinity (as $CaCO_3$) mg/L Bicarbonate Lab	Chloride mg/L Grab Lab	Sulfate mg/L Grab Lab	Calcium (as CaCO3) mg/L Grab Lab	Dissolved Oxygen mg/L Grab Lab	Conductivity uS/cm Grab Lab	Langelier Saturation Index Calculated	Chloride: Sulfate Mass Ratio Calculated	Larson-Skold Index Calculated	Bacti Positive/Negative Total Coliform Lab	Bacti Positive/Negative E. coli Lab
7/1/2026	16.1	7.61	3.31	0.71		1.30	101.00	0	79	10	10	73	10.1	227	-0.67	1.01	0.38	Negative	Negative
7/2/2026	16.2	7.61	3.30	0.71		1.30	102.00	0	78	11	9	72	9.8	224	-0.68	1.17	0.38	Negative	Negative
7/3/2026	15.8	7.62	3.30	0.66		1.30	102.00	0	77	11	9	72	10.2	224	-0.69	1.18	0.39	Negative	Negative
7/4/2026	15.4	7.62	3.30	0.67		1.33	102.00	0	77	10	9	72	9.9	222	-0.70	1.07	0.37	Negative	Negative
7/5/2026	14.9	7.62	3.30	0.69		1.31	100.00	0	80	11	9	76	10.1	222	-0.67	1.20	0.38	Negative	Negative
7/6/2026	15.2	7.63	3.29	0.68	0.67	1.28	101.00	0	78	12	10	70	10.4	229	-0.70	1.16	0.42	Negative	Negative
7/7/2026	17.0	7.66	3.30	0.67		1.27	109.00	0	82	14	13	77	9.4	247	-0.57	1.05	0.49	Negative	Negative
7/8/2026	18.5	7.66	3.30	0.68		1.29	108.00	0	84	14	11	78	9.0	253	-0.52	1.28	0.46	Negative	Negative
7/9/2026	19.0	7.62	3.30	0.71		1.32	110.00	0	84	15	11	80	9.1	252	-0.54	1.32	0.47	Negative	Negative
7/10/2026	19.0	7.61	3.30	0.71		1.29	108.00	0	83	13	11	78	9.0	248	-0.57	1.22	0.45	Negative	Negative
7/11/2026	19.1	7.60	3.31	0.71		1.29	108.00	0	82	13	11	78	9.1	244	-0.57	1.18	0.45	Negative	Negative
7/12/2026	19.4	7.62	3.32	0.68		1.27	108.00	0	83	13	12	77	8.9	249	-0.55	1.10	0.46	Negative	Negative
7/13/2026	20.4	7.63	3.32	0.71	0.71	1.26	113.00	0	87	17	12	86	8.1	257	-0.46	1.41	0.51	Negative	Negative
7/14/2026	21.1	7.61	3.34	0.69		1.29	118.00	0	87	15	13	80	9.0	262	-0.49	1.17	0.49	Negative	Negative
7/15/2026	20.6	7.59	3.34	0.68		1.29	114.00	0	84	15	12	81	10.6	256	-0.53	1.21	0.48	Negative	Negative
7/16/2026	19.3	7.59	3.33	0.71		1.32	106.00	0	82	14	11	78	10.4	246	-0.58	1.29	0.47	Negative	Negative
7/17/2026	18.0	7.59	3.33	0.69		1.34	106.00	0	78	14	9	78	9.8	235	-0.63	1.53	0.45	Negative	Negative
7/18/2026	17.0	7.61	3.32	0.71		1.30	102.00	0	78	10	12	69	12.6	231	-0.69	0.85	0.42	Negative	Negative
7/19/2026	17.1	7.61	3.32	0.71		1.32	102.00	0	78	10	12	69	12.6	231	-0.68	0.85	0.42	Negative	Negative
7/20/2026	17.6	7.62	3.32	0.71	0.73	1.31	111.00	0	82	10	10	69	8.6	229	-0.64	1.00	0.37	Negative	Negative
7/21/2026	18.8	7.61	3.32	0.69		1.30	104.00	0	82	10	10	80	9.3	235	-0.56	0.98	0.36	Negative	Negative
7/22/2026	19.2	7.63	3.33	0.65		1.29	107.00	0	76	10	11	74	8.6	234	-0.60	0.92	0.42	Negative	Negative
7/23/2026	19.3	7.63	3.33	0.65		1.30	102.00	0	78	12	10	76	9.9	233	-0.57	1.20	0.43	Negative	Negative
7/24/2026	19.5	7.63	3.31	0.62		1.30	102.00	0	77	12	9	76	9.2	232	-0.57	1.33	0.42	Negative	Negative
7/25/2026	19.7	7.63	3.31	0.60		1.30	102.00	0	79	12	9	78	9.1	231	-0.54	1.36	0.41	Negative	Negative
7/26/2026	19.8	7.62	3.32	0.61		1.31	100.00	0	77	12	9	76	9.1	229	-0.57	1.30	0.41	Negative	Negative
7/27/2026	19.9	7.61	3.32	0.58	0.63	1.37	100.00	0	77	11	10	72	9.0	226	-0.60	1.08	0.41	Negative	Negative
7/28/2026	19.8	7.62	3.32	0.55		1.30	100.00	0	76	11	10	72	10.2	224	-0.61	1.06	0.41	Negative	Negative
7/29/2026	19.5	7.62	3.32	0.56		1.29	98.00	0	76	10	9	72	9.5	224	-0.61	1.12	0.38	Negative	Negative
7/30/2026	19.6	7.62	3.32	0.53		1.28	100.00	0	76	10	10	71	9.0	225	-0.61	1.00	0.40	Negative	Negative
7/31/2026	20.2	7.63	3.32	0.48		1.30	106.00	0	76	10	10	64	9.0	227	-0.63	1.04	0.41	Negative	Negative
Avg	18.5	7.62	3.31	0.66	0.68	1.30	104.90	0	80	12	10	75	9.6	236	-0.60	1.15	0.43	Positive Count	
Min	14.9	7.59	3.29	0.48	0.63	1.26	98.00	0	76	10	9	64	8.1	222	-0.70	0.85	0.36	TC	E. coli
Max	21.1	7.66	3.34	0.71	0.73	1.37	118.00	0	87	17	13	86	12.6	262	-0.46	1.53	0.51	0	0

Plant Tap Disinfection Byproduct Monitoring - Results in ppb			
Date	Total Trihalomethanes - TTHM		
	Result	LRAA	OEL
7/14/26	59	39	45

Turbidity										
	Raw Water		Clarified Water	Membrane Feed Water	Combined Membrane Filtrate					Finished Water
	Avg	Max	Avg	Avg	Avg	Max	# Samples	# > 0.3	% Exceeded	Avg
	NTU									
Date	AIT-1000-1		AIT-5030-1	AIT-1035-3	AIT-4000-1					Calculated
7/1/2026	0.19	0.23	2.75	0.19	0.020	0.021	96	0	0.0	0.019
7/2/2026	0.20	0.29	3.60	0.19	0.020	0.021	96	0	0.0	0.018
7/3/2026	0.21	0.37	3.47	0.20	0.020	0.020	96	0	0.0	0.018
7/4/2026	0.18	0.20	1.40	0.18	0.020	0.020	96	0	0.0	0.018
7/5/2026	0.22	0.40	1.68	0.17	0.019	0.020	96	0	0.0	0.018
7/6/2026	0.34	0.91	3.92	0.26	0.020	0.022	96	0	0.0	0.018
7/7/2026	0.35	0.50	5.36	0.32	0.022	0.023	96	0	0.0	0.019
7/8/2026	0.32	0.58	5.08	0.31	0.023	0.024	96	0	0.0	0.020
7/9/2026	0.38	0.77	4.15	0.33	0.023	0.024	96	0	0.0	0.020
7/10/2026	0.24	0.30	3.75	0.31	0.023	0.024	96	0	0.0	0.020
7/11/2026	0.31	0.36	3.56	0.28	0.023	0.024	96	0	0.0	0.019
7/12/2026	0.30	0.34	10.10	0.30	0.023	0.024	96	0	0.0	0.019
7/13/2026	0.28	0.55	16.73	0.29	0.025	0.026	96	0	0.0	0.020
7/14/2026	0.38	0.45	9.85	0.32	0.026	0.027	96	0	0.0	0.021
7/15/2026	0.38	3.39	24.27	0.36	0.025	0.026	96	0	0.0	0.021
7/16/2026	0.27	0.59	19.99	0.30	0.024	0.025	96	0	0.0	0.020
7/17/2026	0.25	0.32	20.01	0.26	0.022	0.024	96	0	0.0	0.019
7/18/2026	0.30	0.72	4.84	0.26	0.021	0.022	96	0	0.0	0.019
7/19/2026	0.30	0.51	4.93	0.29	0.021	0.021	96	0	0.0	0.018
7/20/2026	0.23	0.57	4.98	0.25	0.021	0.021	96	0	0.0	0.018
7/21/2026	0.24	0.42	6.90	0.23	0.022	0.023	96	0	0.0	0.019
7/22/2026	0.32	0.79	8.18	0.26	0.022	0.023	96	0	0.0	0.018
7/23/2026	0.30	0.56	5.55	0.24	0.022	0.022	96	0	0.0	0.018
7/24/2026	0.34	0.52	10.92	0.30	0.022	0.022	96	0	0.0	0.018
7/25/2026	0.42	0.50	6.38	0.34	0.022	0.022	96	0	0.0	0.018
7/26/2026	0.24	0.39	4.84	0.31	0.022	0.022	96	0	0.0	0.018
7/27/2026	0.18	0.55	5.75	0.22	0.021	0.023	96	0	0.0	0.018
7/28/2026	0.18	0.29	4.43	0.17	0.021	0.022	96	0	0.0	0.018
7/29/2026	0.23	0.95	4.44	0.18	0.021	0.022	96	0	0.0	0.018
7/30/2026	0.19	0.27	6.86	0.19	0.021	0.021	96	0	0.0	0.018
7/31/2026	0.28	0.31	7.83	0.21	0.021	0.023	96	0	0.0	0.018
Avg	0.28	0.58	7.31	0.26	0.022	0.023	96	0	0.0	0.019
Min	0.18	0.20	1.40	0.17	0.019	0.020	96	0	0.0	0.018
Max	0.42	3.39	24.27	0.36	0.026	0.027	96	0	0.0	0.021

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

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		Max	Minimum		Max	Minimum		Max	Minimum		Max	Minimum		Max	Minimum		Max	Minimum		Max	Minimum		Max
Date	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU	Daily Value	Pass/Fail	NTU
7/1/2026	5.27	PASS	0.019	5.20	PASS	0.020	5.22	PASS	0.018	5.54	PASS	0.018	5.45	PASS	0.017	5.25	PASS	0.019	5.54	PASS	0.018	5.42	PASS	0.018
7/2/2026	5.28	PASS	0.018	5.21	PASS	0.020	5.25	PASS	0.018	5.60	PASS	0.018	5.41	PASS	0.017	5.29	PASS	0.018	5.59	PASS	0.018	5.43	PASS	0.018
7/3/2026	5.31	PASS	0.018	5.22	PASS	0.020	5.26	PASS	0.018	5.60	PASS	0.018	5.39	PASS	0.017	5.36	PASS	0.018	5.55	PASS	0.017	5.49	PASS	0.018
7/4/2026	5.31	PASS	0.018	5.24	PASS	0.019	5.27	PASS	0.017	5.58	PASS	0.017	5.41	PASS	0.017	5.36	PASS	0.018	5.55	PASS	0.017	5.45	PASS	0.017
7/5/2026	5.31	PASS	0.017	5.22	PASS	0.019	5.30	PASS	0.018	5.62	PASS	0.017	5.41	PASS	0.017	5.13	PASS	0.018	5.57	PASS	0.017	5.46	PASS	0.017
7/6/2026	5.29	PASS	0.019	5.20	PASS	0.021	5.25	PASS	0.019	5.59	PASS	0.019	5.40	PASS	0.018	5.12	PASS	0.020	5.55	PASS	0.019	5.46	PASS	0.019
7/7/2026	5.27	PASS	0.020	5.20	PASS	0.022	5.21	PASS	0.020	5.56	PASS	0.020	5.32	PASS	0.019	4.97	PASS	0.021	5.51	PASS	0.020	5.34	PASS	0.020
7/8/2026	5.25	PASS	0.020	5.20	PASS	0.022	5.21	PASS	0.020	5.52	PASS	0.020	5.32	PASS	0.019	4.98	PASS	0.021	5.47	PASS	0.020	5.33	PASS	0.020
7/9/2026	5.23	PASS	0.020	5.17	PASS	0.022	5.17	PASS	0.020	5.56	PASS	0.020	5.35	PASS	0.019	5.31	PASS	0.021	5.48	PASS	0.020	5.33	PASS	0.020
7/10/2026	5.26	PASS	0.020	5.17	PASS	0.022	5.16	PASS	0.019	5.55	PASS	0.019	5.36	PASS	0.019	5.11	PASS	0.020	5.46	PASS	0.019	5.34	PASS	0.019
7/11/2026	5.26	PASS	0.019	5.23	PASS	0.021	5.17	PASS	0.019	5.52	PASS	0.019	5.36	PASS	0.019	5.11	PASS	0.019	5.55	PASS	0.019	5.37	PASS	0.019
7/12/2026	5.22	PASS	0.020	5.16	PASS	0.022	5.14	PASS	0.020	5.51	PASS	0.020	5.35	PASS	0.019	5.20	PASS	0.020	5.51	PASS	0.020	5.41	PASS	0.020
7/13/2026	5.16	PASS	0.021	5.11	PASS	0.023	5.16	PASS	0.021	5.51	PASS	0.021	5.35	PASS	0.020	5.20	PASS	0.021	5.47	PASS	0.020	5.34	PASS	0.021
7/14/2026	5.16	PASS	0.021	5.12	PASS	0.023	5.13	PASS	0.021	5.50	PASS	0.020	5.29	PASS	0.021	5.27	PASS	0.022	5.41	PASS	0.021	5.35	PASS	0.021
7/15/2026	5.17	PASS	0.020	5.11	PASS	0.023	5.10	PASS	0.020	5.45	PASS	0.019	5.24	PASS	0.020	5.24	PASS	0.021	5.41	PASS	0.021	5.30	PASS	0.021
7/16/2026	5.20	PASS	0.020	5.13	PASS	0.022	5.11	PASS	0.020	5.48	PASS	0.019	5.25	PASS	0.019	5.25	PASS	0.020	5.41	PASS	0.020	5.31	PASS	0.020
7/17/2026	5.20	PASS	0.019	5.15	PASS	0.021	5.10	PASS	0.019	5.46	PASS	0.018	5.28	PASS	0.018	5.26	PASS	0.019	5.46	PASS	0.019	5.33	PASS	0.019
7/18/2026	5.23	PASS	0.018	5.16	PASS	0.020	5.15	PASS	0.019	5.56	PASS	0.018	5.34	PASS	0.018	5.15	PASS	0.019	5.54	PASS	0.018	5.34	PASS	0.018
7/19/2026	5.25	PASS	0.018	5.26	PASS	0.020	5.22	PASS	0.018	5.55	PASS	0.018	5.34	PASS	0.017	5.10	PASS	0.019	5.54	PASS	0.018	5.34	PASS	0.018
7/20/2026	5.25	PASS	0.018	5.23	PASS	0.020	5.18	PASS	0.018	5.54	PASS	0.018	5.36	PASS	0.017	5.23	PASS	0.018	5.43	PASS	0.018	5.38	PASS	0.018
7/21/2026	5.29	PASS	0.018	5.16	PASS	0.020	5.18	PASS	0.018	5.55	PASS	0.018	5.35	PASS	0.017	5.09	PASS	0.018	5.43	PASS	0.018	5.35	PASS	0.018
7/22/2026	5.30	PASS	0.018	5.15	PASS	0.020	5.20	PASS	0.018	5.63	PASS	0.018	5.35	PASS	0.019	5.10	PASS	0.018	5.51	PASS	0.018	5.34	PASS	0.018
7/23/2026	5.30	PASS	0.018	5.16	PASS	0.020	5.20	PASS	0.018	5.63	PASS	0.018	5.35	PASS	0.017	5.30	PASS	0.018	5.52	PASS	0.018	5.34	PASS	0.018
7/24/2026	5.30	PASS	0.018	5.20	PASS	0.020	5.26	PASS	0.018	5.63	PASS	0.018	5.41	PASS	0.017	5.35	PASS	0.019	5.53	PASS	0.018	5.41	PASS	0.018
7/25/2026	5.30	PASS	0.018	5.20	PASS	0.019	5.27	PASS	0.018	5.63	PASS	0.018	5.45	PASS	0.017	5.39	PASS	0.018	5.52	PASS	0.018	5.44	PASS	0.017
7/26/2026	5.30	PASS	0.018	5.21	PASS	0.019	5.27	PASS	0.017	5.65	PASS	0.018	5.42	PASS	0.017	5.34	PASS	0.018	5.53	PASS	0.018	5.43	PASS	0.017
7/27/2026	5.29	PASS	0.018	5.19	PASS	0.019	5.27	PASS	0.017	5.64	PASS	0.017	5.41	PASS	0.017	5.34	PASS	0.018	5.52	PASS	0.017	5.41	PASS	0.017
7/28/2026	5.33	PASS	0.017	5.20	PASS	0.019	5.27	PASS	0.017	5.67	PASS	0.017	5.41	PASS	0.016	5.28	PASS	0.018	5.54	PASS	0.017	5.41	PASS	0.017
7/29/2026	5.30	PASS	0.017	5.13	PASS	0.019	5.21	PASS	0.017	5.66	PASS	0.017	5.42	PASS	0.016	5.16	PASS	0.018	5.53	PASS	0.017	5.41	PASS	0.017
7/30/2026	5.29	PASS	0.017	5.11	PASS	0.019	5.24	PASS	0.017	5.63	PASS	0.017	5.43	PASS	0.017	5.37	PASS	0.018	5.55	PASS	0.017	5.43	PASS	0.017
7/31/2026	5.29	PASS	0.017	5.19	PASS	0.019	5.27	PASS	0.017	5.60	PASS	0.018	5.33	PASS	0.017	5.34	PASS	0.018	5.55	PASS	0.017	5.40	PASS	0.017
Avg	5.26		0.019	5.18		0.020	5.21		0.019	5.57		0.018	5.36		0.018	5.22		0.019	5.51		0.018	5.38		0.018
Min	5.16		0.017	5.11		0.019	5.10		0.017	5.45		0.017	5.24		0.016	4.97		0.018	5.41		0.017	5.30		0.017
Max	5.33		0.021	5.26		0.023	5.30		0.021	5.67		0.021	5.45		0.021	5.39		0.022	5.59		0.021	5.49		0.021

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												
	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydroflourosilicic 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					PO4		F^-			
	MG	mg/L					mg/L		mg/L			
Date	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	
7/1/2026	11.3	0.28	0.20	1.03	1.39	1.30	3.15	3.31	0.09	0.58	0.71	
7/2/2026	10.5	0.34	0.21	1.03	1.38	1.30	3.15	3.30	0.08	0.57	0.71	
7/3/2026	10.2	0.36	0.22	1.03	1.40	1.30	3.15	3.30	0.08	0.56	0.66	
7/4/2026	8.3	0.52	0.31	0.92	1.42	1.33	3.15	3.30	0.07	0.56	0.67	
7/5/2026	8.5	0.39	0.32	0.95	1.39	1.31	3.15	3.30	0.36	0.56	0.69	
7/6/2026	9.3	0.14	0.19	1.16	1.37	1.28	3.15	3.29	0.09	0.56	0.68	
7/7/2026	10.0	0.09	0.06	1.21	1.42	1.27	3.15	3.30	0.09	0.56	0.67	
7/8/2026	10.7	0.19	0.06	1.23	1.45	1.29	3.15	3.30	0.08	0.56	0.68	
7/9/2026	8.8	0.29	0.12	1.15	1.46	1.32	3.15	3.30	0.09	0.56	0.71	
7/10/2026	8.6	0.40	0.13	1.18	1.46	1.29	3.15	3.30	0.09	0.56	0.71	
7/11/2026	7.7	0.27	0.15	1.16	1.41	1.29	3.15	3.31	0.09	0.56	0.71	
7/12/2026	9.3	0.14	0.08	1.22	1.42	1.27	3.15	3.32	0.09	0.56	0.68	
7/13/2026	10.7	0.08	0.04	1.39	1.42	1.26	3.13	3.32	0.09	0.57	0.71	
7/14/2026	10.5	0.09	0.04	1.40	1.48	1.29	3.10	3.34	0.10	0.56	0.69	
7/15/2026	10.4	0.19	0.04	1.38	1.45	1.29	3.10	3.34	0.08	0.56	0.68	
7/16/2026	9.6	0.33	0.09	1.38	1.43	1.32	3.10	3.33	0.09	0.56	0.71	
7/17/2026	9.5	0.39	0.17	1.26	1.42	1.34	3.10	3.33	0.08	0.56	0.69	
7/18/2026	8.8	0.36	0.18	1.26	1.39	1.30	3.10	3.32	0.08	0.56	0.71	
7/19/2026	9.3	0.39	0.17	1.26	1.38	1.32	3.10	3.32	0.08	0.56	0.71	
7/20/2026	9.8	0.36	0.17	1.24	1.38	1.31	3.10	3.32	0.08	0.56	0.71	
7/21/2026	8.9	0.37	0.20	1.24	1.38	1.30	3.10	3.32	0.09	0.52	0.69	
7/22/2026	9.3	0.31	0.17	1.27	1.37	1.29	3.10	3.33	0.09	0.51	0.65	
7/23/2026	9.1	0.23	0.15	1.10	1.42	1.30	3.10	3.33	0.09	0.48	0.65	
7/24/2026	9.7	0.27	0.12	1.14	1.43	1.30	3.10	3.31	0.09	0.46	0.62	
7/25/2026	9.1	0.45	0.18	1.06	1.42	1.30	3.10	3.31	0.09	0.45	0.60	
7/26/2026	9.2	0.56	0.25	1.06	1.40	1.31	3.10	3.32	0.09	0.45	0.61	
7/27/2026	10.1	0.58	0.37	0.90	1.42	1.37	3.10	3.32	0.09	0.41	0.58	
7/28/2026	9.8	0.59	0.44	0.88	1.38	1.30	3.10	3.32	0.09	0.40	0.55	
7/29/2026	9.4	0.54	0.43	0.90	1.37	1.29	3.10	3.32	0.09	0.40	0.56	
7/30/2026	9.6	0.48	0.39	0.96	1.38	1.28	3.10	3.32	0.09	0.36	0.53	
7/31/2026	9.2	0.38	0.32	1.00	1.37	1.30	3.10	3.32	0.08	0.35	0.48	
Avg	9.5	0.33	0.19	1.14	1.41	1.30	3.12	3.31	0.10	0.52	0.66	
Min	7.7	0.08	0.04	0.88	1.37	1.26	3.10	3.29	0.07	0.35	0.48	
Max	11.3	0.59	0.44	1.40	1.48	1.37	3.15	3.34	0.36	0.58	0.71	

Note: Reduced Chlorine dose can be seen starting on the 22nd

Disinfection CT														
	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
Date	Entry	Calculated	AIT-1035-2	Calculated	LIT-4005-1	LIT-4005-2	Calculated	Calculated	Calculated	Calculated	Calculated	AIT-4040-1	Calculated	Calculated
7/1/2026	67.5	1,852	0.28	526	28.5	20.6	10.5	321	1.19	190	717	16.1	4.00	Y
7/2/2026	68.1	1,837	0.34	621	28.4	23.9	9.6	374	1.24	233	854	16.2	4.00	Y
7/3/2026	63.2	1,978	0.36	710	28.4	19.1	9.3	349	1.24	217	927	15.8	4.00	Y
7/4/2026	68.7	1,821	0.52	956	28.4	20.2	7.5	441	1.27	280	1236	15.4	4.00	Y
7/5/2026	69.9	1,790	0.39	698	28.4	21.2	7.9	430	1.26	271	969	14.9	6.00	Y
7/6/2026	69.1	1,810	0.14	255	28.4	20.3	8.6	387	1.19	230	485	15.2	4.00	Y
7/7/2026	59.6	2,100	0.09	197	28.4	21.6	9.0	379	1.25	238	435	17.0	4.00	Y
7/8/2026	62.3	2,009	0.19	378	28.2	20.4	10.0	334	1.19	198	576	18.5	4.00	Y
7/9/2026	63.3	1,975	0.29	567	28.2	23.1	8.1	433	1.25	271	838	19.0	4.00	Y
7/10/2026	63.6	1,968	0.40	789	28.4	22.0	7.7	446	1.25	278	1068	19.0	4.00	Y
7/11/2026	67.5	1,854	0.27	503	28.2	21.5	7.2	475	1.21	288	791	19.1	4.00	Y
7/12/2026	68.6	1,822	0.14	263	28.4	20.9	8.5	397	1.25	249	512	19.4	4.00	Y
7/13/2026	65.4	1,914	0.08	153	28.5	21.7	9.8	349	1.23	214	367	20.4	2.00	Y
7/14/2026	70.2	1,781	0.09	164	28.4	22.0	9.8	353	1.24	219	383	21.1	2.00	Y
7/15/2026	71.4	1,753	0.19	325	28.4	20.8	9.7	349	1.23	214	539	20.6	2.00	Y
7/16/2026	63.4	1,974	0.33	657	28.0	19.6	8.7	373	0.90	168	825	19.3	4.00	Y
7/17/2026	65.4	1,913	0.39	753	28.4	18.7	8.8	369	0.79	146	899	18.0	4.00	Y
7/18/2026	74.1	1,687	0.36	611	28.4	19.6	8.2	402	0.52	104	714	17.0	4.00	Y
7/19/2026	75.4	1,658	0.39	643	28.2	23.4	8.6	411	1.22	252	895	17.1	4.00	Y
7/20/2026	69.6	1,796	0.36	641	28.4	22.7	9.0	389	1.12	217	858	17.6	4.00	Y
7/21/2026	66.1	1,894	0.37	696	28.4	24.9	8.1	450	1.05	235	931	18.8	4.00	Y
7/22/2026	60.8	2,057	0.31	635	28.2	25.8	8.7	428	1.21	259	894	19.2	4.00	Y
7/23/2026	53.8	2,324	0.23	542	28.4	25.2	8.4	437	1.25	273	815	19.3	4.00	Y
7/24/2026	61.3	2,040	0.27	551	28.5	24.8	9.0	408	1.24	254	804	19.5	4.00	Y
7/25/2026	75.3	1,662	0.45	749	28.4	24.0	8.4	429	1.25	267	1016	19.7	4.00	Y
7/26/2026	76.4	1,636	0.56	921	28.3	24.6	8.5	426	1.24	264	1184	19.8	4.00	Y
7/27/2026	69.8	1,792	0.58	1040	28.5	24.6	9.3	392	1.30	255	1295	19.9	4.00	Y
7/28/2026	64.3	1,945	0.59	1142	28.3	25.0	9.0	407	1.23	250	1392	19.8	4.00	Y
7/29/2026	61.3	2,041	0.54	1097	28.4	23.4	8.6	411	1.25	256	1353	19.5	4.00	Y
7/30/2026	60.1	2,083	0.48	992	28.2	24.5	8.8	409	1.19	244	1236	19.6	4.00	Y
7/31/2026	67.4	1,856	0.38	707	28.2	23.8	8.5	418	1.27	266	973	20.2	2.00	Y
Avg	66.5	1,891	0.33	628	28.4	22.4	8.8	399	1.18	235	864	18.5	3.81	NA
Min	53.8	1,636	0.08	153	28.0	18.7	7.2	321	0.52	104	367	14.9	2.00	NA
Max	76.4	2,324	0.59	1142	28.5	25.8	10.5	475	1.30	288	1392	21.1	6.00	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
7/1/2026									0.62	0.28	0.56	0.95	0.90	0.69	0.43									
7/2/2026																								
7/3/2026																								
7/4/2026																								
7/5/2026																								
7/6/2026																								1.02
7/7/2026	0.32	0.82	0.42	0.61	1.15				0.75	0.39	0.53	0.82	0.46	0.84	0.69	0.68	0.73	0.90	0.75	0.70		0.11		
7/8/2026																								
7/9/2026						0.91	0.81		0.61	0.40	0.30	0.77	0.34	0.84	0.55									
7/10/2026																								
7/11/2026																								
7/12/2026																								
7/13/2026																								0.98
7/14/2026				0.35	0.89											0.66	0.68	0.90	0.63	0.48			0.28	
7/15/2026									0.72	0.24	0.34	0.59	0.27	0.87	0.40									
7/16/2026								1.15													0.81			
7/17/2026																								
7/18/2026																								
7/19/2026																								
7/20/2026																								1.18
7/21/2026		0.48	0.28	0.38	0.78				0.74	0.17	0.49	0.72	0.40	1.01	0.54									
7/22/2026																								
7/23/2026									0.68	0.19	0.43	0.62	0.26	0.95	0.52									
7/24/2026																								
7/25/2026																								
7/26/2026																								
7/27/2026									0.62	0.62	0.48	0.60	0.36	0.93	0.65									1.16
7/28/2026																								
7/29/2026																								
7/30/2026																								
7/31/2026																								
Average	0.32	0.62				0.96			0.57							0.71					0.81	0.20		1.09
Min	0.32	0.28				0.81			0.17							0.48					0.81	0.11		0.98
Max	0.32	1.15				1.15			1.01							0.90					0.81	0.28		1.18

MONITORING STATION ADDRESSES

1. Sample station at corner of 5758 M-25 & F
3. Bangor Fire Station, 3921 Wheeler
4. BCDWS Admin. Bldg. 3933 Patterson Rd.
5. 7-11, 3543 S. Old Kawkawlin Rd.
6. Admiral Petroleum, 314 S Euclid Ave.
7. Sequin Lumber, 3881 Euclid Ave
9. Top Gun Liquor, 2981 Midland Rd
10. Little Caesars, 3475 E North Union Rd
11. Number 1 Fire Station, 1401 Center Ave
12. Number 2 Fire Station, 1000 Fremont Ave
13. Jack's Fruit Market, 1000 Salzburg Ave
14. Number 4 Fire Station, 212 S. Dean St
15. Number 5 Fire Station, 1209 Smith St
16. Bay City Hall, 301 Washington Ave
17. Skipper Buds Marina, 1809 S Water St
18. Bay Valley Animal Hospital 6015 WS Saginaw Rd
19. Dore's M-84 Party Store, 6183 WS Saginaw Rd
20. Pump Station #13, 6000 WS Saginaw Rd
23. Rail Trail Pump Station, 366 N. Tuscola Rd.
24. Little Learners Daycare, 1694 Cass Ave.
26. Wieland Contracting, 2443 S Mackinaw Rd
29. Sample Station, 2515 S. 11 Mile Rd
30. Sample Station, 340 W. Beaver 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
	Fraser Twp.		Hampton Twp.				Kawkawlin Twp.			Kawkawlin Met.		Linwood, LMWD		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
Date	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
7/1/2026																											
7/2/2026																											
7/3/2026																											
7/4/2026																											
7/5/2026																											
7/6/2026																											
7/7/2026														0.53									0.60	0.57	0.80	0.67	0.40
7/8/2026																											
7/9/2026		0.77	0.75	0.58	0.38	0.39	0.97	0.80		0.88		0.62				0.97	0.63	0.69	0.64		0.37						
7/10/2026																											
7/11/2026																											
7/12/2026																											
7/13/2026																											
7/14/2026														0.30										0.65	0.50	0.38	
7/15/2026																											
7/16/2026	0.32			0.47	0.40	0.21			0.85	0.50						1.06	0.51	0.64	0.48			0.54					
7/17/2026																											
7/18/2026																											
7/19/2026																											
7/20/2026																											
7/21/2026																											
7/22/2026																											
7/23/2026				0.54	0.40	0.41																					
7/24/2026																											
7/25/2026																											
7/26/2026																											
7/27/2026																											
7/28/2026																											
7/29/2026																											
7/30/2026																											
7/31/2026																											
Average	0.55		0.45				0.87			0.69		0.62		0.42		0.75			0.56		0.46		0.60	0.60			0.40
Min	0.32		0.21				0.80			0.50		0.62		0.30		0.51			0.48		0.37		0.60	0.38			0.40
Max	0.77		0.75				0.97			0.88		0.62		0.53		1.06			0.64		0.54		0.60	0.80			0.40

MONITORING STATION ADDRESSES

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

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

Distribution System Bacteriological

Water Supplier Bacteriological Analysis Report

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

July, 2026

Name of Water Supply:
Bay Area Water System - WSSN 0465

DISTRIBUTION SYSTEM SAMPLES

COUNTY	COMMUNITY	WSSN	CHLORINE MONITORING			BACTERILOGICAL MONITORING					
			AVERAGE FREE CL_2 RESIDUAL	SAMPLES WITH NO DECTECTABLE* FREE CL_2 RESIDUAL	PERCENT OF SAMPLES WITH NO DECTECTABLE* 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	0.32	0	0	1	1	0			
BAY	Bangor Township	0390	0.62	0	0	10	10	0			
BAY	Bangor-Monitor Dist.	0400	0.96	0	0	3	3	0			
BAY	Bay City	0470	0.57	0	0	30	49	0			
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	0	0	9	10	0			
BAY	Beaver Road Area	0517	0.81	0	0	1	1	0			
BAY	Beaver Township	0518	0.20	0	0	2	2	0			
BAY	Essexville	2180	1.09	0	0	4	4	0			
BAY	Fraser Township	2465	0.55	0	0	2	2	0			
BAY	Hampton Township	2960	0.45	0	0	10	10	0			
BAY	Kawkawlin Township	3565	0.87	0	0	3	3	0			
BAY	Kawkawlin Metro Dist.	3570	0.69	0	0	2	2	0			
BAY	Linwood Metro Water District	3910	0.62	0	0	1	1	0			
BAY	Merritt Township	4280	0.42	0	0	2	2	0			
BAY	Monitor Township	4440	0.75	0	0	6	6	0			
BAY	City of Pinconning	5330	0.56	0	0	2	2	0			
BAY	Pinconning Township	5335	0.46	0	0	2	2	0			
BAY	Portsmouth Township	5540	0.60	0	0	1	1	0			
BAY	Williams Township	7125	0.60	0	0	6	6	0			
Tuscola	Wisner	7134	0.40	0	0	1	1	0			

Total Distribution - Free Chlorine Samples

Required Number of Routine Samples:	98	
Total Number of Routine Samples Gathered:	118	
Free Chlorine Analysis:		
Minimum Free Chlorine Residual:	0.11	mg/L
Average Free Chlorine Residual:	0.61	mg/L
Median Free Chlorine Residual:	0.62	mg/L
Maximum Free Chlorine Residual:	1.18	mg/L
Range of Free Chlorine Residual:	1.07	mg/L
Water Plant's Free Chlorine Residual at POE to Distribution:		
Minimum Free Chlorine Residual:	1.26	mg/L
Average Free Chlorine Residual:	1.30	mg/L
Maximum Free Chlorine Residual:	1.37	mg/L

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.

Repeat Bacteriological Sampling Details

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