

# Bay Area WTP

## Monthly Operations Report



July, 2021

Water Systems Serial Number: 0465

Ryan Goebel  
Ryan Goebel

Water Plant Superintendent  
Title

F-1  
Classification

Mike Wagar  
Mike Wagar

Operations Supervisor  
Title

F-2  
Classification

# Bay Area Water Treatment Plant

## Monthly Operations Report

Supply Name: Bay Area Water System  
 WSSN: 0465

Ryan Goebel  
 Operator-in-charge

July, 2021  
 Month, Year

F-1  
 Certification of Operator-in-charge

F-1  
 Water Plant Classification

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>10.9</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>15.05</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>29.71</u>	gpd/sq.ft.

### Chemical Data

Sodium Hypochlorite on hand:	<u>5,549</u>	Gallons	Estimated Supply:	<u>50.9</u>	days
Caustic Soda on hand:	<u>2,660</u>	Gallons	Estimated Supply:	<u>161.5</u>	days
Corrosion Inhibitor on hand:	<u>1,028</u>	Gallons	Estimated Supply:	<u>36.3</u>	days
Hydrofluosilicic Acid on hand:	<u>1,354</u>	Gallons	Estimated Supply:	<u>51.2</u>	days
Aluminum Chlorohydrate on hand:	<u>611</u>	Gallons	Estimated Supply:	<u>32.1</u>	days
Sulfuric Acid on hand:	<u>311</u>	Gallons	Estimated Supply:	<u>99.8</u>	days
Sodium Bisulfite on hand:	<u>630</u>	Gallons	Estimated Supply:	<u>159.6</u>	days
Citric Acid on hand:	<u>727</u>	Gallons	Estimated Supply:	<u>56.9</u>	days
Cost of All Chemicals per Million Gallons:	<u>70.04</u>	Dollars			
Estimated Electrical Cost per Million Gallons:	<u>71.29</u>	Dollars			
Estimated Natural Gas Cost per Million Gallons:	<u>2.1</u>	Dollars			

### 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

On 7/9, 7/10, 7/11 and 7/19 our D.O. probe was not working. A new probe was put in service on the 23rd.

# Bay Area WTP Monthly Operating Report

Flows									
Date	Raw Water (MG)			Clarified (MG)	Sludge (MG)	Treated (MG)	Finished Water Pumped (MG)		
	North	South	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
7/1/2021	3.75	5.68	9.43	0.33	0.04	9.06	4.71	4.14	8.84
7/2/2021	3.88	5.21	9.09	0.33	0.04	9.76	5.02	4.43	9.44
7/3/2021	4.16	5.30	9.46	0.30	0.07	9.49	4.89	4.31	9.20
7/4/2021	4.14	5.99	10.13	0.17	0.25	9.45	4.97	4.37	9.34
7/5/2021	4.09	6.21	10.30	0.19	0.22	10.92	5.66	5.01	10.67
7/6/2021	5.11	6.15	11.26	0.28	0.12	10.40	5.30	4.83	10.13
7/7/2021	4.36	4.53	8.89	0.29	0.07	8.26	4.27	3.77	8.05
7/8/2021	3.41	4.07	7.49	0.26	0.08	7.37	3.85	3.36	7.22
7/9/2021	4.63	4.85	9.48	0.31	0.08	9.15	4.74	4.18	8.92
7/10/2021	3.54	4.40	7.94	0.27	0.08	8.59	4.48	3.92	8.40
7/11/2021	3.94	4.47	8.41	0.29	0.09	8.56	4.42	3.87	8.29
7/12/2021	4.30	5.18	9.48	0.31	0.08	9.21	4.80	4.22	9.02
7/13/2021	4.45	4.26	8.71	0.27	0.08	8.03	4.21	3.66	7.88
7/14/2021	2.76	5.73	8.50	0.31	0.08	8.96	4.61	4.00	8.61
7/15/2021	2.74	6.45	9.19	0.28	0.08	8.68	4.46	3.89	8.34
7/16/2021	2.88	4.55	7.43	0.26	0.07	8.13	4.30	3.75	8.06
7/17/2021	3.34	4.98	8.31	0.21	0.16	8.65	4.43	3.86	8.28
7/18/2021	3.90	5.59	9.49	0.15	0.25	8.76	4.61	4.04	8.64
7/19/2021	4.47	5.08	9.55	0.22	0.19	9.87	5.13	4.52	9.65
7/20/2021	4.50	5.05	9.55	0.32	0.08	9.43	4.90	4.30	9.20
7/21/2021	4.55	6.11	10.65	0.30	0.09	10.10	5.25	4.63	9.88
7/22/2021	4.58	5.11	9.68	0.32	0.09	9.39	4.85	4.26	9.11
7/23/2021	4.38	4.75	9.14	0.31	0.08	9.60	4.99	4.39	9.39
7/24/2021	4.00	4.71	8.71	0.28	0.09	7.75	4.07	3.53	7.61
7/25/2021	2.96	4.08	7.04	0.27	0.09	8.61	4.41	3.86	8.27
7/26/2021	4.92	6.06	10.98	0.29	0.08	9.31	4.88	4.28	9.16
7/27/2021	3.70	4.86	8.56	0.30	0.09	8.97	4.67	4.10	8.78
7/28/2021	3.97	5.37	9.34	0.30	0.09	9.72	5.02	4.43	9.46
7/29/2021	3.96	5.49	9.45	0.26	0.09	9.24	4.72	4.15	8.88
7/30/2021	3.99	5.29	9.28	0.32	0.08	9.19	4.79	4.23	9.02
7/31/2021	4.54	3.96	8.50	0.24	0.14	8.86	4.60	4.03	8.63
Total	123.89	159.52	283.41	8.53	3.24	281.48	146.03	128.35	274.38
Avg	4.00	5.15	9.14	0.28	0.10	9.08	4.71	4.14	8.85
Min	2.74	3.96	7.04	0.15	0.04	7.37	3.85	3.36	7.22
Max	5.11	6.45	11.26	0.33	0.25	10.92	5.66	5.01	10.67



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	
7/1/2021	15.0	8.02	0.25	0.31	0.09	0.53	Negative	Negative
7/2/2021	14.9	8.02	0.45	3.39	0.08	0.49	Negative	Negative
7/3/2021	15.7	8.13	0.60	1.17	0.09	0.24	Negative	Negative
7/4/2021	16.4	8.10	0.58	1.33	0.09	0.22	Negative	Negative
7/5/2021	16.8	8.09	0.47	0.79	0.09	0.24	Negative	Negative
7/6/2021	17.2	8.03	0.30	0.57	0.09	0.42	Negative	Negative
7/7/2021	17.3	8.05	0.36	2.60	0.09	0.34	Negative	Negative
7/8/2021	17.3	8.06	0.30	0.86	0.08	0.30	Negative	Negative
7/9/2021	17.7	8.04	0.69	3.04	0.09	0.22	Negative	Negative
7/10/2021	17.9	8.01	0.58	1.54	0.08	0.27	Negative	Negative
7/11/2021	18.1	7.97	0.54	1.48	0.08	0.29	Negative	Negative
7/12/2021	18.2	7.96	0.41	0.87	0.08	0.41	Negative	Negative
7/13/2021	18.5	8.04	0.57	1.25	0.09	0.25	Negative	Negative
7/14/2021	18.7	8.06	0.59	1.01	0.09	0.21	Negative	Negative
7/15/2021	18.9	8.11	0.54	0.97	0.09	0.20	Negative	Negative
7/16/2021	19.0	8.05	0.56	2.48	0.09	0.22	Negative	Negative
7/17/2021	19.1	8.02	0.77	1.18	0.09	0.25	Negative	Negative
7/18/2021	19.3	8.03	0.60	0.88	0.09	0.34	Negative	Negative
7/19/2021	19.5	8.05	0.52	1.77	0.09	0.32	Negative	Negative
7/20/2021	19.6	8.08	0.34	1.00	0.09	0.31	Negative	Negative
7/21/2021	19.5	8.08	0.47	1.84	0.09	0.31	Negative	Negative
7/22/2021	19.6	8.10	0.65	3.21	0.09	0.29	Negative	Negative
7/23/2021	19.8	8.03	0.57	2.27	0.10	0.35	Negative	Negative
7/24/2021	19.9	7.92	0.65	1.80	0.09	0.43	Negative	Negative
7/25/2021	19.8	7.88	0.57	1.79	0.09	0.34	Negative	Negative
7/26/2021	19.9	7.80	0.47	1.06	0.08	0.41	Negative	Negative
7/27/2021	20.0	7.79	0.43	1.99	0.07	0.41	Negative	Negative
7/28/2021	20.1	7.82	0.51	1.67	0.08	0.39	Negative	Negative
7/29/2021	20.3	7.88	0.50	0.74	0.09	0.29	Negative	Negative
7/30/2021	20.4	7.89	0.48	0.64	0.09	0.23	Negative	Negative
7/31/2021	20.6	7.95	0.69	2.09	0.09	0.22	Negative	Negative
Avg	18.5	8.00	0.52	1.54	0.09	0.31	NA	NA
Min	14.9	7.79	0.25	0.31	0.07	0.20	NA	NA
Max	20.6	8.13	0.77	3.39	0.10	0.53	NA	NA



Finished Water Analysis																		
Date	Temp	pH	Phosphate	Fluoride		Free Cl <sub>2</sub>	Alkalinity (as CaCO <sub>3</sub> )		Chloride	Sulfate	Calcium (as CaCO <sub>3</sub> )	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	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	
7/1/2021	10.5	7.74	3.36	0.79		1.23	0	79	10	8	72	11.5	223	-1.56	9.00	1.72	Negative	Negative
7/2/2021	11.2	7.75	3.36	0.76		1.21	0	79	11	8	72	12.1	224	-1.50	9.00	1.72	Negative	Negative
7/3/2021	12.7	7.77	3.36	0.77		1.19	0	82	11	9	72	10.8	235	-1.42	8.00	1.67	Negative	Negative
7/4/2021	14.7	7.77	3.37	0.77		1.18	0	82	12	9	74	10.7	242	-1.32	8.22	1.71	Negative	Negative
7/5/2021	15.7	7.77	3.37	0.77		1.20	0	83	12	10	74	9.7	247	-1.29	7.40	1.71	Negative	Negative
7/6/2021	16.4	7.75	3.37	0.77	0.76	1.22	0	82	12	10	72	10.7	241	-1.32	7.20	1.69	Negative	Negative
7/7/2021	16.2	7.75	3.35	0.77		1.19	0	82	11	8	76	10.4	238	-1.36	9.50	1.74	Negative	Negative
7/8/2021	16.1	7.75	3.30	0.77		1.18	0	84	9	10	70	10.5	238	-1.41	7.00	1.60	Negative	Negative
7/9/2021	16.3	7.75	3.36	0.77		1.20	0	82	10	9	72	*	242	-1.38	8.00	1.67	Negative	Negative
7/10/2021	17.0	7.73	3.37	0.77		1.20	0	82	11	10	72	*	243	-1.35	7.20	1.69	Negative	Negative
7/11/2021	17.4	7.72	3.36	0.76		1.19	0	84	11	10	70	*	242	-1.33	7.00	1.60	Negative	Negative
7/12/2021	17.8	7.71	3.38	0.77	0.78	1.21	0	81	12	10	68	6.5	243	-1.32	6.80	1.62	Negative	Negative
7/13/2021	18.0	7.69	3.41	0.78		1.18	0	82	12	11	72	7.1	245	-1.32	6.55	1.70	Negative	Negative
7/14/2021	18.3	7.71	3.42	0.78		1.18	0	83	11	13	84	8.8	251	-1.33	6.46	1.96	Negative	Negative
7/15/2021	18.6	7.72	3.45	0.78		1.19	0	85	14	10	78	7.8	235	-1.19	7.80	1.75	Negative	Negative
7/16/2021	18.7	7.73	3.45	0.78		1.20	0	85	13	10	76	12.4	253	-1.22	7.60	1.71	Negative	Negative
7/17/2021	18.9	7.72	3.45	0.77		1.21	0	84	14	10	76	10.0	253	-1.20	7.60	1.73	Negative	Negative
7/18/2021	19.1	7.71	3.45	0.78		1.22	0	84	14	10	74	*	252	-1.21	7.40	1.69	Negative	Negative
7/19/2021	19.5	7.69	3.45	0.77	0.75	1.21	0	85	14	10	74	9.4	246	-0.48	1.40	0.44	Negative	Negative
7/20/2021	19.7	7.70	3.44	0.77		1.22	0	83	13	11	74	9.7	251	-0.48	1.18	0.44	Negative	Negative
7/21/2021	19.9	7.65	3.45	0.75		1.21	0	80	12	9	68	8.8	249	-0.58	1.33	0.40	Negative	Negative
7/22/2021	20.0	7.67	3.45	0.77		1.18	0	84	13	11	70	10.0	249	-0.52	1.18	0.44	Negative	Negative
7/23/2021	20.1	7.67	3.44	0.79		1.20	0	84	13	11	68	8.2	248	-0.53	1.18	0.44	Negative	Negative
7/24/2021	20.3	7.67	3.43	0.77		1.20	0	82	11	11	70	8.0	246	-0.53	1.00	0.40	Negative	Negative
7/25/2021	20.2	7.65	3.44	0.77		1.21	0	82	12	11	72	8.3	243	-0.54	1.09	0.43	Negative	Negative
7/26/2021	20.3	7.64	3.43	0.76	0.78	1.27	0	80	11	9	68	8.3	241	-0.58	1.22	0.38	Negative	Negative
7/27/2021	20.2	7.63	3.43	0.77		1.29	0	85	12	11	68	7.9	238	-0.56	1.09	0.41	Negative	Negative
7/28/2021	20.2	7.63	3.43	0.78		1.31	0	78	12	12	74	8.7	238	-0.56	1.00	0.46	Negative	Negative
7/29/2021	20.5	7.65	3.43	0.78		1.31	0	82	12	10	74	8.1	243	-0.52	1.20	0.41	Negative	Negative
7/30/2021	20.5	7.68	3.42	0.77		1.30	0	82	13	10	74	8.0	245	-0.49	1.30	0.43	Negative	Negative
7/31/2021	20.6	7.69	3.42	0.78		1.29	0	82	13	9	74	8.0	248	-0.48	1.44	0.42	Negative	Negative
Avg	17.9	7.71	3.41	0.77	0.77	1.22	0	82	12	10	73	9.3	243	-1.00	4.95	1.17	NA	NA
Min	10.5	7.63	3.30	0.75	0.75	1.18	0	78	9	8	68	6.5	223	-1.56	1.00	0.38	NA	NA
Max	20.6	7.77	3.45	0.79	0.78	1.31	0	85	14	13	84	12.4	253	-0.48	9.50	1.96	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
7/1/2021	0.25	0.31	1.50	0.29	0.021	0.021	96	0	0.0	0.018
7/2/2021	0.45	3.39	1.58	0.32	0.021	0.021	96	0	0.0	0.018
7/3/2021	0.60	1.17	3.61	0.50	0.021	0.021	96	0	0.0	0.018
7/4/2021	0.58	1.33	2.10	0.58	0.021	0.021	96	0	0.0	0.018
7/5/2021	0.47	0.79	1.40	0.53	0.021	0.021	96	0	0.0	0.018
7/6/2021	0.30	0.57	1.97	0.46	0.021	0.021	96	0	0.0	0.018
7/7/2021	0.36	2.60	1.31	0.35	0.021	0.021	96	0	0.0	0.018
7/8/2021	0.30	0.86	1.22	0.32	0.021	0.021	96	0	0.0	0.018
7/9/2021	0.69	3.04	1.67	0.51	0.021	0.021	96	0	0.0	0.018
7/10/2021	0.58	1.54	1.67	0.56	0.021	0.021	96	0	0.0	0.018
7/11/2021	0.54	1.48	1.75	0.61	0.021	0.022	96	0	0.0	0.018
7/12/2021	0.41	0.87	1.74	0.50	0.021	0.021	96	0	0.0	0.018
7/13/2021	0.57	1.25	1.64	0.50	0.021	0.021	96	0	0.0	0.018
7/14/2021	0.59	1.01	2.48	0.55	0.021	0.021	96	0	0.0	0.018
7/15/2021	0.54	0.97	2.42	0.64	0.021	0.022	96	0	0.0	0.018
7/16/2021	0.56	2.48	2.18	0.53	0.021	0.022	96	0	0.0	0.018
7/17/2021	0.77	1.18	2.35	0.62	0.021	0.022	96	0	0.0	0.018
7/18/2021	0.60	0.88	2.07	0.71	0.021	0.022	96	0	0.0	0.018
7/19/2021	0.52	1.77	2.51	0.67	0.021	0.021	96	0	0.0	0.018
7/20/2021	0.34	1.00	1.40	0.59	0.021	0.021	96	0	0.0	0.025
7/21/2021	0.47	1.84	1.62	0.54	0.021	0.021	96	0	0.0	0.018
7/22/2021	0.65	3.21	1.90	0.66	0.021	0.021	96	0	0.0	0.018
7/23/2021	0.57	2.27	1.75	0.68	0.021	0.022	96	0	0.0	0.018
7/24/2021	0.65	1.80	1.48	0.66	0.021	0.021	96	0	0.0	0.018
7/25/2021	0.57	1.79	1.68	0.66	0.021	0.022	96	0	0.0	0.018
7/26/2021	0.47	1.06	1.41	0.59	0.021	0.022	96	0	0.0	0.018
7/27/2021	0.43	1.99	2.10	0.49	0.021	0.021	96	0	0.0	0.018
7/28/2021	0.51	1.67	1.86	0.51	0.021	0.021	96	0	0.0	0.018
7/29/2021	0.50	0.74	2.54	0.57	0.021	0.021	96	0	0.0	0.018
7/30/2021	0.48	0.64	1.38	0.54	0.021	0.022	96	0	0.0	0.018
7/31/2021	0.69	2.09	2.53	0.59	0.022	0.022	96	0	0.0	0.018
Avg	0.52	1.54	1.90	0.54	0.021	0.021	96	0	0.0	0.018
Min	0.25	0.31	1.22	0.29	0.021	0.021	96	0	0.0	0.018
Max	0.77	3.39	3.61	0.71	0.022	0.022	96	0	0.0	0.025



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	LRV	Integrity	Turbidity		
	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max	Average	Pass/Fail	Max		
psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU	psi/min		NTU
7/1/2021	4.23	PASS	0.018	4.28	PASS	0.027	4.42	PASS	0.019	4.52	PASS	0.015	4.23	PASS	0.021	4.43	PASS	0.018	4.47	PASS	0.029	4.25	PASS	0.019					
7/2/2021	4.21	PASS	0.018	4.24	PASS	0.029	4.34	PASS	0.019	4.51	PASS	0.015	4.24	PASS	0.022	4.38	PASS	0.018	4.41	PASS	0.030	4.22	PASS	0.019					
7/3/2021	4.20	PASS	0.019	4.21	PASS	0.027	4.30	PASS	0.018	4.53	PASS	0.015	4.20	PASS	0.020	4.32	PASS	0.018	4.36	PASS	0.029	4.21	PASS	0.018					
7/4/2021	4.15	PASS	0.020	4.18	PASS	0.028	4.27	PASS	0.018	4.47	PASS	0.015	4.19	PASS	0.020	4.36	PASS	0.018	4.36	PASS	0.029	4.20	PASS	0.018					
7/5/2021	4.16	PASS	0.020	4.17	PASS	0.028	4.25	PASS	0.018	4.51	PASS	0.015	4.18	PASS	0.019	4.37	PASS	0.018	4.35	PASS	0.029	4.17	PASS	0.022					
7/6/2021	4.13	PASS	0.020	4.19	PASS	0.030	4.27	PASS	0.018	4.49	PASS	0.015	4.17	PASS	0.019	4.34	PASS	0.018	4.32	PASS	0.029	4.16	PASS	0.019					
7/7/2021	4.16	PASS	0.021	4.18	PASS	0.027	4.27	PASS	0.018	4.50	PASS	0.015	4.17	PASS	0.020	4.36	PASS	0.018	4.33	PASS	0.029	4.20	PASS	0.023					
7/8/2021	4.14	PASS	0.020	4.19	PASS	0.027	4.30	PASS	0.018	4.54	PASS	0.015	4.19	PASS	0.019	4.38	PASS	0.019	4.35	PASS	0.029	4.22	PASS	0.022					
7/9/2021	4.17	PASS	0.025	4.17	PASS	0.027	4.29	PASS	0.020	4.49	PASS	0.017	4.19	PASS	0.022	4.39	PASS	0.019	4.39	PASS	0.031	4.17	PASS	0.018					
7/10/2021	4.16	PASS	0.020	4.18	PASS	0.021	4.28	PASS	0.021	4.53	PASS	0.017	4.18	PASS	0.021	4.35	PASS	0.019	4.37	PASS	0.032	4.18	PASS	0.014					
7/11/2021	4.15	PASS	0.021	4.17	PASS	0.021	4.29	PASS	0.021	4.57	PASS	0.017	4.19	PASS	0.022	4.38	PASS	0.019	4.38	PASS	0.032	4.18	PASS	0.016					
7/12/2021	4.15	PASS	0.020	4.26	PASS	0.021	4.30	PASS	0.021	4.52	PASS	0.017	4.18	PASS	0.021	4.35	PASS	0.019	4.33	PASS	0.032	4.15	PASS	0.015					
7/13/2021	4.16	PASS	0.021	4.26	PASS	0.023	4.38	PASS	0.020	4.51	PASS	0.019	4.17	PASS	0.021	4.34	PASS	0.019	4.31	PASS	0.032	4.21	PASS	0.015					
7/14/2021	4.13	PASS	0.021	4.24	PASS	0.023	4.36	PASS	0.021	4.50	PASS	0.018	4.17	PASS	0.021	4.34	PASS	0.019	4.33	PASS	0.033	4.20	PASS	0.015					
7/15/2021	4.14	PASS	0.021	4.24	PASS	0.023	4.32	PASS	0.021	4.48	PASS	0.017	4.16	PASS	0.023	4.36	PASS	0.019	4.34	PASS	0.032	4.19	PASS	0.015					
7/16/2021	4.14	PASS	0.021	4.21	PASS	0.023	4.23	PASS	0.021	4.52	PASS	0.018	4.16	PASS	0.021	4.35	PASS	0.019	4.35	PASS	0.032	4.18	PASS	0.015					
7/17/2021	4.13	PASS	0.021	4.21	PASS	0.022	4.23	PASS	0.021	4.48	PASS	0.017	4.28	PASS	0.022	4.37	PASS	0.019	4.35	PASS	0.032	4.18	PASS	0.015					
7/18/2021	4.14	PASS	0.021	4.20	PASS	0.023	4.29	PASS	0.021	4.46	PASS	0.016	4.30	PASS	0.021	4.34	PASS	0.019	4.38	PASS	0.033	4.20	PASS	0.015					
7/19/2021	4.13	PASS	0.021	4.19	PASS	0.023	4.25	PASS	0.021	4.54	PASS	0.016	4.25	PASS	0.021	4.36	PASS	0.019	4.38	PASS	0.032	4.20	PASS	0.017					
7/20/2021	4.14	PASS	0.029	4.17	PASS	0.022	4.23	PASS	0.021	4.53	PASS	0.016	4.26	PASS	0.021	4.34	PASS	0.019	4.39	PASS	0.032	4.16	PASS	0.015					
7/21/2021	4.14	PASS	0.024	4.19	PASS	0.023	4.04	PASS	0.021	4.53	PASS	0.017	4.29	PASS	0.025	4.32	PASS	0.019	4.38	PASS	0.031	4.14	PASS	0.014					
7/22/2021	4.14	PASS	0.024	4.19	PASS	0.021	4.38	PASS	0.022	4.56	PASS	0.018	4.25	PASS	0.021	4.35	PASS	0.019	4.38	PASS	0.031	4.18	PASS	0.016					
7/23/2021	4.14	PASS	0.025	4.20	PASS	0.021	4.32	PASS	0.021	4.51	PASS	0.016	4.28	PASS	0.021	4.37	PASS	0.019	4.39	PASS	0.031	4.21	PASS	0.017					
7/24/2021	4.14	PASS	0.023	4.19	PASS	0.021	4.31	PASS	0.021	4.47	PASS	0.016	4.24	PASS	0.021	4.48	PASS	0.019	4.39	PASS	0.031	4.23	PASS	0.014					
7/25/2021	4.27	PASS	0.023	4.21	PASS	0.022	4.32	PASS	0.020	4.57	PASS	0.016	4.24	PASS	0.021	4.48	PASS	0.019	4.38	PASS	0.031	4.21	PASS	0.015					
7/26/2021	4.26	PASS	0.022	4.22	PASS	0.021	4.31	PASS	0.021	4.66	PASS	0.016	4.29	PASS	0.021	4.49	PASS	0.019	4.39	PASS	0.031	4.21	PASS	0.016					
7/27/2021	4.25	PASS	0.023	4.22	PASS	0.022	4.31	PASS	0.021	4.69	PASS	0.016	4.29	PASS	0.021	4.50	PASS	0.019	4.39	PASS	0.032	4.22	PASS	0.017					
7/28/2021	4.23	PASS	0.022	4.22	PASS	0.021	4.34	PASS	0.021	4.67	PASS	0.016	4.28	PASS	0.021	4.49	PASS	0.019	4.40	PASS	0.032	4.21	PASS	0.018					
7/29/2021	4.24	PASS	0.023	4.18	PASS	0.021	4.33	PASS	0.021	4.63	PASS	0.016	4.23	PASS	0.021	4.47	PASS	0.019	4.38	PASS	0.032	4.19	PASS	0.018					
7/30/2021	4.20	PASS	0.024	4.19	PASS	0.022	4.30	PASS	0.021	4.59	PASS	0.016	4.22	PASS	0.021	4.46	PASS	0.019	4.37	PASS	0.032	4.20	PASS	0.019					
7/31/2021	4.17	PASS	0.023	4.17	PASS	0.022	4.30	PASS	0.022	4.62	PASS	0.016	4.20	PASS	0.021	4.43	PASS	0.020	4.37	PASS	0.032	4.20	PASS	0.019					
Avg	4.17		0.022	4.20		0.024	4.29		0.020	4.54		0.016	4.22		0.021	4.39		0.019	4.37		0.031	4.20		0.017					
Min	4.13		0.018	4.17		0.021	4.04		0.018	4.46		0.015	4.16		0.019	4.32		0.018	4.31		0.029	4.14		0.014					
Max	4.27		0.029	4.28		0.030	4.42		0.022	4.69		0.019	4.30		0.025	4.50		0.020	4.47		0.033	4.25		0.023					

\*LRV not to exceed Upper Control Limit of 3.32 psi/min



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 <sub>2</sub>					PO <sub>4</sub>		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
7/1/2021	9.1	0.53	0.44	0.78	1.31	1.23	3.21	3.36	0.09	0.67	0.79
7/2/2021	9.8	0.49	0.43	0.79	1.30	1.21	3.21	3.36	0.08	0.67	0.76
7/3/2021	9.5	0.24	0.29	0.96	1.29	1.19	3.21	3.36	0.09	0.67	0.77
7/4/2021	9.5	0.22	0.18	1.10	1.31	1.18	3.21	3.37	0.09	0.67	0.77
7/5/2021	10.9	0.24	0.15	1.11	1.33	1.20	3.21	3.37	0.09	0.67	0.77
7/6/2021	10.4	0.42	0.23	0.98	1.34	1.22	3.21	3.37	0.09	0.67	0.77
7/7/2021	8.3	0.34	0.27	1.15	1.31	1.19	3.21	3.35	0.09	0.67	0.77
7/8/2021	7.4	0.30	0.24	1.27	1.30	1.18	3.25	3.30	0.08	0.67	0.77
7/9/2021	9.2	0.22	0.18	1.28	1.32	1.20	3.31	3.36	0.09	0.67	0.77
7/10/2021	8.6	0.27	0.18	1.30	1.32	1.20	3.31	3.37	0.08	0.67	0.77
7/11/2021	8.6	0.29	0.18	1.30	1.34	1.19	3.31	3.36	0.08	0.67	0.76
7/12/2021	9.2	0.41	0.25	1.20	1.34	1.21	3.34	3.38	0.08	0.67	0.77
7/13/2021	8.0	0.25	0.23	1.37	1.31	1.18	3.36	3.41	0.09	0.67	0.78
7/14/2021	9.0	0.21	0.15	1.40	1.33	1.18	3.36	3.42	0.09	0.67	0.78
7/15/2021	8.7	0.20	0.13	1.50	1.35	1.19	3.36	3.45	0.09	0.67	0.78
7/16/2021	8.1	0.22	0.12	1.49	1.36	1.20	3.34	3.45	0.09	0.67	0.78
7/17/2021	8.6	0.25	0.12	1.46	1.38	1.21	3.34	3.45	0.09	0.67	0.77
7/18/2021	8.8	0.34	0.18	1.34	1.37	1.22	3.34	3.45	0.09	0.67	0.78
7/19/2021	9.9	0.32	0.18	1.40	1.37	1.21	3.34	3.45	0.09	0.67	0.77
7/20/2021	9.4	0.31	0.18	1.38	1.36	1.22	3.34	3.44	0.09	0.67	0.77
7/21/2021	10.1	0.31	0.18	1.32	1.34	1.21	3.34	3.45	0.09	0.67	0.75
7/22/2021	9.4	0.29	0.17	1.40	1.33	1.18	3.33	3.45	0.09	0.67	0.77
7/23/2021	9.6	0.35	0.17	1.37	1.35	1.20	3.33	3.44	0.10	0.67	0.79
7/24/2021	7.8	0.43	0.19	1.41	1.35	1.20	3.33	3.43	0.09	0.67	0.77
7/25/2021	8.6	0.34	0.19	1.41	1.37	1.21	3.33	3.44	0.09	0.67	0.77
7/26/2021	9.3	0.41	0.22	1.40	1.42	1.27	3.33	3.43	0.08	0.67	0.76
7/27/2021	9.0	0.41	0.25	1.45	1.44	1.29	3.33	3.43	0.07	0.67	0.77
7/28/2021	9.7	0.39	0.25	1.44	1.46	1.31	3.33	3.43	0.08	0.67	0.78
7/29/2021	9.2	0.29	0.20	1.48	1.46	1.31	3.33	3.43	0.09	0.67	0.78
7/30/2021	9.2	0.23	0.15	1.62	1.46	1.30	3.33	3.42	0.09	0.67	0.77
7/31/2021	8.9	0.22	0.11	1.64	1.46	1.29	3.33	3.42	0.09	0.67	0.78
Avg	9.1	0.31	0.21	1.31	1.36	1.22	3.30	3.41	0.09	0.67	0.77
Min	7.4	0.20	0.11	0.78	1.29	1.18	3.21	3.30	0.07	0.67	0.75
Max	10.9	0.53	0.44	1.64	1.46	1.31	3.36	3.45	0.10	0.67	0.79





Date	Disinfection CT													
	Pipeline CT				FW Tank CT						Compliance			
	Whitestone	Travel Time	Residual	CT	FW Tank 1	FW Tank 2	Plant	Contact Time	Free Cl <sub>2</sub>	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	
7/1/2021	54.3	2,305	0.53	1223	28.8	24.1	8.8	410	1.20	490.03	1,712.60	15.0	4.00	Y
7/2/2021	58.1	2,152	0.49	1062	28.8	24.2	9.4	384	1.20	459.26	1,521.02	14.9	6.00	Y
7/3/2021	66.7	1,874	0.24	444	28.8	24.1	9.2	394	1.15	451.88	896.28	15.7	4.00	Y
7/4/2021	67.1	1,865	0.22	404	28.8	24.1	9.3	388	1.15	445.58	849.76	16.4	4.00	Y
7/5/2021	64.3	1,946	0.24	471	28.9	24.3	10.7	341	1.16	396.47	867.19	16.8	4.00	Y
7/6/2021	61.7	2,029	0.42	859	28.9	24.5	10.1	360	1.16	418.53	1,277.64	17.2	4.00	Y
7/7/2021	60.4	2,069	0.34	708	28.7	24.3	8.0	452	1.17	527.69	1,235.82	17.3	4.00	Y
7/8/2021	47.8	2,616	0.30	795	28.7	24.9	7.2	509	1.14	580.28	1,375.28	17.3	4.00	Y
7/9/2021	50.3	2,488	0.22	557	28.8	24.0	8.9	405	1.16	470.67	1,027.57	17.7	4.00	Y
7/10/2021	59.8	2,093	0.27	567	28.8	23.5	8.4	426	1.03	439.34	1,005.92	17.9	4.00	Y
7/11/2021	60.0	2,085	0.29	614	28.8	24.4	8.3	440	1.14	501.74	1,115.71	18.1	4.00	Y
7/12/2021	56.1	2,231	0.41	916	28.8	24.3	9.0	404	1.18	477.12	1,392.88	18.2	4.00	Y
7/13/2021	53.8	2,327	0.25	574	28.7	23.2	7.9	452	1.15	518.59	1,092.20	18.5	4.00	Y
7/14/2021	52.0	2,408	0.21	515	28.7	23.2	8.6	413	1.14	471.18	985.68	18.7	4.00	Y
7/15/2021	48.8	2,562	0.20	507	28.8	25.2	8.3	443	1.15	511.71	1,018.39	18.9	4.00	Y
7/16/2021	51.3	2,438	0.22	544	28.8	24.5	8.1	453	1.11	501.67	1,045.95	19.0	4.00	Y
7/17/2021	66.9	1,868	0.25	475	28.8	24.5	8.3	441	1.18	520.80	996.18	19.1	4.00	Y
7/18/2021	67.3	1,860	0.34	625	28.7	24.3	8.6	421	1.19	499.94	1,124.48	19.3	4.00	Y
7/19/2021	63.3	1,977	0.32	626	28.9	24.0	9.6	376	1.13	423.45	1,049.78	19.5	4.00	Y
7/20/2021	57.3	2,182	0.31	677	28.8	24.2	9.2	395	1.20	475.29	1,151.88	19.6	4.00	Y
7/21/2021	56.9	2,198	0.31	681	28.8	23.8	9.9	365	1.11	406.14	1,087.45	19.5	4.00	Y
7/22/2021	59.5	2,101	0.29	616	28.8	24.7	9.1	403	1.15	462.17	1,078.54	19.6	4.00	Y
7/23/2021	60.2	2,079	0.35	734	28.8	24.2	9.4	387	1.17	451.85	1,186.25	19.8	4.00	Y
7/24/2021	66.5	1,880	0.43	802	28.7	24.0	7.6	475	1.07	506.16	1,308.16	19.9	4.00	Y
7/25/2021	66.9	1,869	0.34	641	28.8	23.7	8.3	434	1.16	504.34	1,145.02	19.8	4.00	Y
7/26/2021	60.6	2,065	0.41	842	28.8	24.5	9.2	398	1.16	462.61	1,304.87	19.9	4.00	Y
7/27/2021	65.3	1,915	0.41	780	28.8	23.6	8.8	409	1.25	511.58	1,291.57	20.0	4.00	Y
7/28/2021	67.6	1,851	0.39	717	28.8	23.6	9.5	380	1.23	467.18	1,184.09	20.1	2.00	Y
7/29/2021	68.0	1,840	0.29	530	28.8	24.1	8.9	408	1.27	519.11	1,049.50	20.3	2.00	Y
7/30/2021	64.4	1,941	0.23	447	28.4	24.7	9.0	403	1.18	476.75	923.27	20.4	2.00	Y
7/31/2021	75.1	1,666	0.22	368	28.8	24.6	8.6	424	1.26	533.83	902.25	20.6	2.00	Y
Avg	60.6	2,090	0.31	655	28.8	24.2	8.9	413	1.16	480.09	1,135.59	18.5	3.81	NA
Min	47.8	1,666	0.20	368	28.4	23.2	7.2	341	1.03	396.47	849.76	14.9	2.00	NA
Max	75.1	2,616	0.53	1,223	28.9	25.2	10.7	509	1.27	580.28	1,712.60	20.6	6.00	NA



**Notes:**

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

**Distribution System Monitoring**

Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl<sub>2</sub>)

WSSN:	0072	0390				0400			0470							0485					0517	0518		2180
	Akron	Bangor Twp.				Bangor Monitor Dist.			Bay City							Bay County					Beaver Rd	Beaver Twp		Essexville
Date	1	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19	20	23	24	26	29	30	32
7/1/2021		0.21	0.40	0.57	1.12	0.90	1.07		0.83	0.37	0.48	0.76	0.40	0.94	0.78									
7/2/2021																								
7/3/2021																								
7/4/2021																								
7/5/2021																								
7/6/2021	0.51															0.77	0.81	0.70	0.78	0.44				
7/7/2021									0.79	0.32	0.53	0.87	0.33	1.07	0.67									1.01
7/8/2021		0.91	0.34					1.09														0.36		
7/9/2021																								
7/10/2021																								
7/11/2021																								
7/12/2021																								0.98
7/13/2021									1.03	0.36	0.62	0.84	0.45	0.95	0.71	0.92	0.94	0.91	1.00	0.65	1.01			
7/14/2021																								
7/15/2021		0.36	0.52	0.38	1.02				0.85	0.40	0.44	0.63	0.35	1.00	0.75								0.40	
7/16/2021																								
7/17/2021																								
7/18/2021																								
7/19/2021																								1.04
7/20/2021																								
7/21/2021									0.89	0.34	0.47	0.71	0.31	1.01	0.67									1.10
7/22/2021																								
7/23/2021																								
7/24/2021																								
7/25/2021																								
7/26/2021																								
7/27/2021									0.78	0.33	0.39	0.73	0.29	1.12	0.88									
7/28/2021																								
7/29/2021									0.65	0.27	0.59	0.50	0.17	1.07	0.59									
7/30/2021																								
7/31/2021																								
Average	0.51	0.58				1.02			0.64							0.79					1.01	0.38		1.03
Min	0.51	0.21				0.90			0.17							0.44					1.01	0.36		0.98
Max	0.51	1.12				1.09			1.12							1.00					1.01	0.40		1.10

MONITORING STATION ADDRESSES



1. Sample station at corner of 5758 M-25 & F
3. Bangor Fire Station, 3921 Wheeler
4. BCDWS Admin. Bldg. 3933 Patterson Rd.
5. 7-11, 3543 S. Old Kawkawlin Rd.
6. Admiral Petroleum, 314 S Euclid Ave.
7. Sequin Lumber, 3881 Euclid Ave
9. B's Boutique, 2981 Midland Rd
10. Little Caesars, 3475 E North Union Rd

11. Number 1 Fire Station, 1401 Center Ave
12. Number 2 Fire Station, 1000 Fremont Ave
13. Skizak's Sport Shop, 807 Salzburg Ave
14. Number 4 Fire Station, 212 S. Dean St
15. Number 5 Fire Station, 1209 Smith St
16. Bay City Hall, 301 Washington Ave
17. Skipper Buds Marina, 1809 S Water St
18. Bay Valley Animal Hospital 6015 WS Saginaw Rd

19. Dore's M-84 Party Store, 6183 WS Saginaw Rd
20. Pump Station #13, 6000 WS Saginaw Rd
23. Rail Trail Pump Station, 366 N. Tuscola Rd.
24. Little Learners Daycare, 1694 Cass Ave.
26. Wieland Contracting, 2443 S Mackinaw Rd
29. Sample Station, 2515 S. 11 Mile Rd
30. Sample Station, 340 W. Beaver Rd
32. Essexville City Hall, 1107 Woodside Ave

Distribution System Monitoring

Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl2)

WSSN: Date	2465 Fraser Twp.		2960 Hampton Twp.			3565 Kawkawlin Twp.			3570 Kawkawlin Met.		4280 Merritt Twp.		4440 Monitor Twp.			5330 City Pinconning		5335 Pinconning Twp.		5540 Portsmouth	7125 Williams Twp.			7134 Wisner	
	34	35	37	38	39	40	41	42	43	45	46	48	49	52	55	58	59	61	63	65	68	69	70	72	
	7/1/2021	0.83	0.91				1.04			1.05				1.05	0.67	0.87	0.72		0.77	0.67					
7/2/2021																									
7/3/2021																									
7/4/2021																									
7/5/2021																									
7/6/2021			0.58	0.75	0.47						0.49									0.76				0.61	
7/7/2021																									
7/8/2021													0.97	0.71	0.71							0.61	0.64	0.62	
7/9/2021																									
7/10/2021																									
7/11/2021																									
7/12/2021			0.43	0.58	0.54																				
7/13/2021								0.98	0.80		0.51					0.43									
7/14/2021																									
7/15/2021																						0.51	0.72	0.52	
7/16/2021																									
7/17/2021																									
7/18/2021																									
7/19/2021			0.48	0.69	0.47																				
7/20/2021						0.79																			
7/21/2021																									
7/22/2021																									
7/23/2021																									
7/24/2021																									
7/25/2021																									
7/26/2021			0.43																						
7/27/2021																									
7/28/2021																									
7/29/2021																									
7/30/2021																									
7/31/2021																									
Average	0.87		0.54			0.94			0.93		0.50		0.83			0.58		0.72		0.76	0.60			0.61	
Min	0.83		0.43			0.79			0.80		0.49		0.67			0.43		0.67		0.76	0.51			0.61	
Max	0.91		0.75			1.04			1.05		0.51		1.05			0.72		0.77		0.76	0.72			0.61	

MONITORING STATION ADDRESSES

- 34. Fraser Elevated Tank, 2949 1/2 N. Huron Rd
- 35. Lloyd's Cabinet, 1947 N Huron Rd
- 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. Kawkawlin Party Store, 105 Grove St
- 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



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 <b>Bay Area Water Treatment Plant</b>			
				July, 2021			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.51	1	1	0	0
BAY	Bangor Township	0390	0.58	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	1.02	3	3	0	0
BAY	Bay City	0470	0.64	40	49	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.79	10	10	0	0
BAY	Beaver Road Area	0517	1.01	1	1	0	0
BAY	Beaver Township	0518	0.38	2	2	0	0
BAY	Essexville	2180	1.03	4	4	0	0
BAY	Fraser Township	2465	0.87	2	2	0	0
BAY	Hampton Township	2960	0.54	10	10	0	0
BAY	Kawkawlin Township	3565	0.94	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.93	2	2	0	0
BAY	Merritt Township	4280	0.50	2	2	0	0
BAY	Monitor Township	4440	0.83	6	6	0	0
BAY	City of Pinconning	5330	0.58	2	2	0	0
BAY	Pinconning Township	5335	0.72	2	2	0	0
BAY	Portsmouth Township	5540	0.76	1	1	0	0
BAY	Williams Township	7125	0.60	6	6	0	0
Tuscola	Wisner	7134	0.61	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.73	mg/L			
1. Total distribution samples					117		
2. Total distribution samples with detectable free cl2 residual					117		
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%		

