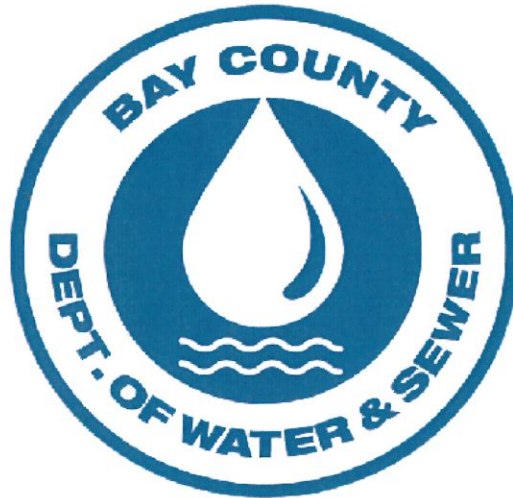


Bay Area WTP

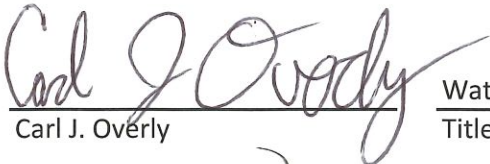
Monthly Operations Report



April, 2025

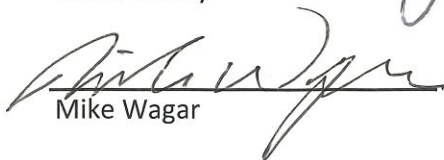
Water Systems Serial Number:

0465


Carl J. Overly

Water Plant Superintendent
Title

F-1, S-3, D-4
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

April, 2025
Month, Year

F-1
Water Plant Classification

Bay
County

Carl J. Overly
Operator-in-charge

F-1, S-3, D-4
Certification of Operator-in-charge

20001
Operator Identification Number for Operator-in-charge

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>7.6</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>18.11</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>28.34</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>4,940</u>	Gallons	Estimated Supply:	<u>87.9</u>	days
Caustic Soda on hand:	<u>1,139</u>	Gallons	Estimated Supply:	<u>78.0</u>	days
Corrosion Inhibitor on hand:	<u>451</u>	Gallons	Estimated Supply:	<u>21.2</u>	days
Hydrofluosilicic Acid on hand:	<u>990</u>	Gallons	Estimated Supply:	<u>66.8</u>	days
Aluminum Chlorohydrate on hand:	<u>591</u>	Gallons	Estimated Supply:	<u>158.2</u>	days
Sulfuric Acid on hand:	<u>361</u>	Gallons	Estimated Supply:	<u>180.4</u>	days
Sodium Bisulfite on hand:	<u>907</u>	Gallons	Estimated Supply:	<u>312.7</u>	days
Citric Acid on hand:	<u>1,408</u>	Gallons	Estimated Supply:	<u>112.6</u>	days
Cost of All Chemicals per Million Gallons:	<u>100.72</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>938.99</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>10.06</u>	Mcf

Remarks

Number of periods of filter confluence turbidity samples > 0.3 NTU	<u>0</u>
Percent of membrane period confluence samples > 0.3 NTU:	<u>0.00%</u>
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.	<u>No</u>
Did POE disinfectant residual fall below 0.2 ppm during the month? If yes, indicate date(s) and duration on a separate sheet.	<u>No</u>
Was minimum C*T credit achieved for the entire month? If no, indicate on a separate sheet the date(s) not achieved.	<u>Yes</u>
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.	<u>Yes</u>

Notes

Tap Chlorine CL17 ran dry of reagents on the 21st. The event caused a low reading of 0.1 mg/L and lasted roughly 30 mins. Comparing other CL17 in the process and results of a grab sample, tap chlorine didn't fall below 0.926 for the day. The value on the 21st on the CT page has been manually adjusted to show the corrected value.

Skid 4 recorded a high LRV on the 1st. Skid 4 was down formaintenance and was placed back in service. Once in service the Skid did an AHT and the results were extremely low due to a valve not opening. The 6.16 initially recorded was inaccurate and manual calculations put the LRV reading close to 4.12.

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
4/1/2025	0.00	6.58	6.58	0.16	0.08	6.47	3.05	2.71	5.76
4/2/2025	0.00	6.17	6.17	0.16	0.08	6.44	3.04	2.66	5.70
4/3/2025	0.00	6.35	6.35	0.17	0.08	6.32	3.08	2.71	5.78
4/4/2025	0.00	6.68	6.68	0.20	0.08	6.59	3.13	2.83	5.96
4/5/2025	0.00	6.67	6.67	0.18	0.08	6.48	3.10	2.74	5.84
4/6/2025	0.00	6.60	6.60	0.19	0.08	6.93	3.22	2.90	6.11
4/7/2025	0.00	6.36	6.36	0.18	0.08	6.48	3.14	2.82	5.96
4/8/2025	0.00	6.41	6.41	0.20	0.08	6.75	3.19	2.87	6.05
4/9/2025	0.00	6.51	6.51	0.16	0.08	6.41	3.10	2.74	5.84
4/10/2025	0.00	6.78	6.78	0.16	0.09	6.61	3.07	2.73	5.81
4/11/2025	0.00	6.91	6.91	0.20	0.08	6.92	3.22	2.90	6.12
4/12/2025	0.00	7.20	7.20	0.20	0.08	6.92	3.22	2.90	6.12
4/13/2025	0.00	6.72	6.72	0.18	0.08	6.44	3.07	2.71	5.78
4/14/2025	0.00	6.08	6.08	0.20	0.08	6.70	3.18	2.78	5.97
4/15/2025	0.00	6.45	6.45	0.17	0.09	6.56	3.09	2.76	5.85
4/16/2025	0.00	6.47	6.47	0.17	0.08	6.62	3.12	2.80	5.92
4/17/2025	0.00	6.47	6.47	0.20	0.08	6.56	3.16	2.75	5.91
4/18/2025	0.00	6.50	6.50	0.17	0.08	6.29	3.05	2.64	5.69
4/19/2025	0.00	6.75	6.75	0.15	0.08	6.75	3.11	2.81	5.92
4/20/2025	0.00	6.59	6.59	0.18	0.08	6.34	3.03	2.69	5.72
4/21/2025	0.00	6.45	6.45	0.21	0.06	6.56	3.10	2.78	5.88
4/22/2025	0.00	6.42	6.42	0.16	0.08	6.84	3.24	2.90	6.15
4/23/2025	0.00	6.92	6.92	0.21	0.08	6.36	3.08	2.69	5.77
4/24/2025	0.00	6.80	6.80	0.17	0.08	6.58	3.16	2.79	5.96
4/25/2025	0.00	6.83	6.83	0.20	0.08	7.05	3.36	2.91	6.27
4/26/2025	0.00	7.06	7.06	0.18	0.08	6.54	3.20	2.75	5.95
4/27/2025	0.00	6.64	6.64	0.19	0.08	7.01	3.44	2.94	6.38
4/28/2025	0.00	6.79	6.79	0.19	0.08	7.19	3.47	2.99	6.46
4/29/2025	0.00	7.63	7.63	0.24	0.08	7.64	3.81	3.07	6.89
4/30/2025	0.00	8.03	8.03	0.21	0.08	7.62	3.66	3.09	6.74
Total	0.00	200.81	200.81	5.53	2.35	200.98	95.88	84.38	180.26
Avg	0.00	6.69	6.69	0.18	0.08	6.70	3.20	2.81	6.01
Min	0.00	6.08	6.08	0.15	0.06	6.29	3.03	2.64	5.69
Max	0.00	8.03	8.03	0.24	0.09	7.64	3.81	3.09	6.89

Process Efficiency: $\frac{(\text{Sludge} + \text{Sanitary})}{\text{Production}}$
 98.57%

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	
4/1/2025	3.0	8.02	0.80	1.18	0.08	0.36	Negative	Negative
4/2/2025	3.3	8.04	0.66	0.85	0.07	0.31	Negative	Negative
4/3/2025	3.8	8.02	0.69	2.11	0.09	0.38	Negative	Negative
4/4/2025	3.7	8.03	1.53	2.64	0.09	0.26	Negative	Negative
4/5/2025	3.8	8.04	1.20	1.63	0.09	0.36	Negative	Negative
4/6/2025	3.5	8.06	1.01	1.74	0.09	0.24	Negative	Negative
4/7/2025	3.5	8.01	2.13	3.22	0.09	0.15	Negative	Negative
4/8/2025	3.6	8.02	1.52	2.44	0.09	0.21	Negative	Negative
4/9/2025	3.6	8.04	1.28	1.77	0.09	0.22	Negative	Negative
4/10/2025	3.9	8.04	0.97	1.82	0.10	0.35	Negative	Negative
4/11/2025	4.0	8.01	0.81	0.99	0.10	0.47	Negative	Negative
4/12/2025	3.7	7.98	1.01	1.65	0.09	0.49	Negative	Negative
4/13/2025	4.0	8.03	0.76	1.51	0.10	0.54	Negative	Negative
4/14/2025	5.1	8.07	0.64	0.84	0.09	0.24	Negative	Negative
4/15/2025	5.2	8.07	0.59	1.01	0.09	0.22	Negative	Negative
4/16/2025	4.6	8.02	0.66	0.81	0.09	0.40	Negative	Negative
4/17/2025	4.9	8.00	0.53	0.61	0.09	0.55	Negative	Negative
4/18/2025	5.4	7.99	0.50	0.71	0.08	0.56	Negative	Negative
4/19/2025	5.6	8.01	0.65	0.98	0.08	0.44	Negative	Negative
4/20/2025	5.8	8.01	0.62	0.89	0.09	0.42	Negative	Negative
4/21/2025	5.9	8.01	0.50	0.61	0.09	0.45	Negative	Negative
4/22/2025	6.1	8.01	0.51	0.61	0.09	0.39	Negative	Negative
4/23/2025	6.4	8.02	0.57	0.78	0.09	0.33	Negative	Negative
4/24/2025	6.4	8.00	0.36	0.51	0.10	0.51	Negative	Negative
4/25/2025	6.5	8.01	0.35	0.40	0.09	0.42	Negative	Negative
4/26/2025	6.8	8.00	0.41	0.78	0.09	0.49	Negative	Negative
4/27/2025	7.4	8.05	0.65	0.92	0.09	0.21	Negative	Negative
4/28/2025	8.5	7.97	0.55	0.69	0.09	0.30	Negative	Negative
4/29/2025	9.1	7.96	0.49	1.14	0.09	0.40	Negative	Negative
4/30/2025	8.6	7.96	0.44	0.58	0.09	0.57	Negative	Negative
Avg	5.2	8.02	0.78	1.21	0.09	0.37	NA	NA
Min	3.0	7.96	0.35	0.40	0.07	0.15	NA	NA
Max	9.1	8.07	2.13	3.22	0.10	0.57	NA	NA

F⁻ Ratio, Raw/Tap: 12.7

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	Bacti	
	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	uS/cm	Total Coliform	E. coli			
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab	Lab		Lab	Lab	Lab	Lab	Lab	Calculated			Lab	
4/1/2025	3.4	7.61	3.32	0.73		1.03	98.00	0	74	10	12	76	13.8	229	-1.00	0.80	0.43	Negative	Negative
4/2/2025	3.5	7.61	3.34	0.71		1.02	100.00	0	76	10	12	74	9.1	224	-1.00	0.85	0.43	Negative	Negative
4/3/2025	3.7	7.57	3.32	0.68		0.99	100.00	0	75	10	11	78	13.6	233	-1.02	0.91	0.42	Negative	Negative
4/4/2025	3.8	7.61	3.27	0.68		1.00	104.00	0	80	11	13	80	12.9	243	-0.95	0.82	0.44	Negative	Negative
4/5/2025	3.9	7.59	3.26	0.67		0.99	106.00	0	85	12	13	82	13.2	260	-0.93	0.92	0.44	Negative	Negative
4/6/2025	3.9	7.66	3.25	0.68		1.01	108.00	0	85	12	10	84	12.9	257	-0.85	1.17	0.39	Negative	Negative
4/7/2025	3.9	7.69	3.25	0.69	0.69	0.98	114.00	0	86	13	12	82	12.3	260	-0.83	1.04	0.43	Negative	Negative
4/8/2025	4.0	7.69	3.27	0.70		0.98	114.00	0	84	12	11	80	13.9	266	-0.84	1.12	0.42	Negative	Negative
4/9/2025	4.1	7.68	3.34	0.69		0.99	108.00	0	82	11	13	78	13.6	255	-0.88	0.86	0.44	Negative	Negative
4/10/2025	4.2	7.66	3.36	0.73		1.01	106.00	0	82	11	11	78	13.7	253	-0.89	1.04	0.41	Negative	Negative
4/11/2025	4.2	7.65	3.36	0.75		1.03	106.00	0	84	11	11	80	13.2	250	-0.88	1.01	0.40	Negative	Negative
4/12/2025	4.1	7.66	3.37	0.73		1.02	106.00	0	86	11	11	74	13.4	243	-0.89	1.01	0.39	Negative	Negative
4/13/2025	4.2	7.63	3.37	0.75		1.02	104.00	0	79	12	11	84	13.8	249	-0.90	1.05	0.43	Negative	Negative
4/14/2025	5.0	7.62	3.37	0.72	0.70	0.98	110.00	0	82	11	12	82	13.5	246	-0.88	0.95	0.43	Negative	Negative
4/15/2025	5.3	7.72	3.37	0.73		1.00	100.00	0	79	12	14	84	13.9	245	-0.78	0.82	0.48	Negative	Negative
4/16/2025	5.1	7.74	3.37	0.69		1.01	108.00	0	82	11	13	78	13.6	255	-0.78	0.86	0.44	Negative	Negative
4/17/2025	5.2	7.64	3.37	0.71		1.02	108.00	0	82	12	11	82	13.4	250	-0.86	1.13	0.43	Negative	Negative
4/18/2025	5.4	7.57	3.37	0.71		1.03	104.00	0	82	13	12	84	11.8	242	-0.91	1.06	0.46	Negative	Negative
4/19/2025	5.5	7.54	3.37	0.72		1.01	106.00	0	82	11	11	76	13.7	243	-0.98	0.96	0.40	Negative	Negative
4/20/2025	5.6	7.53	3.37	0.72		0.99	106.00	0	82	11	11	76	13.7	243	-0.99	0.96	0.40	Negative	Negative
4/21/2025	5.8	7.60	3.36	0.70	0.72	0.98	104.00	0	87	13	43	80	9.0	239	-0.87	0.30	0.89	Negative	Negative
4/22/2025	5.9	7.66	3.37	0.70		1.02	110.00	0	84	11	11	80	12.9	246	-0.82	1.02	0.40	Negative	Negative
4/23/2025	6.3	7.60	3.38	0.69		0.99	104.00	0	83	11	12	78	12.5	252	-0.89	0.90	0.41	Negative	Negative
4/24/2025	6.5	7.55	3.37	0.69		1.00	106.00	0	79	12	12	80	12.9	247	-0.94	0.96	0.45	Negative	Negative
4/25/2025	6.5	7.56	3.37	0.68		1.01	102.00	0	77	11	10	74	12.8	243	-0.98	1.10	0.41	Negative	Negative
4/26/2025	6.5	7.57	3.38	0.65		1.00	104.00	0	77	11	11	74	12.8	240	-0.96	0.95	0.42	Negative	Negative
4/27/2025	6.8	7.51	3.37	0.70		0.98	102.00	0	78	10	10	78	12.8	238	-0.99	1.03	0.39	Negative	Negative
4/28/2025	7.8	7.54	3.37	0.69	0.68	0.98	102.00	0	76	11	12	80	12.3	240	-0.93	0.92	0.45	Negative	Negative
4/29/2025	8.1	7.51	3.38	0.69		1.02	102.00	0	79	11	10	80	12.4	239	-0.94	1.10	0.40	Negative	Negative
4/30/2025	7.8	7.60	3.38	0.68		1.02	100.00	0	80	10	17	76	12.7	236	-0.88	0.61	0.49	Negative	Negative
Avg	5.2	7.61	3.35	0.70	0.70	1.00	105.07	0	81	11	13	79	12.9	245	-0.91	0.94	0.44	NA	NA
Min	3.4	7.51	3.25	0.65	0.68	0.98	98.00	0	74	10	10	74	9.0	224	-1.02	0.30	0.39	NA	NA
Max	8.1	7.74	3.38	0.75	0.72	1.03	114.00	0	87	13	43	84	13.9	266	-0.78	1.17	0.89	NA	NA

Note: The sulfate reading on 4/21 was notably higher than average for our Finished Water. Because the reading fell within acceptable limits, the operator at the time didn't rerun the test to confirm the result. Our historical range for Sulfate is 9 to 14 mg/L. This 43 mg/L is likely a sampling error that was not caught.

Plant Tap Disinfection Byproduct Monitoring - Results in ppb			
Date	Total Trihalomethanes - TTHM		
	Result	LRAA	OEL
4/7/25	22	15	17

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
4/1/2025	0.80	1.18	0.47	0.71	0.022	0.023	96	0	0.0	0.023
4/2/2025	0.66	0.85	0.78	0.57	0.022	0.024	96	0	0.0	0.023
4/3/2025	0.69	2.11	0.80	0.54	0.023	0.023	96	0	0.0	0.023
4/4/2025	1.53	2.64	1.11	0.78	0.023	0.024	96	0	0.0	0.023
4/5/2025	1.20	1.63	2.10	0.91	0.024	0.027	96	0	0.0	0.024
4/6/2025	1.01	1.74	1.24	0.98	0.024	0.039	96	0	0.0	0.025
4/7/2025	2.13	3.22	1.50	1.15	0.026	0.033	96	0	0.0	0.025
4/8/2025	1.52	2.44	1.24	1.53	0.027	0.029	96	0	0.0	0.027
4/9/2025	1.28	1.77	0.82	1.40	0.027	0.039	96	0	0.0	0.027
4/10/2025	0.97	1.82	0.64	1.25	0.026	0.026	96	0	0.0	0.026
4/11/2025	0.81	0.99	0.77	0.95	0.024	0.026	96	0	0.0	0.025
4/12/2025	1.01	1.65	0.55	0.91	0.025	0.026	96	0	0.0	0.025
4/13/2025	0.76	1.51	0.57	0.87	0.024	0.026	96	0	0.0	0.025
4/14/2025	0.64	0.84	0.49	0.73	0.025	0.094	96	0	0.0	0.024
4/15/2025	0.59	1.01	0.56	0.61	0.023	0.025	96	0	0.0	0.024
4/16/2025	0.66	0.81	0.44	0.60	0.024	0.025	96	0	0.0	0.024
4/17/2025	0.53	0.61	0.62	0.54	0.023	0.025	96	0	0.0	0.024
4/18/2025	0.50	0.71	0.44	0.48	0.023	0.024	96	0	0.0	0.023
4/19/2025	0.65	0.98	0.38	0.49	0.023	0.024	96	0	0.0	0.023
4/20/2025	0.62	0.89	0.87	0.54	0.023	0.036	96	0	0.0	0.023
4/21/2025	0.50	0.61	1.17	0.51	0.023	0.030	96	0	0.0	0.024
4/22/2025	0.51	0.61	0.69	0.46	0.023	0.044	96	0	0.0	0.023
4/23/2025	0.57	0.78	0.96	0.48	0.024	0.032	96	0	0.0	0.024
4/24/2025	0.36	0.51	0.70	0.42	0.023	0.031	96	0	0.0	0.024
4/25/2025	0.35	0.40	0.80	0.34	0.023	0.023	96	0	0.0	0.023
4/26/2025	0.41	0.78	0.96	0.32	0.022	0.026	96	0	0.0	0.023
4/27/2025	0.65	0.92	0.90	0.42	0.023	0.031	96	0	0.0	0.023
4/28/2025	0.55	0.69	0.83	0.49	0.025	0.028	96	0	0.0	0.024
4/29/2025	0.49	1.14	1.02	0.48	0.025	0.027	96	0	0.0	0.026
4/30/2025	0.44	0.58	0.99	0.46	0.025	0.033	96	0	0.0	0.026
Avg	0.78	1.21	0.85	0.70	0.024	0.031	96	0	0.0	0.024
Min	0.35	0.40	0.38	0.32	0.022	0.023	96	0	0.0	0.023
Max	2.13	3.22	2.10	1.53	0.027	0.094	96	0	0.0	0.027

Note: % Exceeded are 4 hr compliance periods where the average of samples are greater than 0.3 NTU
While well below compliance concerns, the Max CFE turbidity on 4/14 is higher than we normally see.
We have started digging into this random high event.

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	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max	Minimum	Pass/Fail	Max
	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU	Daily Value		NTU
4/1/2025	5.55	PASS	0.025	5.03	PASS	0.025	5.51	PASS	0.024	4.12	PASS	0.024	5.51	PASS	0.025	5.03	PASS	0.024	4.25	PASS	0.024	5.35	PASS	0.023
4/2/2025	5.55	PASS	0.025	5.02	PASS	0.026	5.49	PASS	0.024	4.03	PASS	0.024	5.50	PASS	0.031	5.01	PASS	0.024	4.24	PASS	0.024	5.41	PASS	0.024
4/3/2025	5.56	PASS	0.025	5.04	PASS	0.026	5.43	PASS	0.025	4.03	PASS	0.025	5.41	PASS	0.024	5.41	PASS	0.024	4.25	PASS	0.024	5.40	PASS	0.024
4/4/2025	5.54	PASS	0.027	5.03	PASS	0.027	5.40	PASS	0.026	3.97	PASS	0.026	5.41	PASS	0.025	5.43	PASS	0.025	4.15	PASS	0.026	5.36	PASS	0.025
4/5/2025	5.53	PASS	0.028	5.02	PASS	0.028	5.40	PASS	0.027	3.98	PASS	0.027	5.45	PASS	0.031	5.43	PASS	0.026	4.15	PASS	0.026	5.39	PASS	0.026
4/6/2025	5.52	PASS	0.027	5.03	PASS	0.028	5.50	PASS	0.027	3.97	PASS	0.026	5.43	PASS	0.026	5.46	PASS	0.025	4.14	PASS	0.026	5.42	PASS	0.026
4/7/2025	5.53	PASS	0.030	5.07	PASS	0.031	5.49	PASS	0.029	3.94	PASS	0.029	5.43	PASS	0.028	5.26	PASS	0.028	4.13	PASS	0.029	5.39	PASS	0.029
4/8/2025	5.52	PASS	0.031	5.02	PASS	0.031	5.49	PASS	0.030	3.93	PASS	0.030	5.45	PASS	0.043	5.29	PASS	0.030	4.16	PASS	0.029	5.44	PASS	0.029
4/9/2025	5.55	PASS	0.030	5.07	PASS	0.030	5.49	PASS	0.029	3.93	PASS	0.029	5.36	PASS	0.029	5.30	PASS	0.028	4.16	PASS	0.029	5.40	PASS	0.029
4/10/2025	5.60	PASS	0.029	5.02	PASS	0.029	5.48	PASS	0.029	3.93	PASS	0.028	5.41	PASS	0.028	5.44	PASS	0.027	4.17	PASS	0.028	5.39	PASS	0.028
4/11/2025	5.58	PASS	0.028	5.02	PASS	0.028	5.46	PASS	0.027	3.91	PASS	0.027	5.41	PASS	0.026	5.44	PASS	0.026	4.16	PASS	0.026	5.39	PASS	0.026
4/12/2025	5.58	PASS	0.028	5.04	PASS	0.029	5.48	PASS	0.028	3.91	PASS	0.028	5.43	PASS	0.027	5.49	PASS	0.027	4.20	PASS	0.027	5.37	PASS	0.026
4/13/2025	5.58	PASS	0.028	5.00	PASS	0.029	5.48	PASS	0.027	3.97	PASS	0.027	5.43	PASS	0.028	5.45	PASS	0.026	4.22	PASS	0.027	5.37	PASS	0.026
4/14/2025	5.55	PASS	0.027	5.08	PASS	0.027	5.46	PASS	0.026	3.97	PASS	0.026	5.46	PASS	0.025	5.46	PASS	0.025	4.17	PASS	0.025	5.32	PASS	0.025
4/15/2025	5.55	PASS	0.026	5.08	PASS	0.027	5.46	PASS	0.026	4.01	PASS	0.025	5.46	PASS	0.025	5.45	PASS	0.025	4.17	PASS	0.025	5.57	PASS	0.025
4/16/2025	5.61	PASS	0.027	5.10	PASS	0.027	5.50	PASS	0.026	4.00	PASS	0.026	5.41	PASS	0.026	5.46	PASS	0.025	4.18	PASS	0.025	5.50	PASS	0.025
4/17/2025	5.55	PASS	0.026	5.02	PASS	0.027	5.48	PASS	0.025	3.96	PASS	0.026	5.41	PASS	0.026	5.45	PASS	0.025	4.20	PASS	0.025	5.47	PASS	0.025
4/18/2025	5.55	PASS	0.026	5.02	PASS	0.026	5.54	PASS	0.025	3.99	PASS	0.024	5.49	PASS	0.024	5.29	PASS	0.024	4.22	PASS	0.024	5.47	PASS	0.024
4/19/2025	5.59	PASS	0.026	5.09	PASS	0.026	5.50	PASS	0.025	3.96	PASS	0.025	5.48	PASS	0.024	5.29	PASS	0.025	4.25	PASS	0.025	5.46	PASS	0.024
4/20/2025	5.59	PASS	0.026	5.01	PASS	0.026	5.50	PASS	0.025	3.95	PASS	0.025	5.42	PASS	0.027	4.95	PASS	0.025	4.23	PASS	0.025	5.40	PASS	0.025
4/21/2025	5.57	PASS	0.026	5.01	PASS	0.027	5.58	PASS	0.025	3.94	PASS	0.025	5.44	PASS	0.025	4.95	PASS	0.025	4.23	PASS	0.025	5.39	PASS	0.024
4/22/2025	5.56	PASS	0.026	5.07	PASS	0.026	5.57	PASS	0.025	3.95	PASS	0.026	5.44	PASS	0.024	5.02	PASS	0.025	4.18	PASS	0.025	5.45	PASS	0.024
4/23/2025	5.63	PASS	0.026	5.07	PASS	0.027	5.61	PASS	0.026	3.96	PASS	0.026	5.44	PASS	0.025	5.02	PASS	0.026	4.17	PASS	0.025	5.45	PASS	0.025
4/24/2025	5.63	PASS	0.026	5.06	PASS	0.026	5.59	PASS	0.025	3.96	PASS	0.025	5.45	PASS	0.025	5.46	PASS	0.025	4.23	PASS	0.025	5.45	PASS	0.025
4/25/2025	5.62	PASS	0.026	5.07	PASS	0.027	5.57	PASS	0.026	3.97	PASS	0.026	5.50	PASS	0.026	5.46	PASS	0.025	4.19	PASS	0.025	5.46	PASS	0.026
4/26/2025	5.65	PASS	0.025	5.08	PASS	0.027	5.57	PASS	0.026	3.97	PASS	0.026	5.46	PASS	0.025	5.38	PASS	0.025	4.29	PASS	0.025	5.47	PASS	0.025
4/27/2025	5.63	PASS	0.026	5.08	PASS	0.027	5.53	PASS	0.026	3.97	PASS	0.027	5.46	PASS	0.025	5.38	PASS	0.026	4.28	PASS	0.025	5.47	PASS	0.026
4/28/2025	5.60	PASS	0.028	5.07	PASS	0.029	5.57	PASS	0.028	3.96	PASS	0.028	5.52	PASS	0.028	5.49	PASS	0.028	4.28	PASS	0.027	5.47	PASS	0.028
4/29/2025	5.61	PASS	0.028	5.09	PASS	0.029	5.54	PASS	0.028	3.91	PASS	0.028	5.61	PASS	0.028	5.06	PASS	0.029	4.32	PASS	0.028	5.44	PASS	0.028
4/30/2025	5.66	PASS	0.028	5.10	PASS	0.029	5.55	PASS	0.028	3.90	PASS	0.028	5.58	PASS	0.028	5.06	PASS	0.028	4.31	PASS	0.028	5.43	PASS	0.028
Avg	5.58		0.027	5.05		0.028	5.51		0.026	3.96		0.026	5.46		0.027	5.30		0.026	4.21		0.026	5.43		0.026
Min	5.52		0.025	5.00		0.025	5.40		0.024	3.90		0.024	5.36		0.024	4.95		0.024	4.13		0.024	5.32		0.023
Max	5.66		0.031	5.10		0.031	5.61		0.030	4.12		0.030	5.61		0.043	5.49		0.030	4.32		0.029	5.57		0.029

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.

Note: Look to General Sheet for note about Skid 4 LRV on the 1st

In Service Dates For Modules			
Train 1		Train 2	
Skid 1	8/2024	12/2023	Skid 2
Skid 3	11/2023	8/2015	Skid 4
Skid 5	2/2023	10/2024	Skid 6
Skid 7	8/2015	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
		Free Cl ₂					PO ₄		F ⁻		
		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
4/1/2025	6.5	0.36	0.25	0.70	1.12	1.03	3.19	3.32	0.08	0.52	0.73
4/2/2025	6.4	0.31	0.24	0.70	1.10	1.02	3.19	3.34	0.07	0.50	0.71
4/3/2025	6.3	0.38	0.24	0.70	1.10	0.99	3.19	3.32	0.09	0.50	0.68
4/4/2025	6.6	0.26	0.21	0.74	1.08	1.00	3.19	3.27	0.09	0.50	0.68
4/5/2025	6.5	0.36	0.18	0.78	1.13	0.99	3.19	3.26	0.09	0.50	0.67
4/6/2025	6.9	0.24	0.19	0.80	1.10	1.01	3.19	3.25	0.09	0.50	0.68
4/7/2025	6.5	0.15	0.13	0.88	1.11	0.98	3.19	3.25	0.09	0.50	0.69
4/8/2025	6.8	0.21	0.10	0.89	1.12	0.98	3.24	3.27	0.09	0.51	0.70
4/9/2025	6.4	0.22	0.10	0.85	1.12	0.99	3.29	3.34	0.09	0.51	0.69
4/10/2025	6.6	0.35	0.13	0.80	1.15	1.01	3.30	3.36	0.10	0.51	0.73
4/11/2025	6.9	0.47	0.24	0.70	1.15	1.03	3.30	3.36	0.10	0.51	0.75
4/12/2025	6.9	0.49	0.28	0.66	1.13	1.02	3.30	3.37	0.09	0.51	0.73
4/13/2025	6.4	0.54	0.34	0.58	1.13	1.02	3.30	3.37	0.10	0.51	0.75
4/14/2025	6.7	0.24	0.28	0.72	1.08	0.98	3.30	3.37	0.09	0.51	0.72
4/15/2025	6.6	0.22	0.18	0.80	1.10	1.00	3.30	3.37	0.09	0.50	0.73
4/16/2025	6.6	0.40	0.20	0.74	1.13	1.01	3.30	3.37	0.09	0.50	0.69
4/17/2025	6.6	0.55	0.30	0.66	1.13	1.02	3.30	3.37	0.09	0.50	0.71
4/18/2025	6.3	0.56	0.36	0.60	1.14	1.03	3.30	3.37	0.08	0.50	0.71
4/19/2025	6.8	0.44	0.35	0.61	1.09	1.01	3.30	3.37	0.08	0.50	0.72
4/20/2025	6.3	0.42	0.32	0.65	1.09	0.99	3.30	3.37	0.09	0.50	0.72
4/21/2025	6.6	0.45	0.32	0.70	1.12	0.98	3.30	3.36	0.09	0.50	0.70
4/22/2025	6.8	0.39	0.30	0.68	1.12	1.02	3.30	3.37	0.09	0.50	0.70
4/23/2025	6.4	0.33	0.24	0.74	1.10	0.99	3.30	3.38	0.09	0.50	0.69
4/24/2025	6.6	0.51	0.28	0.60	1.14	1.00	3.30	3.37	0.10	0.50	0.69
4/25/2025	7.0	0.42	0.30	0.56	1.10	1.01	3.30	3.37	0.09	0.50	0.68
4/26/2025	6.5	0.49	0.30	0.52	1.11	1.00	3.30	3.38	0.09	0.51	0.65
4/27/2025	7.0	0.21	0.26	0.60	1.08	0.98	3.30	3.37	0.09	0.52	0.70
4/28/2025	7.2	0.30	0.18	0.68	1.11	0.98	3.30	3.37	0.09	0.52	0.69
4/29/2025	7.6	0.40	0.20	0.60	1.13	1.02	3.30	3.38	0.09	0.52	0.69
4/30/2025	7.6	0.57	0.27	0.52	1.15	1.02	3.30	3.38	0.09	0.52	0.68
Avg	6.7	0.37	0.24	0.69	1.12	1.00	3.27	3.35	0.09	0.51	0.70
Min	6.3	0.15	0.10	0.52	1.08	0.98	3.19	3.25	0.07	0.50	0.65
Max	7.6	0.57	0.36	0.89	1.15	1.03	3.30	3.38	0.10	0.52	0.75

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	AIT-4040-1	Calculated	Calculated
4/1/2025	43.3	2,886	0.36	1030	28.5	24.0	5.8	625	1.01	314	1344	3.4	12.00	Y
4/2/2025	40.0	3,128	0.31	974	28.5	24.8	5.7	642	0.98	316	1289	3.5	12.00	Y
4/3/2025	39.7	3,149	0.38	1184	28.5	23.8	5.8	620	0.97	301	1486	3.7	12.00	Y
4/4/2025	45.8	2,729	0.26	710	28.5	22.3	6.0	585	0.98	286	996	3.8	12.00	Y
4/5/2025	55.4	2,259	0.36	809	28.2	19.6	5.8	561	0.97	272	1081	3.9	12.00	Y
4/6/2025	56.2	2,228	0.24	532	28.5	22.9	6.1	576	0.95	274	806	3.9	12.00	Y
4/7/2025	56.1	2,229	0.15	334	28.5	22.3	6.0	585	0.96	280	614	3.9	12.00	Y
4/8/2025	48.4	2,583	0.21	541	28.5	22.9	6.1	582	0.96	279	820	4.0	12.00	Y
4/9/2025	44.6	2,803	0.22	613	28.5	22.8	5.8	602	0.96	288	901	4.1	12.00	Y
4/10/2025	44.4	2,817	0.35	977	28.5	23.3	5.8	611	0.98	301	1278	4.2	12.00	Y
4/11/2025	48.1	2,599	0.47	1219	28.6	21.7	6.1	562	1.01	283	1502	4.2	12.00	Y
4/12/2025	58.0	2,157	0.49	1054	28.5	22.8	6.1	575	1.00	287	1341	4.1	12.00	Y
4/13/2025	60.3	2,076	0.54	1112	28.5	21.9	5.8	599	0.97	291	1403	4.2	12.00	Y
4/14/2025	61.1	2,048	0.24	499	28.7	22.0	6.0	582	0.94	273	771	5.0	12.00	Y
4/15/2025	44.0	2,841	0.22	623	28.5	22.4	5.9	597	0.97	290	913	5.3	8.00	Y
4/16/2025	42.1	2,974	0.40	1204	28.5	22.4	5.9	590	0.98	288	1492	5.1	8.00	Y
4/17/2025	41.7	2,997	0.55	1648	28.5	23.1	5.9	599	0.98	295	1943	5.2	8.00	Y
4/18/2025	44.1	2,836	0.56	1589	28.5	24.1	5.7	634	1.00	316	1906	5.4	8.00	Y
4/19/2025	55.6	2,248	0.44	978	28.5	22.8	5.9	594	0.97	288	1267	5.5	8.00	Y
4/20/2025	56.4	2,218	0.42	937	28.5	21.9	5.7	604	0.96	289	1226	5.6	8.00	Y
4/21/2025	54.3	2,305	0.45	1043	28.5	23.9	5.9	610	0.93	282	1325	5.8	8.00	Y
4/22/2025	44.1	2,837	0.39	1117	28.6	22.2	6.1	566	0.98	279	1396	5.9	8.00	Y
4/23/2025	40.7	3,071	0.33	1020	28.5	22.4	5.8	606	0.96	290	1310	6.3	8.00	Y
4/24/2025	41.9	2,987	0.51	1515	28.5	22.3	6.0	585	0.96	282	1797	6.5	8.00	Y
4/25/2025	45.6	2,741	0.42	1155	28.7	22.9	6.3	563	0.98	276	1431	6.5	8.00	Y
4/26/2025	60.8	2,057	0.49	1012	28.6	24.4	5.9	610	0.98	301	1312	6.5	8.00	Y
4/27/2025	61.6	2,030	0.21	436	28.7	22.2	6.4	547	0.95	260	696	6.8	8.00	Y
4/28/2025	58.1	2,153	0.30	651	28.7	22.3	6.5	541	0.94	255	906	7.8	8.00	Y
4/29/2025	62.5	2,000	0.40	805	28.7	22.8	6.9	512	0.99	254	1058	8.1	8.00	Y
4/30/2025	63.2	1,978	0.57	1126	28.6	22.8	6.7	522	0.98	257	1383	7.8	8.00	Y
Avg	50.6	2,532	0.37	948	28.5	22.7	6.0	586	0.97	285	1233	5.2	9.87	NA
Min	39.7	1,978	0.15	334	28.2	19.6	5.7	512	0.93	254	614	3.4	8.00	NA
Max	63.2	3,149	0.57	1648	28.7	24.8	6.9	642	1.01	316	1943	8.1	12.00	NA

Notes:

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

Note: Tap Chlorine CL17 ran dry of reagents on the 21st. The event caused a low reading of 0.1 mg/L and lasted roughly 30 mins. Comparing other CL17 in the process and results of a grab sample, tap chlorine didn't fall below 0.926 for the day. The value on the 21st on the CT page has been manually adjusted to show the corrected value.

Distribution System Monitoring																								
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)																								
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
4/1/2025	0.54	0.83	0.48	0.61	0.92				0.81	0.51	0.79	0.86	0.42	1.01	0.82	0.75	0.76	0.80	0.79	0.56		0.52		0.85
4/2/2025																								
4/3/2025						0.80	0.82		0.81	0.66	0.83	0.95	0.49	1.04	0.86									
4/4/2025																								
4/5/2025																								
4/6/2025																								
4/7/2025																								
4/8/2025				0.65	0.95											0.80	0.83	0.72	0.86	0.67		0.49		0.97
4/9/2025									0.65	0.53	0.77	0.80	0.47	0.98	0.78						0.66			
4/10/2025								0.97																
4/11/2025																								
4/12/2025																								
4/13/2025																								
4/14/2025																								1.02
4/15/2025		0.56	0.41	0.40	0.79																			
4/16/2025									0.70	0.34	0.75	0.83	0.44	0.97	0.78									
4/17/2025																								
4/18/2025																								
4/19/2025																								
4/20/2025																								
4/21/2025									0.68	0.53	0.80	0.83	0.56	1.00	0.80									
4/22/2025									0.62	0.31	0.74	0.87	0.65	0.98	0.79									0.98
4/23/2025																								
4/24/2025																								
4/25/2025																								
4/26/2025																								
4/27/2025																								
4/28/2025																								
4/29/2025																								
4/30/2025									0.65	0.35	0.72	0.86	0.74	0.98	0.85									
Average	0.54			0.66				0.86					0.73					0.75			0.66		0.51	0.96
Min	0.54			0.40				0.80					0.31					0.56			0.66		0.49	0.85
Max	0.54			0.95				0.97					1.04					0.86			0.66		0.52	1.02

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 |

Distribution System Monitoring																												
Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)																												
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	
4/1/2025	0.56	0.77	0.72	0.51	0.62	0.54	0.91	0.69		0.76		0.67		0.57		0.62	0.65	0.69	0.30		0.73	0.56	0.67	0.66	0.58	0.45		
4/2/2025																												
4/3/2025																												
4/4/2025																												
4/5/2025																												
4/6/2025																												
4/7/2025																												
4/8/2025																												
4/9/2025																												
4/10/2025																												
4/11/2025																												
4/12/2025																												
4/13/2025																												
4/14/2025																												
4/15/2025																												
4/16/2025																												
4/17/2025																												
4/18/2025																												
4/19/2025																												
4/20/2025																												
4/21/2025																												
4/22/2025																												
4/23/2025																												
4/24/2025																												
4/25/2025																												
4/26/2025																												
4/27/2025																												
4/28/2025																												
4/29/2025																												
4/30/2025																												
Average	0.67		0.54				0.76			0.65		0.67		0.63		0.69			0.42		0.64		0.56	0.68				0.45
Min	0.56		0.37				0.69			0.54		0.67		0.57		0.62			0.30		0.54		0.56	0.58				0.45
Max	0.77		0.72				0.91			0.76		0.67		0.68		0.84			0.53		0.73		0.56	0.75				0.45

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.

Distribution System Bacteriological							
Water Supplier Bacteriological Analysis Report							
MICHIGAN DEPARTMENT OF PUBLIC HEALTH Bureau of Enviromental Health Water Supplier Bacteriological Analysis Report				Name of Water Supply Bay Area Water Treatment Plant			
				April, 2025			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.54	1	1	0	0
BAY	Bangor Township	0390	0.66	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.86	3	3	0	0
BAY	Bay City	0470	0.73	30	49	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.75	9	10	0	0
BAY	Beaver Road Area	0517	0.66	1	1	0	0
BAY	Beaver Township	0518	0.51	2	2	0	0
BAY	Essexville	2180	0.96	4	4	0	0
BAY	Fraser Township	2465	0.67	2	2	0	0
BAY	Hampton Township	2960	0.54	10	10	0	0
BAY	Kawkawlin Township	3565	0.76	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.65	2	2	0	0
BAY	Linwood Metro Water District	3910	0.67	1	1	0	0
BAY	Merritt Township	4280	0.63	2	2	0	0
BAY	Monitor Township	4440	0.69	6	6	0	0
BAY	City of Pinconning	5330	0.42	2	2	0	0
BAY	Pinconning Township	5335	0.64	2	2	0	0
BAY	Portsmouth Township	5540	0.56	1	1	0	0
BAY	Williams Township	7125	0.68	6	6	0	0
Tuscola	Wisner	7134	0.45	1	1	0	0
				98			
Average Free Cl2 Residual of All Distribution Sites			0.65	mg/L			
1. Total distribution samples			118				
2. Total distribution samples with detectable free cl2 residual			118				
3. Total distribution samples with no detectable free cl2 residual			0				
4. Total distribution samples with no detectable free cl2 residual and HPC was <500			0				
5. Total distribution samples with no detectable free cl2 residual and HPC was >500			0				
6. Percent of distribution samples with no detectable free cl2 residual			0.00 %				
7. Percent shown line #6 in previous monthly report			0.00 %				