

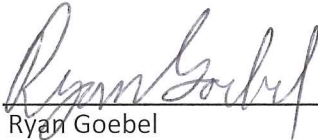
Bay Area WTP

Monthly Operations Report



January, 2023

Water Systems Serial Number: 0465


Ryan Goebel

Water Plant Superintendent
Title

F-1
Classification


Mike Wagar

Operations Supervisor
Title

F-2
Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
WSSN: 0465

January, 2023
Month, Year

F-1
Water Plant Classification

Bay
County

Ryan Goebel
Operator-in-charge

F-1
Certification of Operator-in-charge

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	<u>17.4</u>	Millions of Gallons per Day
Treatment Rate, Maximum	<u>7.2</u>	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	<u>22</u>	PSI
Maximum Operating Transmembrane Pressure	<u>14.53</u>	PSI
Maximum Approved Flux Rate	<u>36.25</u>	gpd/sq.ft.
Maximum Operating Flux Rate	<u>22.66</u>	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	<u>3,731</u>	Gallons	Estimated Supply:	<u>47.7</u>	days
Caustic Soda on hand:	<u>2,961</u>	Gallons	Estimated Supply:	<u>202.8</u>	days
Corrosion Inhibitor on hand:	<u>1,304</u>	Gallons	Estimated Supply:	<u>59.9</u>	days
Hydrofluosilicic Acid on hand:	<u>1,069</u>	Gallons	Estimated Supply:	<u>58.7</u>	days
Aluminum Chlorohydrate on hand:	<u>400</u>	Gallons	Estimated Supply:	<u>67.0</u>	days
Sulfuric Acid on hand:	<u>547</u>	Gallons	Estimated Supply:	<u>273.6</u>	days
Sodium Bisulfite on hand:	<u>267</u>	Gallons	Estimated Supply:	<u>92.0</u>	days
Citric Acid on hand:	<u>538</u>	Gallons	Estimated Supply:	<u>43.0</u>	days
Cost of All Chemicals per Million Gallons:	<u>109.32</u>	Dollars			
Estimated Electrical Cost per Million Gallons:	<u>115.6</u>	Dollars			
Estimated Natural Gas Cost per Million Gallons:	<u>28.66</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

Filter #8 out for Membrane Replacement @ 7:20am on Monday 1-9-23 and back in service on Thursday 1-19-23 @ 12:50pm

Filter #5 out for Membrane Replacement @ 6:41am on 1-23-23, scheduled to return to service Monday, February 6 around 1:00pm.

Bay Area WTP Monthly Operating Report

Date	Flows								
	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
1/1/2023	0.00	6.88	6.88	0.36	0.08	6.90	3.38	3.21	6.59
1/2/2023	0.00	6.43	6.43	0.37	0.08	7.21	3.55	3.38	6.93
1/3/2023	0.00	6.72	6.72	0.37	0.08	6.87	3.37	3.20	6.57
1/4/2023	0.00	7.84	7.84	0.34	0.08	6.86	3.41	3.24	6.65
1/5/2023	0.00	7.37	7.37	0.31	0.08	6.78	3.34	3.17	6.51
1/6/2023	0.00	6.75	6.75	0.32	0.08	6.97	3.42	3.23	6.65
1/7/2023	0.00	6.22	6.22	0.32	0.08	6.87	3.45	3.28	6.73
1/8/2023	0.00	6.85	6.85	0.35	0.08	7.15	3.51	3.34	6.85
1/9/2023	0.00	7.85	7.85	0.34	0.08	7.05	3.50	3.33	6.83
1/10/2023	0.00	6.95	6.95	0.36	0.08	6.67	3.32	3.15	6.47
1/11/2023	0.00	6.93	6.93	0.34	0.08	6.84	3.34	3.17	6.51
1/12/2023	0.00	6.55	6.55	0.40	0.08	6.70	3.35	3.18	6.53
1/13/2023	0.00	6.07	6.07	0.34	0.08	6.85	3.33	3.16	6.49
1/14/2023	0.00	6.47	6.47	0.35	0.08	6.81	3.34	3.17	6.51
1/15/2023	0.00	7.03	7.03	0.37	0.08	6.92	3.40	3.23	6.63
1/16/2023	0.00	7.76	7.76	0.39	0.08	7.08	3.52	3.35	6.87
1/17/2023	0.00	7.07	7.07	0.37	0.08	7.03	3.45	3.28	6.73
1/18/2023	0.00	6.67	6.67	0.37	0.08	6.70	3.27	3.10	6.37
1/19/2023	0.00	6.68	6.68	0.36	0.04	6.71	3.32	3.15	6.47
1/20/2023	0.00	7.00	7.00	0.39	0.04	6.85	3.37	3.20	6.57
1/21/2023	0.00	5.94	5.94	0.35	0.08	6.65	3.26	3.09	6.35
1/22/2023	0.00	6.67	6.67	0.35	0.08	6.46	3.22	3.05	6.27
1/23/2023	0.00	6.69	6.69	0.34	0.08	6.88	3.43	3.26	6.69
1/24/2023	0.00	6.86	6.86	0.34	0.08	7.13	3.41	3.24	6.65
1/25/2023	0.00	7.33	7.33	0.34	0.08	6.86	3.42	3.25	6.67
1/26/2023	0.00	7.18	7.18	0.37	0.08	7.07	3.46	3.29	6.75
1/27/2023	0.00	7.07	7.07	0.31	0.08	6.82	3.34	3.17	6.51
1/28/2023	0.00	6.88	6.88	0.31	0.08	6.54	3.25	3.08	6.33
1/29/2023	0.00	6.04	6.04	0.32	0.08	6.85	3.41	3.22	6.63
1/30/2023	0.00	6.73	6.73	0.34	0.08	7.16	3.50	3.33	6.83
1/31/2023	0.00	7.86	7.86	0.30	0.08	6.81	3.30	3.13	6.43
Total	0.00	213.34	213.34	10.75	2.32	213.05	104.94	99.65	204.59
Avg	0.00	6.88	6.88	0.35	0.07	6.87	3.39	3.21	6.60
Min	0.00	5.94	5.94	0.30	0.04	6.46	3.22	3.05	6.27
Max	0.00	7.86	7.86	0.40	0.08	7.21	3.55	3.38	6.93



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	
1/1/2023	7.3	8.11	0.60	1.06	0.08	0.47	Negative	Negative
1/2/2023	7.2	8.12	0.43	0.59	0.08	0.44	Negative	Negative
1/3/2023	7.3	8.12	0.39	0.44	0.08	0.44	Negative	Negative
1/4/2023	7.4	8.11	0.37	0.50	0.08	0.45	Negative	Negative
1/5/2023	7.3	8.11	1.55	3.75	0.08	0.40	Negative	Negative
1/6/2023	7.4	8.11	4.31	16.86	0.08	0.35	Negative	Negative
1/7/2023	7.4	8.10	2.03	7.80	0.08	0.44	Negative	Negative
1/8/2023	7.3	8.10	1.04	3.37	0.08	0.50	Negative	Negative
1/9/2023	7.1	8.11	0.93	4.20	0.08	0.52	Negative	Negative
1/10/2023	6.3	8.13	0.69	1.31	0.08	0.46	Negative	Negative
1/11/2023	5.2	8.13	0.53	1.91	0.08	0.44	Negative	Negative
1/12/2023	5.3	8.13	0.85	5.69	0.08	0.42	Negative	Negative
1/13/2023	5.1	8.14	0.83	1.46	0.08	0.42	Negative	Negative
1/14/2023	5.0	8.12	3.92	15.12	0.08	0.39	Negative	Negative
1/15/2023	4.9	8.13	3.38	10.70	0.09	0.39	Negative	Negative
1/16/2023	4.8	8.14	0.91	1.35	0.08	0.43	Negative	Negative
1/17/2023	4.8	8.14	0.68	0.90	0.07	0.43	Negative	Negative
1/18/2023	4.6	8.00	0.62	0.98	0.08	0.44	Negative	Negative
1/19/2023	4.6	7.90	0.60	1.06	0.08	0.43	Negative	Negative
1/20/2023	4.6	7.90	1.29	6.89	0.08	0.42	Negative	Negative
1/21/2023	4.6	7.85	4.10	7.69	0.09	0.41	Negative	Negative
1/22/2023	4.6	7.84	1.80	3.17	0.08	0.44	Negative	Negative
1/23/2023	4.6	7.85	1.14	1.59	0.08	0.44	Negative	Negative
1/24/2023	4.7	7.90	0.81	1.41	0.08	0.46	Negative	Negative
1/25/2023	4.7	7.89	0.96	1.66	0.08	0.43	Negative	Negative
1/26/2023	4.8	7.88	0.61	0.95	0.08	0.43	Negative	Negative
1/27/2023	4.8	7.85	4.87	11.69	0.09	0.35	Negative	Negative
1/28/2023	4.7	7.82	2.06	4.67	0.08	0.55	Negative	Negative
1/29/2023	4.7	7.82	2.02	29.47	0.09	0.51	Negative	Negative
1/30/2023	4.5	7.82	1.66	5.77	0.09	0.53	Negative	Negative
1/31/2023	4.6	7.81	5.19	18.30	0.09	0.40	Negative	Negative
Avg	5.6	8.01	1.65	5.56	0.08	0.44	NA	NA
Min	4.5	7.81	0.37	0.44	0.07	0.35	NA	NA
Max	7.4	8.14	5.19	29.47	0.09	0.55	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	Index	Ratio	Index	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				Calculated	
1/1/2023	4.7	7.71	3.34	0.76		1.04	0	72	11	10	76	12.2	219	-0.89	1.10	0.44	Negative	Negative
1/2/2023	4.5	7.71	3.34	0.78	0.73	1.04	0	73	11	9	74	12.3	221	-0.90	1.22	0.42	Negative	Negative
1/3/2023	4.4	7.72	3.35	0.74		1.04	0	74	10	10	72	12.2	220	-0.89	1.00	0.41	Negative	Negative
1/4/2023	4.4	7.73	3.36	0.75		1.03	0	74	10	9	74	12.9	222	-0.87	1.11	0.39	Negative	Negative
1/5/2023	4.3	7.72	3.35	0.76		1.02	0	75	10	8	76	13.0	221	-0.87	1.25	0.37	Negative	Negative
1/6/2023	4.1	7.71	3.36	0.75		1.01	0	74	10	11	74	13.0	222	-0.90	0.91	0.42	Negative	Negative
1/7/2023	4.1	7.72	3.35	0.76		1.02	0	74	10	8	76	13.2	220	-0.88	1.25	0.37	Negative	Negative
1/8/2023	4.1	7.72	3.35	0.76		1.03	0	75	10	8	76	13.3	220	-0.87	1.25	0.37	Negative	Negative
1/9/2023	4.1	7.73	3.36	0.76	0.76	1.03	0	74	10	8	76	13.2	219	-0.87	1.25	0.37	Negative	Negative
1/10/2023	4.2	7.72	3.37	0.76		1.02	0	74	10	8	76	13.2	220	-0.87	1.25	0.37	Negative	Negative
1/11/2023	4.2	7.73	3.38	0.75		1.01	0	75	10	9	70	12.5	220	-0.89	1.11	0.38	Negative	Negative
1/12/2023	4.3	7.73	3.36	0.73		1.01	0	73	11	10	72	12.3	221	-0.89	1.10	0.44	Negative	Negative
1/13/2023	4.3	7.74	3.37	0.76		1.00	0	73	11	11	74	12.8	219	-0.87	1.00	0.45	Negative	Negative
1/14/2023	4.2	7.73	3.36	0.78		1.01	0	74	11	11	74	13.2	216	-0.87	1.00	0.45	Negative	Negative
1/15/2023	4.0	7.73	3.36	0.78		1.01	0	73	10	10	74	12.9	218	-0.88	1.00	0.41	Negative	Negative
1/16/2023	3.8	7.73	3.36	0.77	0.77	1.02	0	74	10	9	76	12.8	219	-0.87	1.11	0.39	Negative	Negative
1/17/2023	3.7	7.74	3.37	0.74		1.02	0	71	11	10	76	12.8	222	-0.89	1.10	0.45	Negative	Negative
1/18/2023	3.6	7.74	3.36	0.76		1.02	0	72	10	8	74	13.3	220	-0.89	1.25	0.38	Negative	Negative
1/19/2023	3.6	7.74	3.37	0.76		1.02	0	77	11	9	70	10.4	208	-0.88	1.22	0.40	Negative	Negative
1/20/2023	3.8	7.56	3.37	0.77		1.00	0	80	11	9	72	11.5	214	-1.03	1.22	0.38	Negative	Negative
1/21/2023	3.8	7.65	3.36	0.80		1.02	0	75	10	10	76	14.2	221	-0.95	1.00	0.40	Negative	Negative
1/22/2023	3.7	7.63	3.36	0.80		1.03	0	75	10	9	76	14.1	222	-0.97	1.11	0.38	Negative	Negative
1/23/2023	3.7	7.62	3.36	0.78	0.77	1.03	0	74	10	8	76	13.9	222	-0.99	1.25	0.37	Negative	Negative
1/24/2023	3.7	7.64	3.37	0.80		1.03	0	74	10	10	74	13.7	221	-0.98	1.00	0.41	Negative	Negative
1/25/2023	3.8	7.58	3.37	0.80		1.02	0	78	12	11	76	13.9	221	-1.00	1.09	0.45	Negative	Negative
1/26/2023	3.8	7.58	3.37	0.76		1.02	0	72	10	11	74	12.8	221	-1.04	0.91	0.44	Negative	Negative
1/27/2023	3.9	7.57	3.37	0.82		1.01	0	74	10	11	74	12.0	221	-1.04	0.91	0.42	Negative	Negative
1/28/2023	3.9	7.55	3.38	0.77		1.01	0	73	11	10	74	12.5	222	-1.07	1.10	0.44	Negative	Negative
1/29/2023	3.9	7.53	3.37	0.77		1.02	0	74	10	11	76	13.0	221	-1.07	0.91	0.42	Negative	Negative
1/30/2023	3.8	7.53	3.38	0.80	0.81	1.02	0	72	10	11	76	14.0	221	-1.09	0.91	0.44	Negative	Negative
1/31/2023	3.7	7.53	3.37	0.83		1.02	0	71	10	9	72	11.9	225	-1.12	1.11	0.41	Negative	Negative
Avg	4.0	7.67	3.36	0.77	0.77	1.02	0	74	10	10	74	12.9	220	-0.94	1.10	0.41	NA	NA
Min	3.6	7.53	3.34	0.73	0.73	1.00	0	71	10	8	70	10.4	208	-1.12	0.91	0.37	NA	NA
Max	4.7	7.74	3.38	0.83	0.81	1.04	0	80	12	11	76	14.2	225	-0.87	1.25	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
1/1/2023	0.60	1.06	1.77	0.52	0.021	0.021	96	0	0.0	0.016
1/2/2023	0.43	0.59	1.83	0.46	0.021	0.021	96	0	0.0	0.016
1/3/2023	0.39	0.44	2.20	0.40	0.021	0.021	96	0	0.0	0.016
1/4/2023	0.37	0.50	2.06	0.37	0.021	0.021	96	0	0.0	0.016
1/5/2023	1.55	3.75	2.71	0.48	0.021	0.021	96	0	0.0	0.016
1/6/2023	4.31	16.86	3.08	1.77	0.021	0.022	96	0	0.0	0.015
1/7/2023	2.03	7.80	2.95	2.32	0.021	0.022	96	0	0.0	0.016
1/8/2023	1.04	3.37	2.87	1.55	0.021	0.022	96	0	0.0	0.016
1/9/2023	0.93	4.20	2.92	1.03	0.021	0.022	96	0	0.0	0.016
1/10/2023	0.69	1.31	3.12	0.88	0.021	0.021	96	0	0.0	0.016
1/11/2023	0.53	1.91	2.72	0.71	0.021	0.021	96	0	0.0	0.016
1/12/2023	0.85	5.69	2.48	0.64	0.021	0.022	96	0	0.0	0.016
1/13/2023	0.83	1.46	1.95	0.75	0.021	0.022	96	0	0.0	0.016
1/14/2023	3.92	15.12	2.59	1.46	0.021	0.022	96	0	0.0	0.016
1/15/2023	3.38	10.70	3.17	2.97	0.021	0.022	96	0	0.0	0.016
1/16/2023	0.91	1.35	3.13	1.65	0.021	0.022	96	0	0.0	0.016
1/17/2023	0.68	0.90	3.11	1.08	0.021	0.022	96	0	0.0	0.016
1/18/2023	0.62	0.98	2.69	0.78	0.021	0.022	96	0	0.0	0.016
1/19/2023	0.60	1.06	2.47	0.67	0.021	0.022	96	0	0.0	0.016
1/20/2023	1.29	6.89	2.57	0.69	0.021	0.022	96	0	0.0	0.016
1/21/2023	4.10	7.69	2.28	2.10	0.021	0.022	96	0	0.0	0.016
1/22/2023	1.80	3.17	2.33	2.12	0.021	0.022	96	0	0.0	0.016
1/23/2023	1.14	1.59	2.32	1.59	0.021	0.022	96	0	0.0	0.016
1/24/2023	0.81	1.41	2.84	1.17	0.021	0.022	96	0	0.0	0.016
1/25/2023	0.96	1.66	3.17	0.98	0.021	0.022	96	0	0.0	0.016
1/26/2023	0.61	0.95	3.33	0.81	0.021	0.022	96	0	0.0	0.016
1/27/2023	4.87	11.69	3.38	1.56	0.021	0.022	96	0	0.0	0.016
1/28/2023	2.06	4.67	3.68	2.81	0.022	0.022	96	0	0.0	0.016
1/29/2023	2.02	29.47	4.04	2.43	0.021	0.022	96	0	0.0	0.016
1/30/2023	1.66	5.77	3.76	1.82	0.022	0.022	96	0	0.0	0.016
1/31/2023	5.19	18.30	3.28	3.39	0.022	0.022	96	0	0.0	0.016
Avg	1.65	5.56	2.80	1.35	0.021	0.022	96	0	0.0	0.016
Min	0.37	0.44	1.77	0.37	0.021	0.021	96	0	0.0	0.015
Max	5.19	29.47	4.04	3.39	0.022	0.022	96	0	0.0	0.016



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		
	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
1/1/2023	4.23	PASS	0.019	4.11	PASS	0.025	4.21	PASS	0.019	4.42	PASS	0.015	4.30	PASS	0.021	4.43	PASS	0.022	4.33	PASS	0.027	4.36	PASS	0.020		
1/2/2023	4.23	PASS	0.019	4.09	PASS	0.023	4.23	PASS	0.019	4.40	PASS	0.015	4.29	PASS	0.021	4.40	PASS	0.023	4.34	PASS	0.029	4.29	PASS	0.020		
1/3/2023	4.25	PASS	0.019	4.08	PASS	0.025	4.24	PASS	0.019	4.37	PASS	0.015	4.30	PASS	0.020	4.41	PASS	0.022	4.46	PASS	0.029	4.31	PASS	0.020		
1/4/2023	4.25	PASS	0.019	4.05	PASS	0.024	4.23	PASS	0.019	4.34	PASS	0.015	4.25	PASS	0.021	4.38	PASS	0.026	4.51	PASS	0.029	4.26	PASS	0.019		
1/5/2023	4.19	PASS	0.019	4.06	PASS	0.023	4.22	PASS	0.019	4.36	PASS	0.015	4.57	PASS	0.021	4.40	PASS	0.024	4.48	PASS	0.029	4.24	PASS	0.020		
1/6/2023	4.18	PASS	0.020	4.06	PASS	0.023	4.26	PASS	0.021	4.34	PASS	0.017	4.52	PASS	0.022	4.39	PASS	0.027	4.49	PASS	0.029	4.23	PASS	0.020		
1/7/2023	4.18	PASS	0.020	4.05	PASS	0.024	4.22	PASS	0.021	4.29	PASS	0.015	4.40	PASS	0.021	4.34	PASS	0.032	4.66	PASS	0.029	4.20	PASS	0.020		
1/8/2023	4.24	PASS	0.020	4.05	PASS	0.024	4.22	PASS	0.021	4.28	PASS	0.015	4.31	PASS	0.021	4.36	PASS	0.027	4.51	PASS	0.029	4.20	PASS	0.021		
1/9/2023	4.18	PASS	0.019	4.03	PASS	0.023	4.21	PASS	0.021	4.27	PASS	0.014	4.32	PASS	0.021	4.36	PASS	0.029	4.44	PASS	0.029	4.21	PASS	0.019		
1/10/2023	4.22	PASS	0.019	4.08	PASS	0.023	4.20	PASS	0.021	4.31	PASS	0.014	4.33	PASS	0.021	4.38	PASS	0.027	4.39	PASS	0.029					
1/11/2023	4.21	PASS	0.019	4.06	PASS	0.023	4.21	PASS	0.020	4.29	PASS	0.014	4.31	PASS	0.021	4.40	PASS	0.024	4.48	PASS	0.029					
1/12/2023	4.20	PASS	0.019	4.03	PASS	0.024	4.20	PASS	0.020	4.29	PASS	0.014	4.32	PASS	0.021	4.43	PASS	0.028	4.45	PASS	0.028					
1/13/2023	4.18	PASS	0.019	4.06	PASS	0.024	4.20	PASS	0.020	4.33	PASS	0.015	4.33	PASS	0.021	4.35	PASS	0.031	4.42	PASS	0.029					
1/14/2023	4.17	PASS	0.020	4.05	PASS	0.023	4.22	PASS	0.020	4.31	PASS	0.020	4.34	PASS	0.020	4.36	PASS	0.029	4.41	PASS	0.029					
1/15/2023	4.19	PASS	0.019	4.05	PASS	0.024	4.22	PASS	0.020	4.28	PASS	0.015	4.36	PASS	0.021	4.42	PASS	0.030	4.40	PASS	0.029					
1/16/2023	4.17	PASS	0.019	4.06	PASS	0.024	4.20	PASS	0.020	4.30	PASS	0.016	4.35	PASS	0.021	4.35	PASS	0.026	4.37	PASS	0.029					
1/17/2023	4.15	PASS	0.019	4.05	PASS	0.024	4.21	PASS	0.020	4.32	PASS	0.015	4.31	PASS	0.020	4.37	PASS	0.027	4.42	PASS	0.029					
1/18/2023	4.16	PASS	0.019	4.04	PASS	0.023	4.20	PASS	0.020	4.33	PASS	0.015	4.32	PASS	0.020	4.40	PASS	0.026	4.54	PASS	0.029					
1/19/2023	4.14	PASS	0.019	4.03	PASS	0.023	4.18	PASS	0.022	4.31	PASS	0.014	4.33	PASS	0.021	4.35	PASS	0.029	4.54	PASS	0.029	4.93	PASS	0.021		
1/20/2023	4.15	PASS	0.019	4.05	PASS	0.023	4.26	PASS	0.021	4.40	PASS	0.014	4.34	PASS	0.021	4.38	PASS	0.027	4.42	PASS	0.029	4.88	PASS	0.021		
1/21/2023	4.16	PASS	0.019	4.04	PASS	0.024	4.28	PASS	0.020	4.38	PASS	0.015	4.32	PASS	0.021	4.40	PASS	0.027	4.40	PASS	0.028	4.83	PASS	0.022		
1/22/2023	4.39	PASS	0.020	4.02	PASS	0.026	4.21	PASS	0.020	4.37	PASS	0.015	4.30	PASS	0.020	4.44	PASS	0.026	4.39	PASS	0.029	4.84	PASS	0.021		
1/23/2023	4.32	PASS	0.019	4.04	PASS	0.023	4.18	PASS	0.021	4.33	PASS	0.015	4.34	PASS	0.021	4.37	PASS	0.027	4.36	PASS	0.032	4.85	PASS	0.021		
1/24/2023	4.20	PASS	0.019	4.06	PASS	0.024	4.23	PASS	0.022	4.34	PASS	0.014	4.33	PASS	0.026	4.33	PASS	0.026	4.33	PASS	0.029	4.82	PASS	0.021		
1/25/2023	4.19	PASS	0.019	4.04	PASS	0.023	4.20	PASS	0.024	4.30	PASS	0.014	4.45	PASS	0.025	4.36	PASS	0.029	4.82	PASS	0.029	4.82	PASS	0.021		
1/26/2023	4.26	PASS	0.019	4.04	PASS	0.024	4.22	PASS	0.020	4.30	PASS	0.015	4.40	PASS	0.025	4.36	PASS	0.028	4.84	PASS	0.029	4.84	PASS	0.021		
1/27/2023	4.26	PASS	0.020	4.04	PASS	0.023	4.27	PASS	0.020	4.34	PASS	0.017	4.37	PASS	0.024	4.40	PASS	0.028	4.84	PASS	0.028	4.84	PASS	0.021		
1/28/2023	4.22	PASS	0.020	Out for pinning 1-27-23 to 1-30-23			4.25	PASS	0.020	4.35	PASS	0.014	Out for Membrane replacement 1-23-23 to (2-6-23)			4.34	PASS	0.024	4.37	PASS	0.029	4.82	PASS	0.021		
1/29/2023	4.23	PASS	0.020				4.23	PASS	0.020	4.56	PASS	0.014				4.39	PASS	0.025	4.38	PASS	0.029	4.83	PASS	0.020		
1/30/2023	4.20	PASS	0.019	4.23	PASS	0.023	4.21	PASS	0.020	4.47	PASS	0.014	4.40	PASS	0.024	4.35	PASS	0.028	4.85	PASS	0.028	4.85	PASS	0.020		
1/31/2023	4.18	PASS	0.020	4.29	PASS	0.024	4.18	PASS	0.021	4.42	PASS	0.014	4.58	PASS	0.022	4.36	PASS	0.029	4.87	PASS	0.029	4.87	PASS	0.021		
Avg	4.21		0.019	4.07		0.024	4.22		0.020	4.34		0.015	4.34		0.021	4.39		0.026	4.42		0.029	4.61		0.021		
Min	4.14		0.019	4.02		0.023	4.18		0.019	4.27		0.014	4.25		0.020	4.33		0.022	4.33		0.027	4.20		0.019		
Max	4.39		0.020	4.29		0.026	4.28		0.024	4.56		0.020	4.57		0.022	4.58		0.032	4.66		0.032	4.93		0.022		

out for Membrane replacment
1-9-23 to 1-19-23



*LRV must remain above 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 ₂					PO ₄		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
1/1/2023	6.9	0.47	0.45	0.56	1.10	1.04	3.18	3.34	0.08	0.62	0.76
1/2/2023	7.2	0.44	0.41	0.60	1.10	1.04	3.18	3.34	0.08	0.62	0.78
1/3/2023	6.9	0.44	0.40	0.59	1.08	1.04	3.18	3.35	0.08	0.60	0.74
1/4/2023	6.9	0.45	0.40	0.63	1.07	1.03	3.18	3.36	0.08	0.60	0.75
1/5/2023	6.8	0.40	0.38	0.63	1.05	1.02	3.18	3.35	0.08	0.60	0.76
1/6/2023	7.0	0.35	0.34	0.68	1.05	1.01	3.18	3.36	0.08	0.60	0.75
1/7/2023	6.9	0.44	0.33	0.70	1.07	1.02	3.18	3.35	0.08	0.60	0.76
1/8/2023	7.1	0.50	0.38	0.65	1.06	1.03	3.18	3.35	0.08	0.60	0.76
1/9/2023	7.1	0.52	0.42	0.60	1.06	1.03	3.20	3.36	0.08	0.60	0.76
1/10/2023	6.7	0.46	0.42	0.60	1.04	1.02	3.20	3.37	0.08	0.60	0.76
1/11/2023	6.8	0.44	0.40	0.63	1.05	1.01	3.20	3.38	0.08	0.60	0.75
1/12/2023	6.7	0.42	0.39	0.63	1.03	1.01	3.20	3.36	0.08	0.60	0.73
1/13/2023	6.9	0.42	0.37	0.65	1.03	1.00	3.20	3.37	0.08	0.62	0.76
1/14/2023	6.8	0.39	0.37	0.67	1.04	1.01	3.20	3.36	0.08	0.62	0.78
1/15/2023	6.9	0.39	0.33	0.69	1.04	1.01	3.20	3.36	0.09	0.62	0.78
1/16/2023	7.1	0.43	0.36	0.65	1.06	1.02	3.20	3.36	0.08	0.61	0.77
1/17/2023	7.0	0.43	0.37	0.67	1.05	1.02	3.20	3.37	0.07	0.60	0.74
1/18/2023	6.7	0.44	0.37	0.67	1.05	1.02	3.20	3.36	0.08	0.60	0.76
1/19/2023	6.7	0.43	0.38	0.67	1.05	1.02	3.20	3.37	0.08	0.60	0.76
1/20/2023	6.9	0.42	0.38	0.67	1.06	1.00	3.20	3.37	0.08	0.62	0.77
1/21/2023	6.6	0.41	0.35	0.71	1.06	1.02	3.20	3.36	0.09	0.62	0.80
1/22/2023	6.5	0.44	0.36	0.71	1.07	1.03	3.20	3.36	0.08	0.62	0.80
1/23/2023	6.9	0.44	0.37	0.68	1.05	1.03	3.20	3.36	0.08	0.62	0.78
1/24/2023	7.1	0.46	0.39	0.68	1.06	1.03	3.20	3.37	0.08	0.62	0.80
1/25/2023	6.9	0.43	0.39	0.67	1.04	1.02	3.20	3.37	0.08	0.62	0.80
1/26/2023	7.1	0.43	0.38	0.67	1.05	1.02	3.20	3.37	0.08	0.62	0.76
1/27/2023	6.8	0.35	0.35	0.73	1.05	1.01	3.20	3.37	0.09	0.62	0.82
1/28/2023	6.5	0.55	0.36	0.67	1.06	1.01	3.20	3.38	0.08	0.62	0.77
1/29/2023	6.8	0.51	0.40	0.64	1.06	1.02	3.20	3.37	0.09	0.62	0.77
1/30/2023	7.2	0.53	0.43	0.62	1.05	1.02	3.20	3.38	0.09	0.62	0.80
1/31/2023	6.8	0.40	0.37	0.68	1.06	1.02	3.20	3.37	0.09	0.62	0.83
Avg	6.9	0.44	0.38	0.65	1.06	1.02	3.19	3.36	0.08	0.61	0.77
Min	6.5	0.35	0.33	0.56	1.03	1.00	3.18	3.34	0.07	0.60	0.73
Max	7.2	0.55	0.45	0.73	1.10	1.04	3.20	3.38	0.09	0.62	0.83



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	Calculated	TIT-1000	Calculated	Calculated
1/1/2023	50.1	2,498	0.47	1173	28.7	25.3	6.6	561	1.03	575	1748	7.3	8.00	Y
1/2/2023	40.4	3,095	0.44	1369	28.7	25.0	6.9	530	1.01	533	1902	7.2	8.00	Y
1/3/2023	39.3	3,186	0.44	1394	28.7	24.3	6.6	552	0.99	548	1942	7.3	8.00	Y
1/4/2023	39.8	3,140	0.45	1406	28.7	24.6	6.6	549	1.02	560	1966	7.4	8.00	Y
1/5/2023	39.1	3,198	0.40	1275	28.7	24.4	6.5	559	0.98	551	1826	7.3	8.00	Y
1/6/2023	40.6	3,077	0.35	1079	28.7	24.8	6.7	551	0.99	547	1626	7.4	8.00	Y
1/7/2023	55.2	2,266	0.44	994	28.7	24.5	6.7	541	0.98	533	1527	7.4	8.00	Y
1/8/2023	55.6	2,249	0.50	1131	28.7	25.1	6.9	538	1.01	541	1672	7.3	8.00	Y
1/9/2023	47.0	2,659	0.52	1371	28.7	23.6	6.8	525	1.01	527	1899	7.1	8.00	Y
1/10/2023	37.3	3,358	0.46	1541	28.7	25.0	6.5	569	1.01	572	2113	6.3	8.00	Y
1/11/2023	38.6	3,244	0.44	1412	28.7	24.6	6.5	561	0.98	553	1965	5.2	8.00	Y
1/12/2023	42.8	2,922	0.42	1216	28.7	23.5	6.5	548	0.98	540	1756	5.3	8.00	Y
1/13/2023	46.6	2,682	0.42	1134	28.7	24.1	6.5	557	0.98	549	1683	5.1	8.00	Y
1/14/2023	55.2	2,265	0.39	892	28.7	24.8	6.5	563	0.98	554	1446	5.0	8.00	Y
1/15/2023	55.4	2,258	0.39	889	28.7	24.8	6.6	552	0.99	548	1437	4.9	12.00	Y
1/16/2023	47.9	2,611	0.43	1130	28.7	24.7	6.9	532	0.99	528	1658	4.8	12.00	Y
1/17/2023	43.1	2,903	0.43	1245	28.7	24.9	6.7	545	1.01	552	1797	4.8	12.00	Y
1/18/2023	43.1	2,899	0.44	1266	28.7	24.8	6.4	575	0.99	571	1837	4.6	12.00	Y
1/19/2023	41.7	2,996	0.43	1292	28.7	24.3	6.5	561	1.00	560	1852	4.6	12.00	Y
1/20/2023	45.0	2,780	0.42	1158	28.7	25.2	6.6	562	0.27	154	1313	4.6	12.00	Y
1/21/2023	54.4	2,299	0.41	947	28.7	25.8	6.4	588	0.99	583	1530	4.6	12.00	Y
1/22/2023	55.3	2,261	0.44	990	28.6	24.0	6.3	575	0.98	566	1557	4.6	12.00	Y
1/23/2023	43.2	2,895	0.44	1274	28.7	21.1	6.7	510	1.01	516	1790	4.6	12.00	Y
1/24/2023	39.3	3,187	0.46	1459	28.7	21.5	6.6	517	0.99	513	1971	4.7	12.00	Y
1/25/2023	41.8	2,994	0.43	1278	28.7	24.8	6.7	551	0.99	546	1824	4.7	12.00	Y
1/26/2023	43.5	2,873	0.43	1224	28.7	24.5	6.8	539	1.00	538	1762	4.8	12.00	Y
1/27/2023	43.0	2,911	0.35	1032	28.7	25.2	6.5	567	0.98	558	1591	4.8	12.00	Y
1/28/2023	48.6	2,572	0.55	1412	28.7	24.4	6.3	574	0.99	570	1981	4.7	12.00	Y
1/29/2023	47.4	2,642	0.51	1354	28.7	24.4	6.6	548	0.98	536	1890	4.7	12.00	Y
1/30/2023	45.4	2,754	0.53	1455	28.7	24.6	6.8	535	0.98	527	1982	4.5	12.00	Y
1/31/2023	42.4	2,952	0.40	1180	28.7	25.0	6.4	572	0.98	560	1739	4.6	12.00	Y
Avg	45.4	2,794	0.44	1225	28.7	24.4	6.6	552	0.97	536	1761	5.6	10.19	NA
Min	37.3	2,249	0.35	889	28.6	21.1	6.3	510	0.27	154	1313	4.5	8.00	NA
Max	55.6	3,358	0.55	1541	28.7	25.8	6.9	588	1.03	583	2113	7.4	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
1/1/2023																								
1/2/2023																								
1/3/2023	0.34															0.74	0.78	0.81	0.66	0.57				0.97
1/4/2023									0.86	0.65		0.87	0.41	1.01	0.64									
1/5/2023		0.54	0.32	0.53	0.92	0.74	0.90															0.40		
1/6/2023																								
1/7/2023																								
1/8/2023																								
1/9/2023																								0.94
1/10/2023									0.89	0.69		0.82	0.51	1.04	0.68	0.67	0.79	0.66	0.76	0.67				
1/11/2023																								
1/12/2023				0.54	0.78			0.73	0.82	0.63	0.76	0.84	0.50	1.03	0.79							0.40		
1/13/2023																								
1/14/2023																								
1/15/2023																								
1/16/2023																								
1/17/2023		0.66	0.35	0.55	0.93																0.89			
1/18/2023									0.84	0.67	0.74	0.91	0.41	1.00	0.78									
1/19/2023																								
1/20/2023																								0.90
1/21/2023																								
1/22/2023																								
1/23/2023																								
1/24/2023									0.81	0.62	0.72	0.82	0.48	0.96	0.77									0.89
1/25/2023																								
1/26/2023									0.86	0.59	0.76	0.89	0.47	1.01	0.81									
1/27/2023																								
1/28/2023																								
1/29/2023																								
1/30/2023																								
1/31/2023																								
Average	0.34			0.61				0.79					0.76					0.71			0.89		0.40	0.93
Min	0.34			0.32				0.73					0.41					0.57			0.89		0.40	0.89
Max	0.34			0.93				0.90					1.04					0.81			0.89		0.40	0.97



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		4280		4440			5330		5335		5540	7125			7134
	Fraser Twp.		Hampton Twp.			Kawkawlin Twp.			Kawkawlin Met.		Merritt Twp.		Monitor Twp.			City Pinconning		Pinconning Twp.		Portsmouth	Williams Twp.			Wisner
Date	34	35	37	38	39	40	41	42	43	45	46	48	49	52	55	58	59	61	63	65	68	69	70	72
1/1/2023																								
1/2/2023																								
1/3/2023												0.48								0.37				0.46
1/4/2023																								
1/5/2023													0.87	0.71	0.51						0.61	0.65	0.63	
1/6/2023			0.45	0.63	0.54																			
1/7/2023																								
1/8/2023																								
1/9/2023																								
1/10/2023		0.67				0.80	0.68				0.53					0.47		0.27						
1/11/2023																								
1/12/2023													0.74	0.73	0.70						0.62	0.64	0.56	
1/13/2023			0.52	0.61	0.49																			
1/14/2023																								
1/15/2023																								
1/16/2023																								
1/17/2023	0.62		0.57					0.79								0.62		0.60						
1/18/2023																								
1/19/2023										0.71														
1/20/2023																								
1/21/2023																								
1/22/2023																								
1/23/2023																								
1/24/2023										0.74														
1/25/2023																								
1/26/2023																								
1/27/2023																								
1/28/2023																								
1/29/2023																								
1/30/2023																								
1/31/2023			0.46	0.72	0.62																			
Average	0.65		0.56			0.76			0.73		0.51		0.71			0.55		0.44		0.37		0.62		0.46
Min	0.62		0.45			0.68			0.71		0.48		0.51			0.47		0.27		0.37		0.56		0.46
Max	0.67		0.72			0.80			0.74		0.53		0.87			0.62		0.60		0.37		0.65		0.46



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 Commision, 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
Bay Area Water Treatment Plant

January, 2023

COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES
Tuscola	Akron	0072	0.34	1	1	0	0
BAY	Bangor Township	0390	0.61	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.79	3	3	0	0
BAY	Bay City	0470	0.76	30	40	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.71	9	10	0	0
BAY	Beaver Road Area	0517	0.89	1	1	0	0
BAY	Beaver Township	0518	0.40	2	2	0	0
BAY	Essexville	2180	0.93	4	4	0	0
BAY	Fraser Township	2465	0.65	2	2	0	0
BAY	Hampton Township	2960	0.56	10	10	0	0
BAY	Kawkawlin Township	3565	0.76	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.73	2	2	0	0
BAY	Merritt Township	4280	0.51	2	2	0	0
BAY	Monitor Township	4440	0.71	6	6	0	0
BAY	City of Pinconning	5330	0.55	2	2	0	0
BAY	Pinconning Township	5335	0.44	2	2	0	0
BAY	Portsmouth Township	5540	0.37	1	1	0	0
BAY	Williams Township	7125	0.62	6	6	0	0
Tuscola	Wisner	7134	0.46	1	1	0	0

Average Free Cl2 Residual of All Distribution Sites	0.62	mg/L
1. Total distribution samples	108	
2. Total distribution samples with detectable free cl2 residual	108	
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%	

