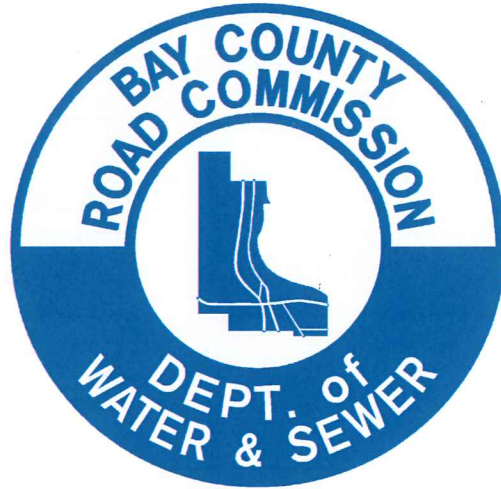


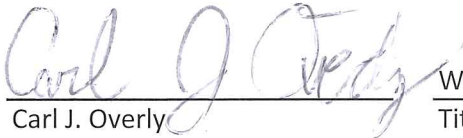
Bay Area WTP

Monthly Operations Report



January, 2024

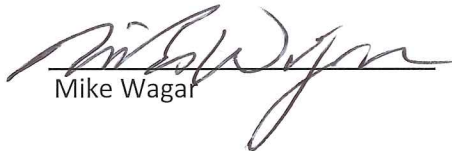
Water Systems Serial Number: 0465



Carl J. Overly

Water Plant Superintendent
Title

F-1, S-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, 2024
Month, Year

F-1, S-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>7.2</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>18.22</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>29.04</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,536</u>	Gallons	Estimated Supply:	<u>71.2</u>	days
Caustic Soda on hand:	<u>2,658</u>	Gallons	Estimated Supply:	<u>182.0</u>	days
Corrosion Inhibitor on hand:	<u>1,004</u>	Gallons	Estimated Supply:	<u>51.2</u>	days
Hydrofluosilicic Acid on hand:	<u>943</u>	Gallons	Estimated Supply:	<u>56.1</u>	days
Aluminum Chlorohydrate on hand:	<u>1,037</u>	Gallons	Estimated Supply:	<u>155.1</u>	days
Sulfuric Acid on hand:	<u>701</u>	Gallons	Estimated Supply:	<u>350.7</u>	days
Sodium Bisulfite on hand:	<u>894</u>	Gallons	Estimated Supply:	<u>308.2</u>	days
Citric Acid on hand:	<u>1,848</u>	Gallons	Estimated Supply:	<u>147.8</u>	days
Cost of All Chemicals per Million Gallons:	<u>101.21</u>	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	<u>1,027.50</u>	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	<u>2.74</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>No</u>



Notes

Replacement of Raw online Turbidity analyzer began on Jan 17, 11:30 a.m. with some adjustments made through the end of the month. The transition to the new turbidimeter has caused some dynamic readings as sample conditioning was dialed in over the remainder of the month.

On Saturday, Jan 13th the Plant experienced a complete power outage at 9:40am due to weather conditions. The back up Generator failed to start automatically and staff started it manually with power restored at 11:50am.

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
1/1/2024	0.00	5.84	5.84	0.26	0.08	5.76	2.73	2.39	5.12
1/2/2024	0.00	5.82	5.82	0.28	0.08	5.97	2.91	2.54	5.45
1/3/2024	0.00	6.39	6.39	0.26	0.09	6.51	3.09	2.71	5.80
1/4/2024	0.00	6.71	6.71	0.28	0.08	6.19	2.99	2.59	5.58
1/5/2024	0.00	6.30	6.30	0.28	0.08	6.09	2.92	2.54	5.46
1/6/2024	0.00	5.90	5.90	0.26	0.08	5.80	2.78	2.48	5.26
1/7/2024	0.00	5.69	5.69	0.22	0.13	6.30	2.93	2.64	5.57
1/8/2024	0.00	6.27	6.27	0.27	0.10	6.23	2.99	2.64	5.63
1/9/2024	0.00	6.60	6.60	0.29	0.08	5.88	2.81	2.45	5.26
1/10/2024	0.00	5.90	5.90	0.26	0.08	6.13	2.87	2.59	5.46
1/11/2024	0.00	6.01	6.01	0.19	0.17	5.95	2.84	2.52	5.36
1/12/2024	0.00	5.79	5.79	0.22	0.11	5.76	2.73	2.42	5.15
1/13/2024	0.00	5.11	5.11	0.29	0.07	6.33	3.05	2.71	5.76
1/14/2024	0.00	6.19	6.19	0.28	0.08	6.36	2.98	2.70	5.69
1/15/2024	0.00	6.76	6.76	0.30	0.08	6.28	2.98	2.74	5.71
1/16/2024	0.00	6.93	6.93	0.23	0.13	6.81	3.20	2.97	6.18
1/17/2024	0.00	7.18	7.18	0.26	0.12	6.78	3.15	2.90	6.05
1/18/2024	0.00	7.07	7.07	0.25	0.08	6.48	3.12	2.87	5.99
1/19/2024	0.00	6.43	6.43	0.26	0.10	6.76	3.14	2.85	5.99
1/20/2024	0.00	6.42	6.42	0.28	0.08	6.42	3.07	2.80	5.87
1/21/2024	0.00	6.59	6.59	0.28	0.08	6.79	3.17	2.90	6.07
1/22/2024	0.00	6.91	6.91	0.26	0.09	6.51	3.12	2.83	5.95
1/23/2024	0.00	6.78	6.78	0.23	0.13	6.92	3.28	3.00	6.27
1/24/2024	0.00	6.96	6.96	0.33	0.08	7.22	3.47	3.09	6.56
1/25/2024	0.00	7.32	7.32	0.32	0.08	7.10	3.44	3.01	6.45
1/26/2024	0.00	7.18	7.18	0.29	0.08	6.89	3.28	2.92	6.20
1/27/2024	0.00	7.09	7.09	0.22	0.15	6.85	3.30	2.96	6.26
1/28/2024	0.00	7.05	7.05	0.15	0.24	7.04	3.36	3.02	6.37
1/29/2024	0.00	7.19	7.19	0.16	0.24	6.69	3.24	2.89	6.13
1/30/2024	0.00	6.94	6.94	0.19	0.13	6.64	3.16	2.76	5.92
1/31/2024	0.00	6.44	6.44	0.33	0.08	6.64	3.19	2.77	5.96
Total	0.00	201.74	201.74	7.98	3.25	200.09	95.30	85.20	180.50
Avg	0.00	6.51	6.51	0.26	0.10	6.45	3.07	2.75	5.82
Min	0.00	5.11	5.11	0.15	0.07	5.76	2.73	2.39	5.12
Max	0.00	7.32	7.32	0.33	0.24	7.22	3.47	3.09	6.56



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	AIT-1035-2	Lab	
1/1/2024	7.2	7.99	0.41	1.18	0.09	0.40	Negative	Negative
1/2/2024	7.3	8.00	1.85	4.88	0.09	0.30	Negative	Negative
1/3/2024	7.2	7.99	2.53	14.46	0.08	0.30	Negative	Negative
1/4/2024	7.1	7.98	0.89	1.43	0.08	0.37	Negative	Negative
1/5/2024	6.9	8.00	0.71	1.98	0.08	0.34	Negative	Negative
1/6/2024	6.7	8.00	0.64	1.04	0.08	0.38	Negative	Negative
1/7/2024	6.7	7.98	0.63	2.28	0.08	0.40	Negative	Negative
1/8/2024	6.7	7.97	0.40	1.29	0.08	0.40	Negative	Negative
1/9/2024	6.6	7.98	0.36	0.70	0.08	0.38	Negative	Negative
1/10/2024	6.5	7.98	0.28	0.35	0.08	0.37	Negative	Negative
1/11/2024	7.1	7.90	1.92	4.95	0.09	0.35	Negative	Negative
1/12/2024	7.3	7.84	2.31	5.50	0.08	0.35	Negative	Negative
1/13/2024	6.9	7.85	1.19	2.20	0.09	0.45	Negative	Negative
1/14/2024	7.0	7.85	10.20	74.99	0.09	0.21	Negative	Negative
1/15/2024	5.0	7.82	8.09	31.60	0.09	0.39	Negative	Negative
1/16/2024	6.0	7.72	3.35	11.78	0.09	0.46	Negative	Negative
1/17/2024	2.7	7.74	1.43	25.66	0.09	0.62	Negative	Negative
1/18/2024	5.5	7.95	0.52	2.44	0.09	0.57	Negative	Negative
1/19/2024	5.0	8.01	0.44	1.16	0.08	0.55	Negative	Negative
1/20/2024	5.1	7.99	1.96	6.70	0.08	0.43	Negative	Negative
1/21/2024	5.4	7.94	2.19	33.03	0.08	0.45	Negative	Negative
1/22/2024	5.0	7.96	1.23	6.35	0.08	0.35	Negative	Negative
1/23/2024	4.9	7.97	1.28	2.51	0.09	0.29	Negative	Negative
1/24/2024	4.8	7.98	1.02	2.34	0.08	0.31	Negative	Negative
1/25/2024	4.8	7.99	2.83	64.11	0.09	0.27	Negative	Negative
1/26/2024	4.5	7.99	0.81	10.57	0.09	0.24	Negative	Negative
1/27/2024	4.4	7.98	1.55	6.37	0.09	0.30	Negative	Negative
1/28/2024	4.5	7.95	1.52	5.33	0.09	0.44	Negative	Negative
1/29/2024	4.4	7.96	0.78	6.39	0.09	0.52	Negative	Negative
1/30/2024	4.9	7.93	0.84	2.77	0.08	0.45	Negative	Negative
1/31/2024	4.8	7.96	1.43	76.88	0.08	0.40	Negative	Negative
Avg	5.8	7.94	1.79	13.33	0.08	0.39	NA	NA
Min	2.7	7.72	0.28	0.35	0.08	0.21	NA	NA
Max	7.3	8.01	10.20	76.88	0.09	0.62	NA	NA



Finished Water Analysis																		
Date	Temp	pH	Phosphate	Fluoride		Free Cl ₂	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	Carbonate	Bicarbonate	Grab	Grab	Grab	Grab	Grab	Calculated	Calculated	Positive/Negative		
	°C		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		
1/1/2024	6.6	7.74	3.40	0.78	0.76	1.02	0	75	10	10	76	12.2	239	-0.79	1.00	0.40	Negative	Negative
1/2/2024	6.6	7.74	3.40	0.79		1.03	0	78	11	9	68	12.4	243	-0.82	1.22	0.39	Negative	Negative
1/3/2024	6.5	7.74	3.40	0.76		1.03	0	76	10	9	72	13.0	241	-0.81	1.11	0.38	Negative	Negative
1/4/2024	6.3	7.74	3.40	0.76		1.03	0	76	10	11	76	12.4	239	-0.79	0.91	0.41	Negative	Negative
1/5/2024	6.1	7.74	3.37	0.76		1.00	0	74	12	10	82	12.7	244	-0.77	1.20	0.45	Negative	Negative
1/6/2024	6.0	7.75	3.38	0.76		1.02	0	72	9	9	78	12.4	245	-0.80	1.00	0.38	Negative	Negative
1/7/2024	5.9	7.74	3.39	0.77		1.02	0	73	9	10	76	11.9	248	-0.83	0.90	0.39	Negative	Negative
1/8/2024	5.8	7.74	3.40	0.77	0.75	1.02	0	74	9	9	78	13.0	241	-0.81	1.00	0.37	Negative	Negative
1/9/2024	5.8	7.74	3.40	0.77		1.03	0	74	9	9	76	12.3	243	-0.82	1.00	0.37	Negative	Negative
1/10/2024	5.7	7.73	3.40	0.76		1.02	0	74	11	10	74	13.1	242	-0.84	1.10	0.43	Negative	Negative
1/11/2024	5.7	7.73	3.40	0.78		1.02	0	74	10	10	76	12.3	241	-0.83	1.00	0.41	Negative	Negative
1/12/2024	5.8	7.70	3.40	0.78		1.03	0	75	9	10	66	11.9	240	-0.92	0.90	0.38	Negative	Negative
1/13/2024	5.5	7.76	3.33	0.78		1.04	0	75	10	10	68	11.8	243	-0.85	1.00	0.40	Negative	Negative
1/14/2024	5.3	7.76	3.40	0.79		1.04	0	78	10	9	68	12.0	246	-0.84	1.11	0.37	Negative	Negative
1/15/2024	5.0	7.78	3.40	0.78	0.77	1.03	0	77	10	9	66	11.5	250	-0.85	1.11	0.37	Negative	Negative
1/16/2024	4.6	7.67	3.40	0.78		1.04	0	80	9	10	72	15.5	257	-0.92	0.90	0.35	Negative	Negative
1/17/2024	4.5	7.53	3.39	0.78		1.05	0	78	10	11	74	13.9	250	-1.05	0.91	0.40	Negative	Negative
1/18/2024	4.5	7.58	3.39	0.78		1.03	0	75	9	10	80	13.7	246	-0.99	0.90	0.38	Negative	Negative
1/19/2024	4.4	7.52	3.39	0.77		1.03	0	73	9	9	78	13.6	244	-1.07	1.00	0.37	Negative	Negative
1/20/2024	4.3	7.51	3.39	0.78		1.01	0	74	9	10	78	14.0	243	-1.08	0.90	0.38	Negative	Negative
1/21/2024	4.3	7.50	3.38	0.78		1.01	0	75	9	9	78	14.0	244	-1.09	1.00	0.36	Negative	Negative
1/22/2024	3.5	7.51	3.39	0.78	0.72	1.01	0	74	9	9	78	13.8	246	-1.10	1.00	0.37	Negative	Negative
1/23/2024	3.0	7.54	3.40	0.78		1.01	0	77	9	9	78	13.9	257	-1.06	1.00	0.35	Negative	Negative
1/24/2024	2.9	7.56	3.39	0.78		1.01	0	78	11	11	78	13.8	262	-1.05	1.00	0.43	Negative	Negative
1/25/2024	2.8	7.58	3.39	0.78		1.02	0	80	10	11	70	13.3	256	-1.07	0.91	0.39	Negative	Negative
1/26/2024	2.8	7.59	3.39	0.79		1.02	0	79	10	10	70	12.3	265	-1.07	1.00	0.38	Negative	Negative
1/27/2024	2.8	7.57	3.38	0.79		1.02	0	81	12	11	68	13.7	265	-1.08	1.09	0.43	Negative	Negative
1/28/2024	2.7	7.57	3.38	0.79		1.02	0	80	10	10	68	13.3	261	-1.09	1.00	0.38	Negative	Negative
1/29/2024	2.7	7.56	3.38	0.79	0.78	1.03	0	79	10	10	70	12.6	255	-1.09	1.00	0.38	Negative	Negative
1/30/2024	2.7	7.58	3.39	0.77		1.04	0	77	10	10	70	13.8	260	-1.09	1.00	0.39	Negative	Negative
1/31/2024	2.7	7.57	3.38	0.79		1.03	0	76	9	10	74	13.9	248	-1.07	0.90	0.37	Negative	Negative
Avg	4.6	7.65	3.39	0.78	0.76	1.02	0	76	10	10	74	13.0	248	-0.95	1.00	0.39	NA	NA
Min	2.7	7.50	3.33	0.76	0.72	1.00	0	72	9	9	66	11.5	239	-1.10	0.90	0.35	NA	NA
Max	6.6	7.78	3.40	0.79	0.78	1.05	0	81	12	11	82	15.5	265	-0.77	1.22	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
1/1/2024	0.41	1.18	2.43	0.69	0.022	0.022	96	0	0.0	0.014
1/2/2024	1.85	4.88	2.77	0.88	0.022	0.022	96	0	0.0	0.014
1/3/2024	2.53	14.46	4.28	2.02	0.022	0.022	96	0	0.0	0.014
1/4/2024	0.89	1.43	3.87	1.38	0.022	0.022	96	0	0.0	0.014
1/5/2024	0.71	1.98	3.00	1.13	0.022	0.022	96	0	0.0	0.014
1/6/2024	0.64	1.04	2.63	0.88	0.022	0.022	96	0	0.0	0.014
1/7/2024	0.63	2.28	2.23	0.81	0.022	0.022	96	0	0.0	0.014
1/8/2024	0.40	1.29	2.34	0.56	0.022	0.022	96	0	0.0	0.014
1/9/2024	0.36	0.70	2.32	0.42	0.022	0.022	96	0	0.0	0.014
1/10/2024	0.28	0.35	2.14	0.44	0.022	0.022	96	0	0.0	0.014
1/11/2024	1.92	4.95	3.56	0.80	0.022	0.022	96	0	0.0	0.014
1/12/2024	2.31	5.50	3.70	1.74	0.022	0.022	96	0	0.0	0.014
1/13/2024	1.19	2.20	1.72	1.56	0.022	0.022	96	0	0.0	0.014
1/14/2024	10.20	74.99	0.66	4.18	0.022	0.023	96	0	0.0	0.014
1/15/2024	8.09	31.60	0.52	7.63	0.022	0.023	96	0	0.0	0.014
1/16/2024	3.35	11.78	0.66	6.04	0.022	0.023	96	0	0.0	0.014
1/17/2024	1.43	25.66	0.78	4.00	0.022	0.023	96	0	0.0	0.014
1/18/2024	0.52	2.44	0.78	2.25	0.022	0.023	96	0	0.0	0.014
1/19/2024	0.44	1.16	1.24	1.44	0.022	0.022	96	0	0.0	0.014
1/20/2024	1.96	6.70	1.34	1.88	0.022	0.022	96	0	0.0	0.014
1/21/2024	2.19	33.03	1.16	3.48	0.022	0.023	96	0	0.0	0.014
1/22/2024	1.23	6.35	1.46	2.53	0.022	0.023	96	0	0.0	0.014
1/23/2024	1.28	2.51	2.55	2.43	0.022	0.023	96	0	0.0	0.014
1/24/2024	1.02	2.34	4.85	2.23	0.022	0.023	96	0	0.0	0.014
1/25/2024	2.83	64.11	3.22	1.78	0.022	0.023	96	0	0.0	0.014
1/26/2024	0.81	10.57	3.46	1.76	0.022	0.022	96	0	0.0	0.014
1/27/2024	1.55	6.37	3.19	1.98	0.022	0.023	96	0	0.0	0.014
1/28/2024	1.52	5.33	2.17	2.75	0.022	0.023	96	0	0.0	0.014
1/29/2024	0.78	6.39	1.67	2.13	0.022	0.022	96	0	0.0	0.014
1/30/2024	0.84	2.77	1.28	1.60	0.022	0.022	96	0	0.0	0.014
1/31/2024	1.43	76.88	1.76	1.35	0.022	0.022	96	0	0.0	0.014
Avg	1.79	13.33	2.25	2.09	0.022	0.022	96	0	0.0	0.014
Min	0.28	0.35	0.52	0.42	0.022	0.022	96	0	0.0	0.014
Max	10.20	76.88	4.85	7.63	0.022	0.023	96	0	0.0	0.014



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	Max		Minimum	Max		Minimum	Max		Minimum	Max		Minimum	Max		Minimum	Max		Minimum	Max		Minimum	Max	
	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
1/1/2024	4.21	PASS	0.021	5.41	PASS	0.023	4.83	PASS	0.020	4.32	PASS	0.021	5.56	PASS	0.021	4.24	PASS	0.024	4.23	PASS	0.027	4.76	PASS	0.022
1/2/2024	4.22	PASS	0.021	5.41	PASS	0.023	4.84	PASS	0.021	4.32	PASS	0.020	5.57	PASS	0.021	4.25	PASS	0.024	4.23	PASS	0.027	4.75	PASS	0.022
1/3/2024	4.26	PASS	0.021	5.40	PASS	0.023	4.83	PASS	0.021	4.30	PASS	0.020	5.57	PASS	0.022	4.29	PASS	0.024	4.22	PASS	0.026	4.73	PASS	0.022
1/4/2024	4.26	PASS	0.021	5.40	PASS	0.023	4.83	PASS	0.020	4.33	PASS	0.021	5.67	PASS	0.021	4.26	PASS	0.024	4.22	PASS	0.026	4.77	PASS	0.022
1/5/2024	4.25	PASS	0.020	5.38	PASS	0.023	4.82	PASS	0.020	4.36	PASS	0.020	5.60	PASS	0.026	4.12	PASS	0.024	4.24	PASS	0.028	4.75	PASS	0.022
1/6/2024	4.24	PASS	0.020	5.37	PASS	0.024	4.85	PASS	0.021	4.31	PASS	0.020	5.57	PASS	0.021	4.22	PASS	0.024	4.23	PASS	0.028	4.76	PASS	0.023
1/7/2024	4.18	PASS	0.021	5.40	PASS	0.024	4.84	PASS	0.020	4.32	PASS	0.020	5.58	PASS	0.024	4.22	PASS	0.023	4.23	PASS	0.027	4.79	PASS	0.024
1/8/2024	4.15	PASS	0.021	5.39	PASS	0.024	4.85	PASS	0.020	4.36	PASS	0.020	5.56	PASS	0.021	4.22	PASS	0.023	4.32	PASS	0.028	4.80	PASS	0.023
1/9/2024	4.17	PASS	0.020	5.40	PASS	0.023	4.83	PASS	0.019	4.31	PASS	0.022	5.62	PASS	0.021	4.25	PASS	0.023	4.26	PASS	0.027	4.81	PASS	0.023
1/10/2024	4.16	PASS	0.020	5.40	PASS	0.023	4.84	PASS	0.019	4.27	PASS	0.020	5.58	PASS	0.023	4.24	PASS	0.023	4.23	PASS	0.028	4.76	PASS	0.022
1/11/2024	4.20	PASS	0.020	5.46	PASS	0.023	4.84	PASS	0.019	4.27	PASS	0.021	5.53	PASS	0.022	4.24	PASS	0.023	4.33	PASS	0.027	4.76	PASS	0.023
1/12/2024	4.25	PASS	0.021	5.42	PASS	0.023	4.80	PASS	0.020	4.29	PASS	0.020	5.59	PASS	0.021	4.21	PASS	0.023	4.29	PASS	0.028	4.79	PASS	0.022
1/13/2024	4.22	PASS	0.020	5.41	PASS	0.023	4.78	PASS	0.019	4.29	PASS	0.021	5.61	PASS	0.034	4.23	PASS	0.023	4.29	PASS	0.028	4.83	PASS	0.022
1/14/2024	4.12	PASS	0.021	5.43	PASS	0.023	4.79	PASS	0.021	4.23	PASS	0.019	5.50	PASS	0.022	4.20	PASS	0.024	4.31	PASS	0.029	4.80	PASS	0.022
1/15/2024	4.11	PASS	0.025	5.39	PASS	0.024	4.82	PASS	0.022	4.20	PASS	0.020	5.49	PASS	0.023	4.14	PASS	0.025	4.28	PASS	0.029	4.76	PASS	0.023
1/16/2024	4.11	PASS	0.024	5.39	PASS	0.023	4.88	PASS	0.020	4.18	PASS	0.020	5.48	PASS	0.024	4.12	PASS	0.025	4.26	PASS	0.029	4.82	PASS	0.023
1/17/2024	4.11	PASS	0.023	5.40	PASS	0.024	4.86	PASS	0.021	4.23	PASS	0.025	5.49	PASS	0.022	4.20	PASS	0.024	4.20	PASS	0.028	4.84	PASS	0.022
1/18/2024	4.11	PASS	0.021	5.41	PASS	0.023	4.83	PASS	0.020	4.24	PASS	0.021	5.48	PASS	0.021	4.19	PASS	0.024	4.24	PASS	0.028	4.85	PASS	0.022
1/19/2024	4.11	PASS	0.021	5.44	PASS	0.023	4.83	PASS	0.020	4.22	PASS	0.019	5.49	PASS	0.021	4.18	PASS	0.023	4.23	PASS	0.028	4.85	PASS	0.021
1/20/2024	4.20	PASS	0.021	5.42	PASS	0.023	4.84	PASS	0.020	4.24	PASS	0.016	5.48	PASS	0.024	4.17	PASS	0.023	4.23	PASS	0.028	4.79	PASS	0.021
1/21/2024	4.18	PASS	0.024	5.41	PASS	0.023	4.91	PASS	0.021	4.28	PASS	0.019	5.49	PASS	0.021	4.18	PASS	0.024	4.22	PASS	0.028	4.81	PASS	0.022
1/22/2024	4.18	PASS	0.022	5.41	PASS	0.023	4.90	PASS	0.021	4.45	PASS	0.018	5.49	PASS	0.021	4.19	PASS	0.023	4.21	PASS	0.028	4.91	PASS	0.022
1/23/2024	4.14	PASS	0.022	5.41	PASS	0.023	4.92	PASS	0.021	4.36	PASS	0.021	5.52	PASS	0.021	4.36	PASS	0.027	4.27	PASS	0.027	4.81	PASS	0.022
1/24/2024	4.15	PASS	0.021	5.42	PASS	0.023	4.95	PASS	0.020	4.29	PASS	0.021	5.49	PASS	0.022	4.28	PASS	0.024	4.27	PASS	0.027	4.84	PASS	0.022
1/25/2024	4.19	PASS	0.025	5.43	PASS	0.023	4.94	PASS	0.020	4.28	PASS	0.021	5.49	PASS	0.023	4.24	PASS	0.024	4.27	PASS	0.028	5.02	PASS	0.022
1/26/2024	4.16	PASS	0.023	5.42	PASS	0.023	4.91	PASS	0.020	4.30	PASS	0.021	5.37	PASS	0.021	4.20	PASS	0.024	4.22	PASS	0.028	5.08	PASS	0.022
1/27/2024	4.21	PASS	0.021	5.44	PASS	0.023	4.86	PASS	0.021	4.24	PASS	0.021	5.53	PASS	0.021	4.22	PASS	0.024	4.25	PASS	0.027	4.99	PASS	0.022
1/28/2024	4.17	PASS	0.021	5.43	PASS	0.023	4.85	PASS	0.021	4.23	PASS	0.021	5.51	PASS	0.021	4.19	PASS	0.023	4.21	PASS	0.027	5.03	PASS	0.022
1/29/2024	4.17	PASS	0.021	5.41	PASS	0.023	4.88	PASS	0.020	4.23	PASS	0.021	5.46	PASS	0.022	4.20	PASS	0.024	4.21	PASS	0.027	4.97	PASS	0.022
1/30/2024	4.15	PASS	0.021	5.41	PASS	0.023	4.90	PASS	0.020	4.30	PASS	0.021	5.52	PASS	0.021	4.19	PASS	0.023	4.28	PASS	0.027	4.80	PASS	0.022
1/31/2024	4.16	PASS	0.021	5.41	PASS	0.023	4.90	PASS	0.020	4.29	PASS	0.021	5.31	PASS	0.021	4.25	PASS	0.023	4.19	PASS	0.027	4.81	PASS	0.022
Avg	4.18		0.021	5.41		0.023	4.86		0.020	4.28		0.020	5.52		0.022	4.22		0.024	4.25		0.028	4.83		0.022
Min	4.11		0.020	5.37		0.023	4.78		0.019	4.18		0.016	5.31		0.021	4.12		0.023	4.19		0.026	4.73		0.021
Max	4.26		0.025	5.46		0.024	4.95		0.022	4.45		0.025	5.67		0.034	4.36		0.027	4.33		0.029	5.08		0.024

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.

In Service Dates For Modules			
Train 1		Train 2	
Skid 1	8/2015	12/2023	Skid 2
Skid 3	11/2023	8/2015	Skid 4
Skid 5	2/2023	8/2015	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
	Volume	Free Cl ₂					PO4		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	Added	Lab
1/1/2024	5.8	0.40	0.29	0.82	1.10	1.02	3.26	3.40	0.09	0.62	0.78
1/2/2024	6.0	0.30	0.27	0.86	1.09	1.03	3.26	3.40	0.09	0.62	0.79
1/3/2024	6.5	0.30	0.22	0.88	1.11	1.03	3.26	3.40	0.08	0.62	0.76
1/4/2024	6.2	0.37	0.26	0.78	1.09	1.03	3.26	3.40	0.08	0.62	0.76
1/5/2024	6.1	0.34	0.26	0.82	1.07	1.00	3.26	3.37	0.08	0.62	0.76
1/6/2024	5.8	0.38	0.26	0.80	1.08	1.02	3.26	3.38	0.08	0.62	0.76
1/7/2024	6.3	0.40	0.28	0.77	1.09	1.02	3.26	3.39	0.08	0.62	0.77
1/8/2024	6.2	0.40	0.30	0.77	1.09	1.02	3.26	3.40	0.08	0.62	0.77
1/9/2024	5.9	0.38	0.30	0.77	1.09	1.03	3.26	3.40	0.08	0.62	0.77
1/10/2024	6.1	0.37	0.29	0.77	1.09	1.02	3.26	3.40	0.08	0.62	0.76
1/11/2024	6.0	0.35	0.29	0.79	1.08	1.02	3.26	3.40	0.09	0.62	0.78
1/12/2024	5.8	0.35	0.26	0.80	1.09	1.03	3.26	3.40	0.08	0.62	0.78
1/13/2024	6.3	0.45	0.29	0.80	1.10	1.04	3.26	3.33	0.09	0.62	0.78
1/14/2024	6.4	0.21	0.24	0.90	1.09	1.04	3.26	3.40	0.09	0.62	0.79
1/15/2024	6.3	0.39	0.23	0.86	1.10	1.03	3.26	3.40	0.09	0.62	0.78
1/16/2024	6.8	0.46	0.29	0.82	1.11	1.04	3.26	3.40	0.09	0.62	0.78
1/17/2024	6.8	0.62	0.39	0.65	1.09	1.05	3.26	3.39	0.09	0.62	0.78
1/18/2024	6.5	0.57	0.45	0.63	1.08	1.03	3.26	3.39	0.09	0.62	0.78
1/19/2024	6.8	0.55	0.45	0.61	1.07	1.03	3.26	3.39	0.08	0.62	0.77
1/20/2024	6.4	0.43	0.43	0.65	1.05	1.01	3.26	3.39	0.08	0.62	0.78
1/21/2024	6.8	0.45	0.37	0.72	1.07	1.01	3.26	3.38	0.08	0.62	0.78
1/22/2024	6.5	0.35	0.34	0.80	1.06	1.01	3.26	3.39	0.08	0.62	0.78
1/23/2024	6.9	0.29	0.27	0.82	1.06	1.01	3.26	3.40	0.09	0.62	0.78
1/24/2024	7.2	0.31	0.25	0.86	1.07	1.01	3.26	3.39	0.08	0.62	0.78
1/25/2024	7.1	0.27	0.23	0.90	1.08	1.02	3.26	3.39	0.09	0.62	0.78
1/26/2024	6.9	0.24	0.20	0.94	1.09	1.02	3.26	3.39	0.09	0.62	0.79
1/27/2024	6.8	0.30	0.20	0.90	1.08	1.02	3.26	3.38	0.09	0.62	0.79
1/28/2024	7.0	0.44	0.25	0.85	1.09	1.02	3.26	3.38	0.09	0.62	0.79
1/29/2024	6.7	0.52	0.34	0.74	1.09	1.03	3.26	3.38	0.09	0.62	0.79
1/30/2024	6.6	0.45	0.38	0.74	1.09	1.04	3.26	3.39	0.08	0.62	0.77
1/31/2024	6.6	0.40	0.37	0.73	1.07	1.03	3.26	3.38	0.08	0.62	0.79
Avg	6.5	0.39	0.30	0.79	1.08	1.02	3.26	3.39	0.08	0.62	0.78
Min	5.8	0.21	0.20	0.61	1.05	1.00	3.26	3.33	0.08	0.62	0.76
Max	7.2	0.62	0.45	0.94	1.11	1.05	3.26	3.40	0.09	0.62	0.79



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	TIT-1000	Calculated	Calculated
1/1/2024	39.9	3,133	0.40	1243	28.6	24.2	5.1	706	0.97	686	1929	7.2	8.00	Y
1/2/2024	34.7	3,605	0.30	1079	28.7	23.3	5.5	653	0.99	648	1727	7.3	8.00	Y
1/3/2024	39.9	3,136	0.30	933	28.7	23.0	5.8	610	0.98	601	1534	7.2	8.00	Y
1/4/2024	41.5	3,018	0.37	1116	28.7	24.6	5.6	655	1.01	663	1779	7.1	8.00	Y
1/5/2024	41.7	3,000	0.34	1019	28.7	24.6	5.5	668	0.95	635	1654	6.9	8.00	Y
1/6/2024	52.7	2,372	0.38	901	28.6	23.6	5.3	680	0.96	651	1553	6.7	8.00	Y
1/7/2024	52.9	2,367	0.40	941	28.7	22.9	5.6	634	0.96	611	1553	6.7	8.00	Y
1/8/2024	43.9	2,849	0.40	1150	28.7	24.0	5.6	641	1.00	640	1790	6.7	8.00	Y
1/9/2024	37.8	3,312	0.38	1267	28.6	24.0	5.3	685	0.98	670	1936	6.6	8.00	Y
1/10/2024	38.7	3,229	0.37	1183	28.7	25.7	5.5	682	0.98	667	1850	6.5	8.00	Y
1/11/2024	39.0	3,207	0.35	1110	28.7	25.2	5.4	688	0.97	668	1778	7.1	8.00	Y
1/12/2024	41.7	2,998	0.35	1049	28.6	25.2	5.1	716	0.96	686	1735	7.3	8.00	Y
1/13/2024	48.8	2,561	0.45	1152	28.2	23.6	5.8	617	1.01	621	1773	6.9	8.00	Y
1/14/2024	48.9	2,557	0.21	543	28.6	25.3	5.7	650	1.02	662	1205	7.0	8.00	Y
1/15/2024	41.5	3,015	0.39	1171	28.7	24.9	5.7	643	1.01	647	1818	5.0	8.00	Y
1/16/2024	37.9	3,297	0.46	1528	28.5	24.1	6.2	584	1.02	595	2122	6.0	8.00	Y
1/17/2024	38.6	3,243	0.62	1997	28.7	24.8	6.0	606	1.02	618	2615	2.7	12.00	Y
1/18/2024	40.8	3,068	0.57	1749	28.7	23.7	6.0	599	0.99	595	2343	5.5	8.00	Y
1/19/2024	50.8	2,464	0.55	1355	28.7	23.5	6.0	597	1.02	609	1964	5.0	8.00	Y
1/20/2024	51.2	2,444	0.43	1043	28.7	24.9	5.9	625	1.00	624	1668	5.1	8.00	Y
1/21/2024	52.0	2,406	0.45	1082	28.7	24.6	6.1	601	0.99	596	1678	5.4	8.00	Y
1/22/2024	45.8	2,732	0.35	952	28.7	24.5	5.9	613	0.99	608	1560	5.0	12.00	Y
1/23/2024	43.4	2,884	0.29	847	28.7	21.7	6.3	551	0.97	535	1382	4.9	12.00	Y
1/24/2024	38.6	3,244	0.31	1012	28.7	24.5	6.6	556	0.98	548	1559	4.8	12.00	Y
1/25/2024	40.3	3,102	0.27	832	28.7	24.7	6.5	567	0.98	559	1391	4.8	12.00	Y
1/26/2024	51.6	2,422	0.24	587	28.7	24.4	6.2	587	1.00	586	1173	4.5	12.00	Y
1/27/2024	55.2	2,264	0.30	690	28.7	25.1	6.3	589	1.01	597	1286	4.4	12.00	Y
1/28/2024	55.3	2,263	0.44	995	28.7	23.7	6.4	564	1.01	567	1562	4.5	12.00	Y
1/29/2024	49.1	2,545	0.52	1325	28.7	23.8	6.1	587	1.03	603	1927	4.4	12.00	Y
1/30/2024	37.5	3,334	0.45	1506	28.7	24.3	5.9	614	0.97	596	2102	4.9	12.00	Y
1/31/2024	35.9	3,484	0.40	1391	28.6	25.2	6.0	619	1.00	619	2010	4.8	12.00	Y
Avg	44.1	2,889	0.39	1121	28.7	24.2	5.8	625	0.99	620	1740	5.8	9.42	NA
Min	34.7	2,263	0.21	543	28.2	21.7	5.1	551	0.95	535	1173	2.7	8.00	NA
Max	55.3	3,605	0.62	1997	28.7	25.7	6.6	716	1.03	686	2615	7.3	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 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
1/1/2024									0.87	0.59	0.64	0.81	0.39	0.92	0.68									
1/2/2024																								
1/3/2024																								
1/4/2024	0.29	0.72	0.40	0.46	0.59				0.86	0.54	0.63	0.82	0.40	0.94	0.71	0.79	0.74	0.80	0.72	0.64		0.37		0.89
1/5/2024																								
1/6/2024																								
1/7/2024																								
1/8/2024																								0.83
1/9/2024						0.77	0.95																	
1/10/2024									0.73	0.56	0.63	0.78	0.41	0.94	0.73									
1/11/2024		0.74	0.58													0.76	0.77	0.80	0.63	0.78		0.42		
1/12/2024																								
1/13/2024																								
1/14/2024																								
1/15/2024																								
1/16/2024		0.35	0.60	0.58	0.89			0.96	0.81		0.73	0.84		0.94	0.71									0.88
1/17/2024																								
1/18/2024									0.76	0.55	0.85	0.86	0.54	0.32	0.32						0.81			
1/19/2024																								
1/20/2024																								
1/21/2024																								
1/22/2024																								0.80
1/23/2024																								
1/24/2024									0.86		0.71	0.88		0.94	0.68									
1/25/2024																								
1/26/2024																								
1/27/2024																								
1/28/2024																								
1/29/2024																								
1/30/2024																								
1/31/2024																								
Average	0.29			0.59				0.89				0.71						0.74			0.81		0.40	0.85
Min	0.29			0.35				0.77				0.32						0.63			0.81		0.37	0.80
Max	0.29			0.89				0.96				0.94						0.80			0.81		0.42	0.89



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. B's Boutique, 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	37	38	39	40	41	42	43	45	73	74	46	48	49	52	55	58	59	61	63	65	68	69	70	72		
1/1/2024																												
1/2/2024																												
1/3/2024																												
1/4/2024													0.54									0.58	0.35	0.41	0.43		0.42	
1/5/2024																												
1/6/2024																												
1/7/2024																												
1/8/2024											0.72	0.22																
1/9/2024		0.55	0.44	0.59	0.53	0.37	0.57		0.46						0.91	0.67		0.36		0.39								
1/10/2024																												
1/11/2024													0.49										0.35	0.73	0.67			
1/12/2024																												
1/13/2024																												
1/14/2024																												
1/15/2024											0.80	0.29																
1/16/2024			0.45	0.54	0.46										0.93	0.72												
1/17/2024																												
1/18/2024	0.57							0.69	0.69									0.53		0.53								
1/19/2024																												
1/20/2024																												
1/21/2024																												
1/22/2024																												
1/23/2024			0.62	0.35	0.59										0.84	0.73												
1/24/2024																												
1/25/2024																												
1/26/2024																												
1/27/2024																												
1/28/2024																												
1/29/2024																												
1/30/2024					0.59																							
1/31/2024																												
Average	0.56		0.52			0.54			0.58		0.51		0.52		0.80			0.45		0.46		0.58		0.49			0.42	
Min	0.55		0.35			0.37			0.46		0.22		0.49		0.67			0.36		0.39		0.58		0.35			0.42	
Max	0.57		0.62			0.69			0.69		0.80		0.54		0.93			0.53		0.53		0.58		0.73			0.42	



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. |
| 37. Hampton DPW, 950 Wagner Rd. | 46. John's Bar, 1476 S Tuscola Rd | 63. Master Meter Pit, 2865 Pinconning Rd | |
| 38. Bay County Golf Course, 584 W Hampton Rd. | 48. Tool Shed Bar, 12 W Munger Rd | 65. Ike's Welding, 50 N Finn Rd | |
| 39. Sewer Lift Station, 902 Nebobish Rd. | 49. Wilder Rd Party Store, 2951 E Wilder Rd | 68. Williams Township Hall, 1080 W Midland Rd | |
| 40. Bay Co. Road Commisison, 2600 E Beaver Rd | 52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd | 69. Pump Station, 490 W. Salzburg & 9 Mile Rd | |
| 41. Parish Rd. Elevated Tank, 1770 E. Parish Rd | 55. Auburn Fertilizer, 4640 S 7 Mile Rd | 70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd | |
| 42. Linwood Tile, 205 S Huron Rd | 58. Pinconning City Hall, 208 S Manitou St | 72. Lindy's Sales, 9051 M-25 | |

Distribution System Bacteriological							
Water Supplier Bacteriological Analysis Report							
MICHIGAN DEPARTMENT OF PUBLIC HEALTH Bureau of Environmental Health Water Supplier Bacteriological Analysis Report				Name of Water Supply			
				Bay Area Water Treatment Plant			
				January, 2024			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.29	1	1	0	0
BAY	Bangor Township	0390	0.59	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.89	3	3	0	0
BAY	Bay City	0470	0.71	30	38	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.74	9	10	0	0
BAY	Beaver Road Area	0517	0.81	1	1	0	0
BAY	Beaver Township	0518	0.40	2	2	0	0
BAY	Essexville	2180	0.85	4	4	0	0
BAY	Fraser Township	2465	0.56	2	2	0	0
BAY	Hampton Township	2960	0.52	10	10	0	0
BAY	Kawkawlin Township	3565	0.54	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.58	2	2	0	0
BAY	Linwood Metro Water District	3910	0.51	1	4	0	0
BAY	Merritt Township	4280	0.52	2	2	0	0
BAY	Monitor Township	4440	0.80	6	6	0	0
BAY	City of Pinconning	5330	0.45	2	2	0	0
BAY	Pinconning Township	5335	0.46	2	2	0	0
BAY	Portsmouth Township	5540	0.58	1	1	0	0
BAY	Williams Township	7125	0.49	6	6	0	0
Tuscola	Wisner	7134	0.42	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.58	mg/L			
1. Total distribution samples			110				
2. Total distribution samples with detectable free cl2 residual			110				
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%				

