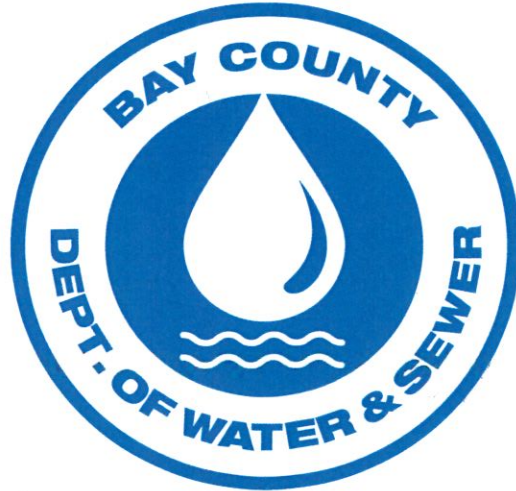


Bay Area WTP

Monthly Operations Report



May, 2024

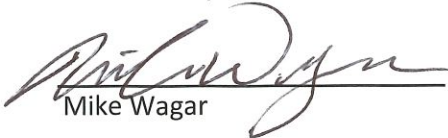
Water Systems Serial Number:

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

May, 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	17.4	Millions of Gallons per Day
Treatment Rate, Maximum	9.2	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	15.97	PSI
Maximum Approved Flux Rate	36.25	gpd/sq.ft.
Maximum Operating Flux Rate	30.06	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	3,713	Gallons	Estimated Supply:	56.7	days
Caustic Soda on hand:	1,273	Gallons	Estimated Supply:	87.2	days
Corrosion Inhibitor on hand:	495	Gallons	Estimated Supply:	21.0	days
Hydrofluosilicic Acid on hand:	650	Gallons	Estimated Supply:	35.8	days
Aluminum Chlorohydrate on hand:	491	Gallons	Estimated Supply:	91.9	days
Sulfuric Acid on hand:	454	Gallons	Estimated Supply:	226.8	days
Sodium Bisulfite on hand:	562	Gallons	Estimated Supply:	193.7	days
Citric Acid on hand:	844	Gallons	Estimated Supply:	67.5	days
Cost of All Chemicals per Million Gallons:	98.67	Dollars			

Utility Data

Estimated Electrical Kilo Watts per Million Gallons:	1,122.46	KW
Estimated Natural Gas Million Cubic Feet per Million Gallons:	10.59	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

Filter #1 out @ 10:45p on 5/3/24 for maint., Back in service @ 8:15a on 5/6/24
 Euclid Raw line opened 15% on 5/20
 Phosphate reading of 5/16/24 was abnormally low. Due to a chemical pump failure, chemical wasn't dosed for about 2 hours.
 The calculated Daily Value for PO4 on our tap recorded a 3.09 mg/L. Carl, called Bob to discuss.
 Talked with Bob on 5/17 around 1030 am. Bob was made aware of the issue and it was determined, that 3.09 rounds to 3.1 and that we were still in compliance. The pump has been fixed and our PO4 Daily Value is back to normal levels.

Bay Area WTP Monthly Operating Report

Flows									
Date	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
5/1/2024	0.00	5.94	5.94	0.20	0.10	6.60	3.13	2.71	5.84
5/2/2024	0.00	6.28	6.28	0.25	0.08	6.67	3.24	2.87	6.11
5/3/2024	0.00	6.46	6.46	0.23	0.08	6.48	3.06	2.69	5.74
5/4/2024	0.00	6.51	6.51	0.23	0.08	6.02	2.94	2.50	5.44
5/5/2024	0.00	6.30	6.30	0.24	0.08	6.63	3.14	2.80	5.94
5/6/2024	0.00	6.74	6.74	0.25	0.08	6.91	3.36	2.93	6.29
5/7/2024	0.00	7.54	7.54	0.26	0.08	7.29	3.48	3.05	6.53
5/8/2024	0.00	7.39	7.39	0.26	0.08	6.80	3.28	2.83	6.10
5/9/2024	0.00	6.42	6.42	0.24	0.09	6.96	3.45	2.89	6.34
5/10/2024	0.00	6.68	6.68	0.24	0.08	7.05	3.47	2.89	6.36
5/11/2024	0.00	7.31	7.31	0.27	0.08	6.56	3.24	2.67	5.91
5/12/2024	0.00	6.19	6.19	0.23	0.08	6.35	3.18	2.62	5.80
5/13/2024	0.00	6.92	6.92	0.26	0.08	7.34	3.56	2.97	6.53
5/14/2024	0.00	7.06	7.06	0.26	0.08	7.19	3.54	3.02	6.56
5/15/2024	0.00	7.68	7.68	0.28	0.08	7.55	3.73	3.14	6.87
5/16/2024	0.00	8.14	8.14	0.30	0.08	8.20	4.08	3.38	7.46
5/17/2024	0.00	8.18	8.18	0.28	0.08	7.94	4.02	3.29	7.31
5/18/2024	0.00	8.07	8.07	0.19	0.22	8.67	4.32	3.53	7.85
5/19/2024	0.00	8.62	8.62	0.29	0.13	9.19	4.62	3.78	8.40
5/20/2024	0.13	9.57	9.69	0.32	0.08	8.66	4.40	3.58	7.98
5/21/2024	0.22	8.99	9.21	0.28	0.08	7.85	3.92	3.16	7.09
5/22/2024	0.22	7.81	8.03	0.30	0.08	8.40	4.16	3.46	7.62
5/23/2024	0.22	7.94	8.16	0.30	0.08	8.85	4.36	3.60	7.96
5/24/2024	0.33	8.18	8.51	0.31	0.08	8.71	4.43	3.62	8.05
5/25/2024	0.44	8.17	8.61	0.28	0.08	8.23	4.12	3.37	7.49
5/26/2024	0.43	7.95	8.39	0.27	0.08	8.07	3.99	3.28	7.28
5/27/2024	0.40	6.63	7.02	0.25	0.08	7.65	3.85	3.14	6.99
5/28/2024	0.37	7.20	7.58	0.25	0.08	7.82	3.95	3.20	7.15
5/29/2024	0.37	7.83	8.20	0.25	0.13	8.16	4.13	3.35	7.49
5/30/2024	0.38	7.74	8.12	0.17	0.25	8.85	4.43	3.64	8.07
5/31/2024	0.35	8.79	9.14	0.29	0.14	8.49	4.28	3.48	7.76
Total	3.86	231.24	235.10	8.02	2.95	236.13	116.87	97.45	214.31
Avg	0.12	7.46	7.58	0.26	0.10	7.62	3.77	3.14	6.91
Min	0.00	5.94	5.94	0.17	0.08	6.02	2.94	2.50	5.44
Max	0.44	9.57	9.69	0.32	0.25	9.19	4.62	3.78	8.40

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	
5/1/2024	8.7	7.54	1.69	3.38	0.09	0.35	Negative	Negative
5/2/2024	8.8	7.67	1.19	1.37	0.09	0.39	Negative	Negative
5/3/2024	8.9	7.63	1.17	6.36	0.09	0.44	Negative	Negative
5/4/2024	8.8	7.67	1.15	1.41	0.09	0.44	Negative	Negative
5/5/2024	9.1	7.69	1.13	1.48	0.09	0.41	Negative	Negative
5/6/2024	9.4	7.69	0.94	10.00	0.09	0.34	Negative	Negative
5/7/2024	9.9	7.59	0.74	0.79	0.09	0.53	Negative	Negative
5/8/2024	10.1	7.63	0.71	0.75	0.09	0.40	Negative	Negative
5/9/2024	10.5	7.81	0.72	1.05	0.09	0.27	Negative	Negative
5/10/2024	10.7	7.76	0.73	0.77	0.09	0.38	Negative	Negative
5/11/2024	10.8	7.75	0.78	0.88	0.09	0.35	Negative	Negative
5/12/2024	10.9	7.71	0.86	0.96	0.09	0.47	Negative	Negative
5/13/2024	11.1	7.58	0.72	1.46	0.08	0.50	Negative	Negative
5/14/2024	10.8	7.75	0.66	0.70	0.08	0.58	Negative	Negative
5/15/2024	10.9	7.73	0.62	1.10	0.08	0.48	Negative	Negative
5/16/2024	11.2	7.77	0.65	0.72	0.09	0.35	Negative	Negative
5/17/2024	11.9	7.70	0.81	1.19	0.09	0.24	Negative	Negative
5/18/2024	12.3	7.60	0.74	0.87	0.09	0.43	Negative	Negative
5/19/2024	12.3	7.45	1.18	10.01	0.09	0.66	Negative	Negative
5/20/2024	12.0	7.51	0.78	3.76	0.09	0.67	Negative	Negative
5/21/2024	12.1	7.53	0.66	0.78	0.08	0.46	Negative	Negative
5/22/2024	12.3	7.69	0.62	1.90	0.08	0.38	Negative	Negative
5/23/2024	12.3	7.83	0.64	1.00	0.09	0.32	Negative	Negative
5/24/2024	12.6	7.69	0.67	0.74	0.09	0.24	Negative	Negative
5/25/2024	12.6	7.70	0.73	1.21	0.08	0.37	Negative	Negative
5/26/2024	13.2	7.82	0.72	0.95	0.09	0.26	Negative	Negative
5/27/2024	14.0	7.71	0.64	0.75	0.09	0.22	Negative	Negative
5/28/2024	14.9	7.60	0.70	0.76	0.09	0.24	Negative	Negative
5/29/2024	14.8	7.62	0.63	0.72	0.09	0.32	Negative	Negative
5/30/2024	14.0	7.76	0.59	1.69	0.09	0.32	Negative	Negative
5/31/2024	14.0	7.80	1.18	3.46	0.09	0.15	Negative	Negative
Avg	11.5	7.68	0.83	2.03	0.09	0.39	NA	NA
Min	8.7	7.45	0.59	0.70	0.08	0.15	NA	NA
Max	14.9	7.83	1.69	10.01	0.09	0.67	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				Positive/Negative		
	°C		mg/L	mg/L		mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	uS/cm				Calculated	Lab	
	AIT-4040-1	AIT-4050-2	AIT-4040-5	Lab		AIT-4050-1	Lab		Lab	Lab	Lab	Lab	Lab					Lab	
5/1/2024	8.1	7.52	3.35	0.68		1.01	0	76	11	11	78	11.9	219	-0.95	1.00	0.44	Negative	Negative	
5/2/2024	8.4	7.59	3.36	0.67		1.00	0	80	10	10	68	11.1	215	-0.91	1.00	0.38	Negative	Negative	
5/3/2024	8.6	7.58	3.36	0.68		1.02	0	81	10	10	70	11.3	213	-0.89	1.00	0.37	Negative	Negative	
5/4/2024	8.6	7.57	3.36	0.70		1.00	0	80	10	9	72	11.7	210	-0.89	1.11	0.36	Negative	Negative	
5/5/2024	8.7	7.56	3.36	0.71		1.00	0	79	10	11	70	11.6	210	-0.92	0.91	0.40	Negative	Negative	
5/6/2024	9.2	7.53	3.35	0.71	0.69	1.00	0	79	10	10	68	11.2	211	-0.95	1.00	0.38	Negative	Negative	
5/7/2024	9.6	7.52	3.35	0.70		1.00	0	80	9	11	76	11.1	212	-0.90	0.82	0.37	Negative	Negative	
5/8/2024	9.9	7.53	3.35	0.70		1.01	0	80	10	11	76	11.1	212	-0.88	0.91	0.39	Negative	Negative	
5/9/2024	10.1	7.62	3.35	0.70		0.98	0	73	10	11	76	11.5	216	-0.82	0.91	0.43	Negative	Negative	
5/10/2024	10.4	7.65	3.34	0.71		0.98	0	74	11	12	78	10.6	227	-0.78	0.92	0.47	Negative	Negative	
5/11/2024	10.5	7.65	3.34	0.71		1.00	0	79	12	11	80	11.0	220	-0.73	1.09	0.44	Negative	Negative	
5/12/2024	10.7	7.63	3.34	0.70		0.99	0	78	11	11	80	11.0	217	-0.75	1.00	0.43	Negative	Negative	
5/13/2024	11.2	7.57	3.35	0.69	0.70	1.02	0	72	11	11	78	10.6	215	-0.84	1.00	0.46	Negative	Negative	
5/14/2024	11.3	7.57	3.34	0.71		1.0	0	72	10	10	72	10.6	211	-0.87	1.00	0.42	Negative	Negative	
5/15/2024	11.2	7.56	3.34	0.67		1.02	0	78	12	12	82	10.4	252	-0.81	1.00	0.46	Negative	Negative	
5/16/2024	11.3	7.56	3.09	0.71		1.00	0	81	10	10	70	10.3	255	-0.86	1.00	0.37	Negative	Negative	
5/17/2024	11.7	7.52	3.30	0.71		1.00	0	82	10	10	68	10.3	260	-0.89	1.00	0.37	Negative	Negative	
5/18/2024	12.1	7.51	3.38	0.70		1.01	0	81	10	11	72	10.4	250	-0.88	0.91	0.39	Negative	Negative	
5/19/2024	12.3	7.47	3.38	0.71		1.04	0	83	11	10	70	11.0	253	-0.91	1.10	0.38	Negative	Negative	
5/20/2024	12.2	7.46	3.37	0.71	0.71	1.04	0	78	10	9	70	10.4	248	-0.95	1.11	0.37	Negative	Negative	
5/21/2024	12.2	7.49	3.36	0.71		1.01	0	78	10	10	70	10.7	247	-0.93	1.00	0.39	Negative	Negative	
5/22/2024	12.2	7.62	3.36	0.70		1.01	0	78	11	11	76	10.8	244	-0.76	1.00	0.43	Negative	Negative	
5/23/2024	12.3	7.66	3.35	0.70		1.00	0	77	10	12	76	10.6	254	-0.72	0.83	0.42	Negative	Negative	
5/24/2024	12.5	7.66	3.35	0.71		1.01	0	75	11	13	80	10.9	259	-0.71	0.85	0.48	Negative	Negative	
5/25/2024	12.6	7.67	3.34	0.71		1.00	0	80	11	11	80	10.4	262	-0.66	1.00	0.41	Negative	Negative	
5/26/2024	12.7	7.67	3.33	0.70		0.99	0	78	12	12	78	10.4	269	-0.68	1.00	0.46	Negative	Negative	
5/27/2024	13.2	7.67	3.33	0.70		0.99	0	83	13	11	78	10.1	273	-0.65	1.18	0.44	Negative	Negative	
5/28/2024	13.8	7.62	3.33	0.70		1.00	0	83	13	11	84	10.0	281	-0.65	1.18	0.44	Negative	Negative	
5/29/2024	14.3	7.63	3.33	0.70	0.69	1.03	0	84	13	14	84	9.9	285	-0.63	0.93	0.48	Negative	Negative	
5/30/2024	14.5	7.62	3.36	0.71		1.03	0	84	13	12	86	9.7	277	-0.62	1.08	0.45	Negative	Negative	
5/31/2024	14.5	7.60	3.34	0.71		1.02	0	82	12	12	76	9.8	275	-0.71	1.00	0.44	Negative	Negative	
Avg	11.3	7.58	3.34	0.70	0.70	1.01	0	79	11	11	76	10.7	240	-0.81	0.99	0.42	NA	NA	
Min	8.1	7.46	3.09	0.67	0.69	0.98	0	72	9	9	68	9.7	210	-0.95	0.82	0.36	NA	NA	
Max	14.5	7.67	3.38	0.71	0.71	1.04	0	84	13	14	86	11.9	285	-0.62	1.18	0.48	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
5/1/2024	1.69	3.38	1.58	0.91	0.029	0.030	96	0	0.0	0.025
5/2/2024	1.19	1.37	1.74	0.94	0.029	0.030	96	0	0.0	0.025
5/3/2024	1.17	6.36	1.52	0.91	0.029	0.030	96	0	0.0	0.025
5/4/2024	1.15	1.41	1.92	0.83	0.029	0.030	96	0	0.0	0.025
5/5/2024	1.13	1.48	2.18	0.88	0.029	0.030	96	0	0.0	0.025
5/6/2024	0.94	10.00	2.43	0.88	0.032	0.054	96	0	0.0	0.025
5/7/2024	0.74	0.79	2.64	0.75	0.033	0.046	96	0	0.0	0.026
5/8/2024	0.71	0.75	2.47	0.65	0.028	0.031	96	0	0.0	0.026
5/9/2024	0.72	1.05	3.01	0.61	0.029	0.030	96	0	0.0	0.026
5/10/2024	0.73	0.77	3.21	0.60	0.029	0.030	96	0	0.0	0.027
5/11/2024	0.78	0.88	2.68	0.62	0.028	0.028	96	0	0.0	0.026
5/12/2024	0.86	0.96	2.89	0.68	0.028	0.029	96	0	0.0	0.026
5/13/2024	0.72	1.46	1.84	0.66	0.028	0.029	96	0	0.0	0.026
5/14/2024	0.66	0.70	1.73	0.60	0.027	0.028	96	0	0.0	0.026
5/15/2024	0.62	1.10	1.97	0.54	0.027	0.028	96	0	0.0	0.026
5/16/2024	0.65	0.72	2.79	0.51	0.027	0.028	96	0	0.0	0.025
5/17/2024	0.81	1.19	2.47	0.56	0.027	0.029	96	0	0.0	0.026
5/18/2024	0.74	0.87	2.01	0.58	0.028	0.029	96	0	0.0	0.027
5/19/2024	1.18	10.01	2.14	0.76	0.026	0.027	96	0	0.0	0.026
5/20/2024	0.78	3.76	1.90	0.73	0.026	0.027	96	0	0.0	0.025
5/21/2024	0.66	0.78	1.47	0.55	0.026	0.027	96	0	0.0	0.025
5/22/2024	0.62	1.90	1.43	0.46	0.026	0.026	96	0	0.0	0.025
5/23/2024	0.64	1.00	1.95	0.45	0.026	0.028	96	0	0.0	0.025
5/24/2024	0.67	0.74	2.15	0.45	0.027	0.028	96	0	0.0	0.025
5/25/2024	0.73	1.21	2.40	0.46	0.026	0.028	96	0	0.0	0.026
5/26/2024	0.72	0.95	3.06	0.51	0.027	0.028	96	0	0.0	0.026
5/27/2024	0.64	0.75	3.07	0.47	0.028	0.028	96	0	0.0	0.026
5/28/2024	0.70	0.76	3.11	0.48	0.028	0.030	96	0	0.0	0.026
5/29/2024	0.63	0.72	3.98	0.48	0.028	0.029	96	0	0.0	0.027
5/30/2024	0.59	1.69	2.54	0.42	0.028	0.029	96	0	0.0	0.026
5/31/2024	1.18	3.46	3.92	0.66	0.028	0.029	96	0	0.0	0.026
Avg	0.83	2.03	2.39	0.63	0.028	0.030	96	0	0.0	0.026
Min	0.59	0.70	1.43	0.42	0.026	0.026	96	0	0.0	0.025
Max	1.69	10.01	3.98	0.94	0.033	0.054	96	0	0.0	0.027

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	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	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	Daily Value	Pass/Fail	NTU
5/1/2024	4.11	PASS	0.021	5.39	PASS	0.025	5.49	PASS	0.036	4.30	PASS	0.035	5.52	PASS	0.027	4.21	PASS	0.027	4.26	PASS	0.026	5.63	PASS	0.026		
5/2/2024	4.11	PASS	0.020	5.42	PASS	0.030	5.49	PASS	0.040	4.24	PASS	0.030	5.52	PASS	0.028	4.21	PASS	0.027	4.26	PASS	0.026	5.62	PASS	0.025		
5/3/2024	4.11	PASS	0.100	5.37	PASS	0.030	5.50	PASS	0.030	4.26	PASS	0.028	5.55	PASS	0.026	4.22	PASS	0.027	4.27	PASS	0.026	5.58	PASS	0.025		
5/4/2024	Out for maintenance.			5.34	PASS	0.029	5.52	PASS	0.028	4.32	PASS	0.028	5.49	PASS	0.026	4.23	PASS	0.027	4.28	PASS	0.026	5.54	PASS	0.025		
5/5/2024	Out for maintenance.			5.33	PASS	0.030	5.47	PASS	0.028	4.35	PASS	0.028	5.51	PASS	0.026	4.22	PASS	0.026	4.27	PASS	0.026	5.57	PASS	0.026		
5/6/2024	4.06	PASS	0.093	5.37	PASS	0.032	5.45	PASS	0.029	4.32	PASS	0.028	5.52	PASS	0.028	4.20	PASS	0.028	4.23	PASS	0.027	5.56	PASS	0.026		
5/7/2024	4.05	PASS	0.048	5.36	PASS	0.031	5.46	PASS	0.029	4.28	PASS	0.028	5.51	PASS	0.027	4.22	PASS	0.028	4.24	PASS	0.027	5.63	PASS	0.027		
5/8/2024	4.12	PASS	0.041	5.37	PASS	0.031	5.48	PASS	0.029	4.27	PASS	0.028	5.51	PASS	0.027	4.22	PASS	0.028	4.23	PASS	0.027	5.57	PASS	0.030		
5/9/2024	4.10	PASS	0.053	5.38	PASS	0.032	5.49	PASS	0.030	4.30	PASS	0.029	5.52	PASS	0.028	4.23	PASS	0.028	4.27	PASS	0.028	5.59	PASS	0.028		
5/10/2024	4.10	PASS	0.056	5.39	PASS	0.033	5.47	PASS	0.029	4.31	PASS	0.029	5.48	PASS	0.029	4.21	PASS	0.029	4.25	PASS	0.028	5.56	PASS	0.028		
5/11/2024	4.10	PASS	0.058	5.37	PASS	0.033	5.46	PASS	0.028	4.27	PASS	0.029	5.52	PASS	0.028	4.22	PASS	0.028	4.26	PASS	0.027	5.64	PASS	0.027		
5/12/2024	4.10	PASS	0.043	5.34	PASS	0.033	5.49	PASS	0.029	4.31	PASS	0.028	5.50	PASS	0.029	4.23	PASS	0.028	4.23	PASS	0.027	5.61	PASS	0.028		
5/13/2024	4.11	PASS	0.051	5.35	PASS	0.031	5.48	PASS	0.028	4.31	PASS	0.028	5.51	PASS	0.027	4.25	PASS	0.029	4.24	PASS	0.027	5.62	PASS	0.027		
5/14/2024	4.10	PASS	0.055	5.36	PASS	0.030	5.49	PASS	0.028	4.31	PASS	0.027	5.53	PASS	0.027	4.24	PASS	0.027	4.29	PASS	0.027	5.54	PASS	0.026		
5/15/2024	4.10	PASS	0.049	5.38	PASS	0.029	5.49	PASS	0.028	4.34	PASS	0.027	5.51	PASS	0.026	4.24	PASS	0.027	4.28	PASS	0.026	5.58	PASS	0.026		
5/16/2024	4.09	PASS	0.051	5.37	PASS	0.030	5.49	PASS	0.028	4.26	PASS	0.027	5.50	PASS	0.027	4.23	PASS	0.027	4.24	PASS	0.027	5.58	PASS	0.026		
5/17/2024	4.07	PASS	0.046	5.35	PASS	0.031	5.50	PASS	0.029	4.30	PASS	0.028	5.50	PASS	0.028	4.21	PASS	0.029	4.24	PASS	0.028	5.62	PASS	0.027		
5/18/2024	4.05	PASS	0.057	5.35	PASS	0.031	5.49	PASS	0.030	4.32	PASS	0.028	5.51	PASS	0.028	4.18	PASS	0.029	4.22	PASS	0.028	5.58	PASS	0.027		
5/19/2024	4.08	PASS	0.057	5.38	PASS	0.030	5.47	PASS	0.029	4.32	PASS	0.027	5.52	PASS	0.027	4.18	PASS	0.028	4.25	PASS	0.027	5.65	PASS	0.027		
5/20/2024	4.07	PASS	0.042	5.34	PASS	0.029	5.49	PASS	0.027	4.32	PASS	0.026	5.51	PASS	0.026	4.22	PASS	0.026	4.24	PASS	0.025	5.54	PASS	0.025		
5/21/2024	4.07	PASS	0.045	5.39	PASS	0.029	5.48	PASS	0.027	4.37	PASS	0.026	5.52	PASS	0.026	4.22	PASS	0.026	4.25	PASS	0.025	5.55	PASS	0.025		
5/22/2024	4.08	PASS	0.044	5.36	PASS	0.030	5.47	PASS	0.028	4.52	PASS	0.026	5.56	PASS	0.026	4.19	PASS	0.027	4.24	PASS	0.025	5.66	PASS	0.025		
5/23/2024	4.12	PASS	0.066	5.37	PASS	0.029	5.48	PASS	0.028	4.45	PASS	0.026	5.52	PASS	0.027	4.21	PASS	0.027	4.21	PASS	0.026	5.58	PASS	0.026		
5/24/2024	4.23	PASS	0.049	5.36	PASS	0.030	5.49	PASS	0.028	4.44	PASS	0.027	5.50	PASS	0.027	4.34	PASS	0.031	4.26	PASS	0.027	5.55	PASS	0.027		
5/25/2024	4.22	PASS	0.050	5.35	PASS	0.029	5.48	PASS	0.028	4.42	PASS	0.027	5.43	PASS	0.028	4.30	PASS	0.027	4.20	PASS	0.026	5.55	PASS	0.026		
5/26/2024	4.20	PASS	0.054	5.29	PASS	0.030	5.47	PASS	0.028	4.45	PASS	0.027	5.42	PASS	0.027	4.28	PASS	0.028	4.18	PASS	0.027	5.51	PASS	0.027		
5/27/2024	4.19	PASS	0.049	5.33	PASS	0.030	5.46	PASS	0.028	4.30	PASS	0.027	5.51	PASS	0.027	4.25	PASS	0.029	4.18	PASS	0.027	5.51	PASS	0.027		
5/28/2024	4.19	PASS	0.050	5.31	PASS	0.031	5.48	PASS	0.029	4.29	PASS	0.028	5.55	PASS	0.028	4.26	PASS	0.029	4.23	PASS	0.028	5.50	PASS	0.027		
5/29/2024	4.18	PASS	0.032	5.27	PASS	0.032	5.47	PASS	0.029	4.38	PASS	0.028	5.45	PASS	0.029	4.21	PASS	0.029	4.14	PASS	0.027	5.50	PASS	0.028		
5/30/2024	4.16	PASS	0.028	5.29	PASS	0.031	5.57	PASS	0.028	4.40	PASS	0.028	5.48	PASS	0.027	4.22	PASS	0.029	4.18	PASS	0.027	5.51	PASS	0.027		
5/31/2024	4.13	PASS	0.028	5.36	PASS	0.030	5.56	PASS	0.028	4.43	PASS	0.028	5.53	PASS	0.027	4.33	PASS	0.029	4.20	PASS	0.027	5.52	PASS	0.027		
Avg	4.12		0.050	5.35		0.030	5.49		0.029	4.34		0.028	5.51		0.027	4.23		0.028	4.24		0.027	5.57		0.027		
Min	4.05		0.020	5.27		0.025	5.45		0.027	4.24		0.026	5.42		0.026	4.18		0.026	4.14		0.025	5.50		0.025		
Max	4.23		0.100	5.42		0.033	5.57		0.040	4.52		0.035	5.56		0.029	4.34		0.031	4.29		0.028	5.66		0.030		

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	1/2023	8/2015	Skid 6
Skid 7	8/2015	1/2023	Skid 8

Treatment Chemical Dosages											
Date	Treated Water	Sodium Hypochlorite					Phosphoric Acid		Hydroflourosillic 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
5/1/2024	6.6	0.35	0.23	0.92	1.08	1.01	3.26	3.35	0.09	0.52	0.68
5/2/2024	6.7	0.39	0.24	0.92	1.09	1.00	3.26	3.36	0.09	0.52	0.67
5/3/2024	6.5	0.44	0.28	0.87	1.09	1.02	3.26	3.36	0.09	0.54	0.68
5/4/2024	6.0	0.44	0.29	0.85	1.07	1.00	3.26	3.36	0.09	0.55	0.70
5/5/2024	6.6	0.41	0.30	0.85	1.09	1.00	3.26	3.36	0.09	0.55	0.71
5/6/2024	6.9	0.34	0.29	0.90	1.07	1.00	3.26	3.35	0.09	0.55	0.71
5/7/2024	7.3	0.53	0.32	0.86	1.10	1.00	3.25	3.35	0.09	0.55	0.70
5/8/2024	6.8	0.40	0.34	0.84	1.09	1.01	3.25	3.35	0.09	0.55	0.70
5/9/2024	7.0	0.27	0.27	0.96	1.07	0.98	3.25	3.35	0.09	0.55	0.70
5/10/2024	7.0	0.38	0.23	0.92	1.08	0.98	3.25	3.34	0.09	0.55	0.71
5/11/2024	6.6	0.35	0.26	0.94	1.09	1.00	3.25	3.34	0.09	0.55	0.71
5/12/2024	6.4	0.47	0.26	0.98	1.12	0.99	3.25	3.34	0.09	0.55	0.70
5/13/2024	7.3	0.50	0.31	0.86	1.12	1.02	3.25	3.35	0.08	0.55	0.69
5/14/2024	7.2	0.58	0.37	0.80	1.11	1.02	3.25	3.34	0.08	0.55	0.71
5/15/2024	7.6	0.48	0.40	0.78	1.10	1.02	3.25	3.34	0.08	0.55	0.67
5/16/2024	8.2	0.35	0.34	0.84	1.07	1.00	3.29	3.09	0.09	0.55	0.71
5/17/2024	7.9	0.24	0.24	1.00	1.08	1.00	3.26	3.30	0.09	0.55	0.71
5/18/2024	8.7	0.43	0.22	0.96	1.12	1.01	3.25	3.38	0.09	0.55	0.70
5/19/2024	9.2	0.66	0.39	0.74	1.12	1.04	3.25	3.38	0.09	0.55	0.71
5/20/2024	8.7	0.67	0.51	0.63	1.11	1.04	3.25	3.37	0.09	0.55	0.71
5/21/2024	7.8	0.46	0.45	0.76	1.08	1.01	3.25	3.36	0.08	0.55	0.71
5/22/2024	8.4	0.38	0.36	0.86	1.08	1.01	3.25	3.36	0.08	0.55	0.70
5/23/2024	8.9	0.32	0.27	0.92	1.09	1.00	3.25	3.35	0.09	0.55	0.70
5/24/2024	8.7	0.24	0.22	0.96	1.10	1.01	3.25	3.35	0.09	0.55	0.71
5/25/2024	8.2	0.37	0.23	0.92	1.11	1.00	3.25	3.34	0.08	0.54	0.71
5/26/2024	8.1	0.26	0.20	0.98	1.10	0.99	3.25	3.33	0.09	0.54	0.70
5/27/2024	7.7	0.22	0.16	1.04	1.11	0.99	3.25	3.33	0.09	0.54	0.70
5/28/2024	7.8	0.24	0.14	1.08	1.13	1.00	3.25	3.33	0.09	0.54	0.70
5/29/2024	8.2	0.32	0.18	1.02	1.16	1.03	3.26	3.33	0.09	0.54	0.70
5/30/2024	8.8	0.32	0.21	0.98	1.13	1.03	3.27	3.36	0.09	0.54	0.71
5/31/2024	8.5	0.15	0.15	1.12	1.13	1.02	3.28	3.34	0.09	0.54	0.71
Avg	7.6	0.39	0.28	0.91	1.10	1.01	3.26	3.34	0.09	0.55	0.70
Min	6.0	0.15	0.14	0.63	1.07	0.98	3.25	3.09	0.08	0.52	0.67
Max	9.2	0.67	0.51	1.12	1.16	1.04	3.29	3.38	0.09	0.55	0.71

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
5/1/2024	41.9	2,985	0.35	1043	28.7	23.7	5.8	614	0.98	302	1345	8.7	8.00	Y
5/2/2024	41.1	3,042	0.39	1198	28.7	24.5	6.1	597	0.98	292	1489	8.8	8.00	Y
5/3/2024	43.0	2,907	0.44	1282	28.6	24.9	5.7	638	0.96	308	1590	8.9	8.00	Y
5/4/2024	53.9	2,322	0.44	1028	28.6	25.5	5.4	682	0.97	331	1359	8.8	8.00	Y
5/5/2024	54.5	2,296	0.41	936	28.6	24.8	5.9	617	0.96	297	1233	9.1	8.00	Y
5/6/2024	49.8	2,514	0.34	853	28.6	24.4	6.3	578	0.94	273	1126	9.4	8.00	Y
5/7/2024	43.7	2,861	0.53	1503	28.7	24.4	6.5	558	0.92	257	1760	9.9	8.00	Y
5/8/2024	42.9	2,918	0.40	1153	28.6	25.2	6.1	604	0.96	291	1444	10.1	6.00	Y
5/9/2024	41.5	3,011	0.27	809	28.7	25.5	6.3	585	0.94	276	1085	10.5	6.00	Y
5/10/2024	40.0	3,131	0.38	1178	28.7	25.1	6.4	579	0.94	273	1451	10.7	6.00	Y
5/11/2024	50.7	2,467	0.35	856	28.6	26.0	5.9	633	0.94	297	1152	10.8	6.00	Y
5/12/2024	53.1	2,357	0.47	1103	28.6	24.1	5.8	623	0.92	288	1391	10.9	6.00	Y
5/13/2024	53.7	2,331	0.50	1175	28.7	24.3	6.5	555	0.99	274	1448	11.1	6.00	Y
5/14/2024	48.9	2,556	0.58	1474	28.7	25.1	6.6	562	0.98	275	1749	10.8	6.00	Y
5/15/2024	45.5	2,750	0.48	1331	28.7	25.2	6.9	538	0.96	259	1590	10.9	6.00	Y
5/16/2024	41.8	2,990	0.35	1047	28.7	23.0	7.5	475	0.96	227	1274	11.2	6.00	Y
5/17/2024	47.4	2,639	0.24	628	28.7	23.5	7.3	489	0.95	233	860	11.9	6.00	Y
5/18/2024	58.7	2,133	0.43	922	28.6	23.9	7.8	458	0.98	224	1146	12.3	6.00	Y
5/19/2024	61.9	2,022	0.66	1328	28.8	22.7	8.4	420	1.02	214	1542	12.3	6.00	Y
5/20/2024	62.6	1,999	0.67	1346	28.7	23.1	8.0	445	1.01	224	1570	12.0	6.00	Y
5/21/2024	56.7	2,205	0.46	1013	28.8	23.2	7.1	502	1.00	251	1263	12.1	6.00	Y
5/22/2024	50.5	2,477	0.38	930	28.8	23.9	7.6	474	0.96	228	1159	12.3	6.00	Y
5/23/2024	49.2	2,540	0.32	823	28.7	17.7	8.0	400	0.96	191	1015	12.3	6.00	Y
5/24/2024	52.8	2,368	0.24	559	28.7	24.4	8.0	452	0.94	212	771	12.6	6.00	Y
5/25/2024	61.4	2,039	0.37	751	28.8	24.8	7.5	490	0.97	238	989	12.6	6.00	Y
5/26/2024	62.1	2,015	0.26	517	28.7	25.7	7.3	513	0.94	240	757	13.2	6.00	Y
5/27/2024	58.8	2,129	0.22	477	28.7	25.9	7.0	536	0.95	255	732	14.0	6.00	Y
5/28/2024	50.7	2,465	0.24	601	28.7	25.4	7.1	519	0.96	250	851	14.9	6.00	Y
5/29/2024	46.9	2,666	0.32	843	28.8	23.9	7.5	482	0.98	236	1079	14.8	6.00	Y
5/30/2024	45.9	2,727	0.32	883	28.8	23.7	8.1	446	1.01	224	1107	14.0	6.00	Y
5/31/2024	51.2	2,445	0.15	375	28.8	25.5	7.8	479	1.01	241	616	14.0	6.00	Y
Avg	50.4	2,526	0.39	967	28.7	24.3	6.9	534	0.97	257	1224	11.5	6.45	NA
Min	40.0	1,999	0.15	375	28.6	17.7	5.4	400	0.92	191	616	8.7	6.00	NA
Max	62.6	3,131	0.67	1503	28.8	26.0	8.4	682	1.02	331	1760	14.9	8.00	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		
Date	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City							Bay County				Beaver Rd	Beaver Twp		Essexville		
	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30		
5/1/2024									0.79	0.55	0.73	0.83	0.42	0.97	0.70										0.64
5/2/2024						0.59																			
5/3/2024																									
5/4/2024																									
5/5/2024																									
5/6/2024																									
5/7/2024	0.32	0.67	0.46	0.48	0.90				0.84	0.54	0.80	0.87	0.37	0.96	0.68	0.65	0.53	0.64	0.62	0.43			0.42		0.78
5/8/2024																									
5/9/2024								0.92	0.81	0.59	0.65	0.85	0.40	0.94	0.71						0.85				
5/10/2024																									
5/11/2024																									
5/12/2024																									
5/13/2024																									
5/14/2024		0.53	0.41													0.30	0.32	0.44	0.55	0.48			0.50		0.76
5/15/2024									0.81	0.44	0.63	0.83	0.48	0.92	0.70										
5/16/2024																									
5/17/2024																									
5/18/2024																									
5/19/2024																									
5/20/2024																									
5/21/2024		0.53	0.29	0.43	0.95																				0.81
5/22/2024									0.77	0.59	0.63	0.84	0.47	0.95	0.76										
5/23/2024						0.83																			
5/24/2024																									
5/25/2024																									
5/26/2024																									
5/27/2024																									
5/28/2024																									
5/29/2024																									
5/30/2024																									
5/31/2024																									
Average	0.32	0.57				0.78			0.71							0.50				0.85	0.46		0.75		
Min	0.32	0.29				0.59			0.37							0.30				0.85	0.42		0.64		
Max	0.32	0.95				0.92			0.97							0.65				0.85	0.50		0.81		

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 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	
5/1/2024																												
5/2/2024		0.77	0.68	0.39	0.30	0.38	0.87	0.43		0.69			0.76				0.68	0.53	0.48	0.59		0.61						
5/3/2024																												
5/4/2024																												
5/5/2024																												
5/6/2024																												
5/7/2024														0.32										Closed	0.59	0.72	0.52	0.30
5/8/2024																												
5/9/2024	0.52			0.36	0.63	0.39			0.81	0.64						0.86	0.62	0.61	0.64		0.51							
5/10/2024																												
5/11/2024																												
5/12/2024																												
5/13/2024																												
5/14/2024														0.38											0.51	0.64	0.50	
5/15/2024																												
5/16/2024				0.36	0.38	0.39										0.90	0.68											
5/17/2024																												
5/18/2024																												
5/19/2024																												
5/20/2024																												
5/21/2024																												
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5/26/2024																												
5/27/2024																												
5/28/2024																												
5/29/2024																												
5/30/2024																												
5/31/2024																												
Average	0.65			0.43			0.70			0.67		0.76		0.35		0.67		0.62		0.56		0.58		0.58		0.30		
Min	0.52			0.30			0.43			0.64		0.76		0.32		0.48		0.59		0.51		0.58		0.50		0.30		
Max	0.77			0.68			0.87			0.69		0.76		0.38		0.90		0.64		0.61		0.58		0.72		0.30		

MONITORING STATION ADDRESSES

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

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			
				May, 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	0.32	1	1	0	0
BAY	Bangor Township	0390	0.57	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.78	3	3	0	0
BAY	Bay City	0470	0.71	30	35	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.50	9	10	0	0
BAY	Beaver Road Area	0517	0.85	1	1	0	0
BAY	Beaver Township	0518	0.46	2	2	0	0
BAY	Essexville	2180	0.75	4	4	0	0
BAY	Fraser Township	2465	0.65	2	2	0	0
BAY	Hampton Township	2960	0.43	10	10	0	0
BAY	Kawkawlin Township	3565	0.70	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.67	2	2	0	0
BAY	Linwood Metro Water District	3910	0.76	1	1	0	0
BAY	Merritt Township	4280	0.35	2	2	0	0
BAY	Monitor Township	4440	0.67	6	8	0	0
BAY	City of Pinconning	5330	0.62	2	2	0	0
BAY	Pinconning Township	5335	0.56	2	2	0	0
BAY	Portsmouth Township	5540	0.58	1	1	0	0
BAY	Williams Township	7125	0.58	6	6	0	0
Tuscola	Wisner	7134	0.30	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.59	mg/L			
1. Total distribution samples			106				
2. Total distribution samples with detectable free cl2 residual			106				
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%				