

Bay Area WTP

Monthly Operations Report



July, 2023

Water Systems Serial Number: 0465



Ryan Goebel

Water Plant Superintendent
Title

F-1
Classification



Mike Wagar

Operations Supervisor
Title

F-1
Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
 WSSN: 0465

July, 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	17.4	Millions of Gallons per Day
Treatment Rate, Maximum	9.8	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	12.75	PSI
Maximum Approved Flux Rate	36.25	gpd/sq.ft.
Maximum Operating Flux Rate	28.03	gpd/sq.ft.

Chemical Data

Sodium Hypochlorite on hand:	3,628	Gallons	Estimated Supply:	36.9	days
Caustic Soda on hand:	3,944	Gallons	Estimated Supply:	270.1	days
Corrosion Inhibitor on hand:	1,259	Gallons	Estimated Supply:	46.9	days
Hydrofluosilicic Acid on hand:	851	Gallons	Estimated Supply:	36.0	days
Aluminum Chlorohydrate on hand:	406	Gallons	Estimated Supply:	46.3	days
Sulfuric Acid on hand:	392	Gallons	Estimated Supply:	195.8	days
Sodium Bisulfite on hand:	676	Gallons	Estimated Supply:	233.1	days
Citric Acid on hand:	3,135	Gallons	Estimated Supply:	250.8	days
Cost of All Chemicals per Million Gallons:	106.22	Dollars			
Estimated Electrical Cost per Million Gallons:	82.61	Dollars			
Estimated Natural Gas Cost per Million Gallons:	3.76	Dollars			

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 #2 out from 7:33am on 7/18 to 4:00 pm on 7/20 for Maint.

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
7/1/2023	4.45	4.48	8.93	0.30	0.08	9.00	4.49	3.92	8.41
7/2/2023	3.09	4.45	7.53	0.24	0.08	7.86	3.86	3.66	7.52
7/3/2023	3.01	4.88	7.89	0.26	0.08	8.68	4.30	3.93	8.23
7/4/2023	4.74	5.33	10.07	0.29	0.08	9.62	4.86	4.26	9.12
7/5/2023	4.83	5.79	10.62	0.31	0.08	9.76	4.87	4.28	9.14
7/6/2023	3.09	4.21	7.30	0.26	0.08	7.68	3.89	3.47	7.36
7/7/2023	4.00	4.73	8.73	0.28	0.08	8.77	4.26	3.79	8.05
7/8/2023	3.47	4.37	7.84	0.24	0.08	7.51	3.78	3.45	7.22
7/9/2023	2.74	4.59	7.34	0.24	0.08	8.04	4.04	3.57	7.61
7/10/2023	3.61	5.44	9.06	0.30	0.08	8.98	4.50	3.98	8.48
7/11/2023	3.36	4.83	8.19	0.26	0.08	8.55	4.28	3.79	8.07
7/12/2023	2.85	6.56	9.41	0.31	0.08	8.89	4.38	3.85	8.24
7/13/2023	2.86	5.18	8.04	0.25	0.08	7.34	3.75	3.33	7.08
7/14/2023	2.98	5.10	8.08	0.29	0.08	8.11	3.99	3.52	7.50
7/15/2023	3.29	4.26	7.54	0.24	0.08	7.42	3.59	3.36	6.95
7/16/2023	3.23	3.67	6.90	0.23	0.08	7.21	3.48	3.21	6.69
7/17/2023	2.98	3.90	6.88	0.30	0.08	7.65	3.77	3.54	7.31
7/18/2023	4.58	4.51	9.09	0.29	0.08	8.31	4.16	3.61	7.77
7/19/2023	4.76	4.11	8.87	0.24	0.14	8.34	4.12	3.67	7.80
7/20/2023	3.96	3.12	7.07	0.26	0.08	8.35	4.13	3.69	7.83
7/21/2023	3.96	4.22	8.18	0.28	0.08	8.71	4.32	3.80	8.12
7/22/2023	4.87	5.03	9.90	0.26	0.08	7.88	4.02	3.56	7.57
7/23/2023	4.14	4.39	8.53	0.12	0.24	8.43	4.03	3.77	7.80
7/24/2023	4.02	4.52	8.54	0.13	0.25	8.79	4.53	3.98	8.50
7/25/2023	4.22	4.85	9.07	0.16	0.25	9.03	4.53	3.91	8.43
7/26/2023	4.17	5.34	9.51	0.15	0.24	8.78	4.39	3.87	8.25
7/27/2023	4.14	4.57	8.71	0.25	0.10	9.23	4.64	4.06	8.71
7/28/2023	4.36	5.18	9.55	0.19	0.21	9.57	4.87	4.18	9.05
7/29/2023	5.03	4.16	9.20	0.25	0.11	8.03	4.07	3.52	7.59
7/30/2023	4.68	2.87	7.55	0.27	0.08	8.00	3.87	3.60	7.47
7/31/2023	4.26	4.21	8.47	0.17	0.20	8.32	4.13	3.73	7.86
Total	119.73	142.86	262.59	7.60	3.54	260.84	129.89	115.86	245.75
Avg	3.86	4.61	8.47	0.25	0.11	8.41	4.19	3.74	7.93
Min	2.74	2.87	6.88	0.12	0.08	7.21	3.48	3.21	6.69
Max	5.03	6.56	10.62	0.31	0.25	9.76	4.87	4.28	9.14



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	
7/1/2023	18.4	7.98	0.51	0.58	0.09	0.35	Negative	Negative
7/2/2023	18.4	7.95	0.52	0.60	0.08	0.37	Negative	Negative
7/3/2023	18.6	7.90	0.46	0.60	0.08	0.37	Negative	Negative
7/4/2023	18.9	8.03	0.55	2.85	0.09	0.17	Negative	Negative
7/5/2023	19.6	7.99	0.61	0.86	0.09	0.18	Negative	Negative
7/6/2023	19.7	7.86	0.63	0.97	0.08	0.30	Negative	Negative
7/7/2023	19.4	7.93	0.68	1.13	0.08	0.26	Negative	Negative
7/8/2023	19.5	7.94	0.70	1.13	0.08	0.24	Negative	Negative
7/9/2023	19.6	7.91	0.68	1.12	0.08	0.26	Negative	Negative
7/10/2023	19.9	7.99	0.79	1.28	0.09	0.13	Negative	Negative
7/11/2023	20.1	7.94	0.68	1.50	0.08	0.17	Negative	Negative
7/12/2023	20.1	7.97	0.68	1.00	0.08	0.19	Negative	Negative
7/13/2023	20.0	7.93	0.52	0.89	0.09	0.30	Negative	Negative
7/14/2023	20.2	7.95	0.55	0.88	0.09	0.20	Negative	Negative
7/15/2023	20.5	7.98	0.81	1.96	0.09	0.15	Negative	Negative
7/16/2023	20.3	7.98	0.79	1.11	0.09	0.17	Negative	Negative
7/17/2023	20.0	7.97	0.79	7.31	0.09	0.19	Negative	Negative
7/18/2023	19.8	7.98	0.76	1.75	0.09	0.25	Negative	Negative
7/19/2023	19.7	7.91	0.48	0.71	0.09	0.33	Negative	Negative
7/20/2023	19.7	7.91	0.55	0.97	0.08	0.34	Negative	Negative
7/21/2023	19.5	7.97	0.55	0.80	0.08	0.29	Negative	Negative
7/22/2023	19.7	8.03	0.65	1.13	0.08	0.24	Negative	Negative
7/23/2023	20.3	8.00	0.52	1.51	0.08	0.29	Negative	Negative
7/24/2023	20.7	7.94	0.49	0.99	0.08	0.26	Negative	Negative
7/25/2023	20.7	7.93	0.47	0.75	0.08	0.22	Negative	Negative
7/26/2023	20.8	8.07	0.47	2.62	0.08	0.22	Negative	Negative
7/27/2023	20.9	8.09	0.45	0.80	0.09	0.30	Negative	Negative
7/28/2023	21.2	7.96	0.44	0.90	0.09	0.41	Negative	Negative
7/29/2023	21.2	8.00	0.51	0.90	0.08	0.41	Negative	Negative
7/30/2023	21.1	8.09	0.60	2.35	0.09	0.39	Negative	Negative
7/31/2023	21.2	8.11	0.57	4.18	0.08	0.36	Negative	Negative
Avg	20.0	7.97	0.59	1.49	0.08	0.27	NA	NA
Min	18.4	7.86	0.44	0.58	0.08	0.13	NA	NA
Max	21.2	8.11	0.81	7.31	0.09	0.41	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	Bacteriological	
	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	
7/1/2023	18.7	7.52	3.40	0.77		1.29	0	79	10	11	70	9.0	215	-0.72	0.91	0.40	Negative	Negative
7/2/2023	18.7	7.54	3.40	0.78		1.29	0	80	11	10	68	9.0	216	-0.71	1.10	0.40	Negative	Negative
7/3/2023	18.7	7.50	3.40	0.78		1.30	0	83	12	11	66	8.8	214	-0.74	1.09	0.42	Negative	Negative
7/4/2023	18.6	7.49	3.41	0.78		1.28	0	80	12	11	68	8.7	220	-0.76	1.09	0.44	Negative	Negative
7/5/2023	19.3	7.52	3.43	0.77	0.77	1.29	0	80	13	12	76	8.7	222	-0.66	1.08	0.47	Negative	Negative
7/6/2023	19.5	7.67	3.43	0.77		1.29	0	82	14	12	78	8.5	225	-0.49	1.17	0.48	Negative	Negative
7/7/2023	19.1	7.70	3.42	0.77		1.30	0	82	14	11	76	8.9	220	-0.49	1.27	0.47	Negative	Negative
7/8/2023	18.8	7.71	3.42	0.77		1.29	0	82	13	11	80	8.9	221	-0.45	1.18	0.45	Negative	Negative
7/9/2023	18.9	7.69	3.41	0.77		1.29	0	82	12	11	82	8.9	221	-0.46	1.09	0.43	Negative	Negative
7/10/2023	19.1	7.68	3.41	0.78	0.78	1.27	0	83	14	13	78	8.9	224	-0.49	1.08	0.49	Negative	Negative
7/11/2023	19.8	7.66	3.40	0.78		1.27	0	82	15	13	80	8.5	229	-0.48	1.15	0.52	Negative	Negative
7/12/2023	20.0	7.66	3.40	0.78		1.27	0	86	13	12	84	8.7	228	-0.44	1.08	0.44	Negative	Negative
7/13/2023	20.0	7.65	3.40	0.79		1.30	0	83	12	10	76	8.3	222	-0.51	1.20	0.41	Negative	Negative
7/14/2023	20.0	7.59	3.40	0.78		1.32	0	82	12	11	72	8.4	220	-0.59	1.09	0.43	Negative	Negative
7/15/2023	20.0	7.63	3.39	0.78		1.29	0	82	11	12	72	8.4	225	-0.56	0.92	0.42	Negative	Negative
7/16/2023	20.1	7.64	3.40	0.79		1.31	0	84	12	10	74	8.4	225	-0.52	1.20	0.40	Negative	Negative
7/17/2023	20.0	7.65	3.40	0.79	0.79	1.32	0	83	12	12	72	8.5	223	-0.53	1.00	0.44	Negative	Negative
7/18/2023	19.6	7.63	3.40	0.78		1.31	0	82	12	12	70	8.8	221	-0.58	1.00	0.44	Negative	Negative
7/19/2023	19.2	7.62	3.40	0.78		1.32	0	76	11	11	72	8.8	216	-0.61	1.00	0.44	Negative	Negative
7/20/2023	19.0	7.59	3.41	0.78		1.32	0	80	13	11	78	9.1	212	-0.59	1.18	0.46	Negative	Negative
7/21/2023	18.7	7.61	3.42	0.78		1.30	0	78	13	11	78	9.1	211	-0.59	1.18	0.47	Negative	Negative
7/22/2023	18.6	7.61	3.42	0.78		1.32	0	78	13	10	78	9.2	211	-0.59	1.30	0.45	Negative	Negative
7/23/2023	19.4	7.60	3.41	0.78		1.29	0	79	13	11	78	8.8	215	-0.58	1.18	0.46	Negative	Negative
7/24/2023	20.2	7.53	3.42	0.78	0.78	1.30	0	80	13	11	78	8.8	216	-0.63	1.18	0.46	Negative	Negative
7/25/2023	20.6	7.51	3.42	0.78		1.30	0	79	13	11	78	8.5	216	-0.64	1.18	0.46	Negative	Negative
7/26/2023	20.7	7.51	3.42	0.78		1.31	0	79	13	12	78	8.2	215	-0.64	1.08	0.48	Negative	Negative
7/27/2023	20.8	7.50	3.41	0.78		1.30	0	80	12	11	68	8.0	214	-0.70	1.09	0.44	Negative	Negative
7/28/2023	21.0	7.42	3.42	0.80		1.34	0	79	11	11	68	8.1	212	-0.78	1.00	0.42	Negative	Negative
7/29/2023	21.0	7.41	3.42	0.80		1.32	0	78	13	12	76	8.7	211	-0.75	1.08	0.49	Negative	Negative
7/30/2023	21.0	7.43	3.40	0.80		1.30	0	76	11	11	70	7.6	211	-0.77	1.00	0.44	Negative	Negative
7/31/2023	21.2	7.43	3.42	0.81	0.81	1.32	0	79	12	12	68	8.1	212	-0.76	1.00	0.46	Negative	Negative
Avg	19.7	7.58	3.41	0.78	0.78	1.30	0	81	12	11	75	8.6	218	-0.61	1.10	0.45	NA	NA
Min	18.6	7.41	3.39	0.77	0.77	1.27	0	76	10	10	66	7.6	211	-0.78	0.91	0.40	NA	NA
Max	21.2	7.71	3.43	0.81	0.81	1.34	0	86	15	13	84	9.2	229	-0.44	1.30	0.52	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
7/1/2023	0.51	0.58	3.32	0.50	0.024	0.024	96	0	0.0	0.016
7/2/2023	0.52	0.60	3.37	0.55	0.024	0.024	96	0	0.0	0.016
7/3/2023	0.46	0.60	3.28	0.50	0.024	0.024	96	0	0.0	0.016
7/4/2023	0.55	2.85	3.00	0.49	0.024	0.028	96	0	0.0	0.016
7/5/2023	0.61	0.86	3.04	0.53	0.024	0.024	96	0	0.0	0.016
7/6/2023	0.63	0.97	3.18	0.59	0.024	0.024	96	0	0.0	0.016
7/7/2023	0.68	1.13	2.90	0.61	0.024	0.024	96	0	0.0	0.016
7/8/2023	0.70	1.13	3.25	0.64	0.024	0.024	96	0	0.0	0.016
7/9/2023	0.68	1.12	4.06	0.66	0.024	0.024	96	0	0.0	0.016
7/10/2023	0.79	1.28	4.59	0.66	0.024	0.024	96	0	0.0	0.016
7/11/2023	0.68	1.50	4.65	0.64	0.024	0.025	96	0	0.0	0.017
7/12/2023	0.68	1.00	5.99	0.64	0.024	0.025	96	0	0.0	0.016
7/13/2023	0.52	0.89	3.31	0.55	0.024	0.025	96	0	0.0	0.016
7/14/2023	0.55	0.88	3.48	0.48	0.024	0.024	96	0	0.0	0.016
7/15/2023	0.81	1.96	4.17	0.60	0.024	0.025	96	0	0.0	0.016
7/16/2023	0.79	1.11	4.70	0.71	0.024	0.025	96	0	0.0	0.016
7/17/2023	0.79	7.31	5.38	0.72	0.024	0.025	96	0	0.0	0.016
7/18/2023	0.76	1.75	4.85	0.73	0.024	0.025	96	0	0.0	0.016
7/19/2023	0.48	0.71	4.33	0.59	0.024	0.024	96	0	0.0	0.016
7/20/2023	0.55	0.97	3.25	0.51	0.024	0.024	96	0	0.0	0.016
7/21/2023	0.55	0.80	5.10	0.50	0.024	0.024	96	0	0.0	0.016
7/22/2023	0.65	1.13	5.77	0.55	0.024	0.024	96	0	0.0	0.016
7/23/2023	0.52	1.51	6.57	0.57	0.024	0.024	96	0	0.0	0.016
7/24/2023	0.49	0.99	4.69	0.49	0.024	0.024	96	0	0.0	0.016
7/25/2023	0.47	0.75	2.98	0.44	0.024	0.024	96	0	0.0	0.016
7/26/2023	0.47	2.62	4.87	0.40	0.024	0.024	96	0	0.0	0.016
7/27/2023	0.45	0.80	2.46	0.42	0.024	0.024	96	0	0.0	0.016
7/28/2023	0.44	0.90	3.81	0.39	0.024	0.024	96	0	0.0	0.016
7/29/2023	0.51	0.90	4.23	0.42	0.024	0.024	96	0	0.0	0.016
7/30/2023	0.60	2.35	3.33	0.47	0.024	0.024	96	0	0.0	0.016
7/31/2023	0.57	4.18	3.74	0.58	0.024	0.024	96	0	0.0	0.016
Avg	0.59	1.49	4.05	0.55	0.024	0.024	96	0	0.0	0.016
Min	0.44	0.58	2.46	0.39	0.024	0.024	96	0	0.0	0.016
Max	0.81	7.31	6.57	0.73	0.024	0.028	96	0	0.0	0.017



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	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min	Average	Max	psi/min		
psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU	psi/min	Pass/Fail	NTU
7/1/2023	4.19	PASS	0.022	4.04	PASS	0.026	4.18	PASS	0.022	4.51	PASS	0.018	5.04	PASS	0.022	4.32	PASS	0.025	4.38	PASS	0.028	4.67	PASS	0.022					
7/2/2023	4.20	PASS	0.022	4.05	PASS	0.026	4.18	PASS	0.022	4.51	PASS	0.017	4.97	PASS	0.023	4.39	PASS	0.025	4.40	PASS	0.030	4.73	PASS	0.022					
7/3/2023	4.26	PASS	0.022	4.06	PASS	0.027	4.14	PASS	0.021	4.55	PASS	0.017	4.70	PASS	0.023	4.39	PASS	0.025	4.39	PASS	0.029	4.73	PASS	0.022					
7/4/2023	4.21	PASS	0.022	4.07	PASS	0.026	4.14	PASS	0.021	4.50	PASS	0.017	4.91	PASS	0.023	4.31	PASS	0.025	4.37	PASS	0.029	4.72	PASS	0.021					
7/5/2023	4.19	PASS	0.022	4.05	PASS	0.026	4.12	PASS	0.022	4.50	PASS	0.017	4.91	PASS	0.023	4.33	PASS	0.025	4.36	PASS	0.030	4.71	PASS	0.022					
7/6/2023	4.19	PASS	0.022	4.02	PASS	0.026	4.12	PASS	0.024	4.52	PASS	0.017	4.68	PASS	0.023	4.38	PASS	0.026	4.36	PASS	0.030	4.72	PASS	0.022					
7/7/2023	4.19	PASS	0.022	4.06	PASS	0.027	4.12	PASS	0.022	4.53	PASS	0.017	4.93	PASS	0.023	4.34	PASS	0.024	4.37	PASS	0.030	4.72	PASS	0.022					
7/8/2023	4.17	PASS	0.022	4.05	PASS	0.026	4.13	PASS	0.022	4.52	PASS	0.017	5.03	PASS	0.023	4.35	PASS	0.025	4.37	PASS	0.030	4.71	PASS	0.022					
7/9/2023	4.15	PASS	0.022	4.02	PASS	0.026	4.13	PASS	0.022	4.51	PASS	0.017	4.83	PASS	0.023	4.30	PASS	0.025	4.34	PASS	0.030	4.70	PASS	0.022					
7/10/2023	4.14	PASS	0.022	4.02	PASS	0.027	4.11	PASS	0.022	4.50	PASS	0.017	5.00	PASS	0.023	4.34	PASS	0.025	4.35	PASS	0.030	4.70	PASS	0.022					
7/11/2023	4.14	PASS	0.022	4.01	PASS	0.027	4.10	PASS	0.022	4.48	PASS	0.017	4.73	PASS	0.023	4.35	PASS	0.025	4.34	PASS	0.030	4.72	PASS	0.022					
7/12/2023	4.14	PASS	0.022	4.05	PASS	0.026	4.09	PASS	0.022	4.49	PASS	0.017	4.74	PASS	0.023	4.34	PASS	0.025	4.35	PASS	0.030	4.72	PASS	0.023					
7/13/2023	4.15	PASS	0.022	4.06	PASS	0.027	4.12	PASS	0.022	4.52	PASS	0.017	4.68	PASS	0.023	4.32	PASS	0.026	4.37	PASS	0.030	4.72	PASS	0.022					
7/14/2023	4.17	PASS	0.022	4.22	PASS	0.026	4.10	PASS	0.022	4.56	PASS	0.016	4.69	PASS	0.023	4.35	PASS	0.025	4.39	PASS	0.030	4.73	PASS	0.022					
7/15/2023	4.17	PASS	0.022	4.18	PASS	0.026	4.14	PASS	0.022	4.54	PASS	0.017	4.66	PASS	0.023	4.38	PASS	0.025	4.38	PASS	0.030	4.72	PASS	0.022					
7/16/2023	4.19	PASS	0.022	4.18	PASS	0.026	4.15	PASS	0.021	4.53	PASS	0.017	4.95	PASS	0.023	4.39	PASS	0.026	4.39	PASS	0.030	4.72	PASS	0.022					
7/17/2023	4.17	PASS	0.021	4.18	PASS	0.026	4.16	PASS	0.021	4.53	PASS	0.017	4.76	PASS	0.023	4.38	PASS	0.025	4.37	PASS	0.030	4.72	PASS	0.022					
7/18/2023	4.15	PASS	0.021	4.15	PASS	0.026	4.12	PASS	0.021	4.48	PASS	0.016	4.88	PASS	0.023	4.33	PASS	0.026	4.35	PASS	0.030	4.71	PASS	0.022					
7/19/2023	4.16	PASS	0.021		Pinning		4.09	PASS	0.021	4.53	PASS	0.016	4.75	PASS	0.023	4.35	PASS	0.024	4.35	PASS	0.030	4.71	PASS	0.022					
7/20/2023	4.15	PASS	0.021	4.50	PASS	0.026	4.08	PASS	0.021	4.52	PASS	0.017	4.79	PASS	0.022	4.35	PASS	0.024	4.35	PASS	0.029	4.70	PASS	0.021					
7/21/2023	4.14	PASS	0.022	4.41	PASS	0.026	4.11	PASS	0.021	4.49	PASS	0.016	4.94	PASS	0.022	4.32	PASS	0.025	4.34	PASS	0.029	4.69	PASS	0.021					
7/22/2023	4.15	PASS	0.022	4.29	PASS	0.026	4.11	PASS	0.021	4.51	PASS	0.016	4.76	PASS	0.022	4.31	PASS	0.024	4.34	PASS	0.029	4.70	PASS	0.022					
7/23/2023	4.16	PASS	0.021	4.23	PASS	0.027	4.10	PASS	0.021	4.52	PASS	0.017	4.66	PASS	0.023	4.30	PASS	0.025	4.34	PASS	0.030	4.70	PASS	0.022					
7/24/2023	4.14	PASS	0.021	4.22	PASS	0.026	4.10	PASS	0.021	4.61	PASS	0.016	4.69	PASS	0.023	4.30	PASS	0.024	4.32	PASS	0.029	4.70	PASS	0.022					
7/25/2023	4.11	PASS	0.021	4.21	PASS	0.026	4.09	PASS	0.021	4.59	PASS	0.017	4.83	PASS	0.023	4.50	PASS	0.024	4.32	PASS	0.030	4.70	PASS	0.022					
7/26/2023	4.11	PASS	0.021	4.20	PASS	0.026	4.09	PASS	0.021	4.57	PASS	0.016	4.78	PASS	0.023	4.46	PASS	0.024	4.34	PASS	0.030	4.70	PASS	0.022					
7/27/2023	4.12	PASS	0.022	4.19	PASS	0.026	4.08	PASS	0.021	4.54	PASS	0.017	4.64	PASS	0.023	4.42	PASS	0.025	4.34	PASS	0.030	4.69	PASS	0.022					
7/28/2023	4.13	PASS	0.021	4.19	PASS	0.026	4.09	PASS	0.021	4.56	PASS	0.017	4.74	PASS	0.023	4.42	PASS	0.025	4.35	PASS	0.030	4.69	PASS	0.022					
7/29/2023	4.17	PASS	0.022	4.21	PASS	0.026	4.11	PASS	0.021	4.58	PASS	0.017	4.96	PASS	0.023	4.45	PASS	0.024	4.35	PASS	0.030	4.71	PASS	0.021					
7/30/2023	4.17	PASS	0.021	4.23	PASS	0.026	4.15	PASS	0.021	4.59	PASS	0.017	4.86	PASS	0.023	4.45	PASS	0.024	4.38	PASS	0.030	4.72	PASS	0.022					
7/31/2023	4.18	PASS	0.021	4.23	PASS	0.026	4.12	PASS	0.021	4.60	PASS	0.017	4.68	PASS	0.023	4.44	PASS	0.024	4.40	PASS	0.030	4.72	PASS	0.021					
Avg	4.16		0.022	4.15		0.026	4.12		0.022	4.53		0.017	4.81		0.023	4.37		0.025	4.36		0.030	4.71		0.022					
Min	4.11		0.021	4.01		0.026	4.08		0.021	4.48		0.016	4.64		0.022	4.30		0.024	4.32		0.028	4.67		0.021					
Max	4.26		0.022	4.50		0.027	4.18		0.024	4.61		0.018	5.04		0.023	4.50		0.026	4.40		0.030	4.73		0.023					



*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
7/1/2023	9.0	0.35	0.18	1.16	1.42	1.29	3.33	3.40	0.09	0.64	0.77
7/2/2023	7.9	0.37	0.19	1.18	1.43	1.29	3.33	3.40	0.08	0.64	0.78
7/3/2023	8.7	0.37	0.21	1.16	1.41	1.30	3.33	3.40	0.08	0.64	0.78
7/4/2023	9.6	0.17	0.14	1.26	1.40	1.28	3.34	3.41	0.09	0.64	0.78
7/5/2023	9.8	0.18	0.09	1.34	1.38	1.29	3.35	3.43	0.09	0.64	0.77
7/6/2023	7.7	0.30	0.10	1.34	1.43	1.29	3.35	3.43	0.08	0.64	0.77
7/7/2023	8.8	0.26	0.12	1.32	1.42	1.30	3.35	3.42	0.08	0.64	0.77
7/8/2023	7.5	0.24	0.11	1.37	1.43	1.29	3.35	3.42	0.08	0.64	0.77
7/9/2023	8.0	0.26	0.10	1.34	1.43	1.29	3.35	3.41	0.08	0.64	0.77
7/10/2023	9.0	0.13	0.08	1.43	1.41	1.27	3.35	3.41	0.09	0.64	0.78
7/11/2023	8.6	0.17	0.06	1.43	1.45	1.27	3.35	3.40	0.08	0.64	0.78
7/12/2023	8.9	0.19	0.06	1.52	1.50	1.27	3.35	3.40	0.08	0.64	0.78
7/13/2023	7.3	0.30	0.11	1.44	1.50	1.30	3.35	3.40	0.09	0.64	0.79
7/14/2023	8.1	0.20	0.11	1.44	1.48	1.32	3.35	3.40	0.09	0.64	0.78
7/15/2023	7.4	0.15	0.06	1.50	1.49	1.29	3.35	3.39	0.09	0.64	0.78
7/16/2023	7.2	0.17	0.05	1.48	1.50	1.31	3.36	3.40	0.09	0.64	0.79
7/17/2023	7.6	0.19	0.05	1.42	1.50	1.32	3.36	3.40	0.09	0.64	0.79
7/18/2023	8.3	0.25	0.07	1.40	1.49	1.31	3.36	3.40	0.09	0.64	0.78
7/19/2023	8.3	0.33	0.13	1.30	1.46	1.32	3.36	3.40	0.09	0.64	0.78
7/20/2023	8.4	0.34	0.16	1.28	1.45	1.32	3.38	3.41	0.08	0.64	0.78
7/21/2023	8.7	0.29	0.15	1.30	1.43	1.30	3.38	3.42	0.08	0.64	0.78
7/22/2023	7.9	0.24	0.16	1.30	1.44	1.32	3.38	3.42	0.08	0.64	0.78
7/23/2023	8.4	0.29	0.16	1.32	1.44	1.29	3.38	3.41	0.08	0.64	0.78
7/24/2023	8.8	0.26	0.14	1.34	1.44	1.30	3.38	3.42	0.08	0.64	0.78
7/25/2023	9.0	0.22	0.13	1.38	1.44	1.30	3.38	3.42	0.08	0.64	0.78
7/26/2023	8.8	0.22	0.13	1.36	1.44	1.31	3.38	3.42	0.08	0.64	0.78
7/27/2023	9.2	0.30	0.13	1.40	1.46	1.30	3.38	3.41	0.09	0.64	0.78
7/28/2023	9.6	0.41	0.22	1.26	1.46	1.34	3.38	3.42	0.09	0.64	0.80
7/29/2023	8.0	0.41	0.27	1.20	1.43	1.32	3.38	3.42	0.08	0.64	0.80
7/30/2023	8.0	0.39	0.26	1.27	1.44	1.30	3.38	3.40	0.09	0.64	0.80
7/31/2023	8.3	0.36	0.24	1.28	1.45	1.32	3.38	3.42	0.08	0.64	0.81
Avg	8.4	0.27	0.13	1.34	1.45	1.30	3.36	3.41	0.08	0.64	0.78
Min	7.2	0.13	0.05	1.16	1.38	1.27	3.33	3.39	0.08	0.64	0.77
Max	9.8	0.41	0.27	1.52	1.50	1.34	3.38	3.43	0.09	0.64	0.81



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
7/1/2023	67.3	1,858	0.35	641	28.7	23.6	8.4	426	1.24	528	1170	18.4	4.00	Y
7/2/2023	67.3	1,858	0.37	681	28.7	23.2	7.5	472	0.96	455	1137	18.4	4.00	Y
7/3/2023	60.7	2,060	0.37	759	28.6	23.1	8.2	431	1.25	538	1297	18.6	4.00	Y
7/4/2023	57.6	2,172	0.17	364	28.9	21.3	9.1	377	1.23	466	829	18.9	4.00	Y
7/5/2023	62.0	2,018	0.18	356	28.8	23.8	9.1	394	1.23	484	840	19.6	4.00	Y
7/6/2023	62.6	1,998	0.30	593	28.7	23.6	7.4	487	1.26	615	1208	19.7	4.00	Y
7/7/2023	58.1	2,153	0.26	555	28.7	23.4	8.1	444	1.24	551	1106	19.4	4.00	Y
7/8/2023	64.8	1,931	0.24	469	28.8	24.8	7.2	508	1.25	637	1106	19.5	4.00	Y
7/9/2023	65.4	1,911	0.26	493	28.8	23.0	7.6	467	1.28	596	1088	19.6	4.00	Y
7/10/2023	61.9	2,020	0.13	260	28.7	23.1	8.5	418	1.24	519	779	19.9	4.00	Y
7/11/2023	56.1	2,228	0.17	372	28.8	23.5	8.1	444	1.25	554	925	20.1	2.00	Y
7/12/2023	55.7	2,247	0.19	433	28.8	23.4	8.2	435	1.23	534	967	20.1	2.00	Y
7/13/2023	55.1	2,272	0.30	689	28.7	22.6	7.1	497	1.27	630	1319	20.0	2.00	Y
7/14/2023	53.4	2,341	0.20	472	28.7	22.0	7.5	463	1.28	594	1065	20.2	2.00	Y
7/15/2023	62.4	2,006	0.15	294	28.7	25.2	7.0	532	1.25	663	958	20.5	2.00	Y
7/16/2023	63.0	1,986	0.17	334	28.7	25.3	6.7	552	1.28	708	1042	20.3	2.00	Y
7/17/2023	62.0	2,018	0.19	376	28.8	23.2	7.3	487	1.28	621	997	20.0	2.00	Y
7/18/2023	53.5	2,338	0.25	576	28.7	22.4	7.8	451	1.26	568	1144	19.8	4.00	Y
7/19/2023	82.5	1,515	0.33	505	28.8	22.0	7.8	446	1.29	575	1080	19.7	4.00	Y
7/20/2023	82.6	1,514	0.34	510	28.8	24.5	7.8	467	1.30	605	1115	19.7	4.00	Y
7/21/2023	82.8	1,511	0.29	445	28.8	24.3	8.1	448	1.28	571	1017	19.5	4.00	Y
7/22/2023	78.4	1,596	0.24	386	28.7	23.3	7.6	471	1.27	597	984	19.7	4.00	Y
7/23/2023	70.3	1,780	0.29	517	28.8	23.9	7.8	463	1.27	587	1105	20.3	2.00	Y
7/24/2023	68.9	1,815	0.26	469	28.8	22.9	8.5	417	1.26	525	994	20.7	2.00	Y
7/25/2023	56.8	2,203	0.22	493	28.8	22.8	8.4	419	1.28	534	1027	20.7	2.00	Y
7/26/2023	56.0	2,234	0.22	489	28.7	23.5	8.3	433	1.23	532	1021	20.8	2.00	Y
7/27/2023	56.6	2,211	0.30	664	28.8	24.2	8.7	418	1.25	524	1188	20.9	2.00	Y
7/28/2023	56.2	2,226	0.41	907	28.9	25.1	9.0	408	1.31	535	1442	21.2	2.00	Y
7/29/2023	68.1	1,836	0.41	750	28.7	24.0	7.6	475	1.28	606	1356	21.2	2.00	Y
7/30/2023	68.8	1,819	0.39	709	28.8	24.1	7.5	485	1.26	612	1322	21.1	2.00	Y
7/31/2023	63.4	1,974	0.36	717	28.8	22.7	7.9	449	1.27	570	1286	21.2	2.00	Y
Avg	63.9	1,989	0.27	525	28.8	23.5	7.9	454	1.25	569	1094	20.0	2.97	NA
Min	53.4	1,511	0.13	260	28.6	21.3	6.7	377	0.96	455	779	18.4	2.00	NA
Max	82.8	2,341	0.41	907	28.9	25.3	9.1	552	1.31	708	1442	21.2	4.00	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
7/1/2023																								
7/2/2023																								
7/3/2023																								
7/4/2023																								
7/5/2023									0.98	0.62	0.76	0.94	0.48	0.99	0.78									1.05
7/6/2023						0.58																		
7/7/2023																								
7/8/2023																								
7/9/2023																								
7/10/2023																								
7/11/2023	0.16	0.28	0.24	0.31	0.97				0.90	0.47	0.64		0.22	1.01	0.73	0.72	0.78	0.89	0.73	0.32		0.38		1.03
7/12/2023																								
7/13/2023								1.05	0.75	0.34	0.59		0.21	0.89	0.52						0.98			
7/14/2023																								
7/15/2023																								
7/16/2023																								
7/17/2023																								1.09
7/18/2023				0.31	0.96																	0.33		
7/19/2023									0.94	0.49	0.68	0.84	0.29	1.14	0.74									
7/20/2023																0.96	0.95	0.93	0.85	0.44				
7/21/2023																								
7/22/2023																								
7/23/2023																								
7/24/2023																								
7/25/2023		0.45	0.17	0.37	1.18			1.16	0.77	0.30	0.47	0.86	0.31	0.97	0.49									1.03
7/26/2023																								
7/27/2023									0.59	0.30	0.48	0.63	0.21	0.94	0.44									
7/28/2023																								
7/29/2023																								
7/30/2023																								
7/31/2023																								
Average	0.16			0.52				0.93				0.64						0.76			0.98		0.36	1.05
Min	0.16			0.17				0.58				0.21						0.32			0.98		0.33	1.03
Max	0.16			1.18				1.16				1.14						0.96			0.98		0.38	1.09



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 Cl ₂)																								
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
7/1/2023																								
7/2/2023																								
7/3/2023																								
7/4/2023																								
7/5/2023																								
7/6/2023		0.83				1.12	0.36		0.73				0.93	0.46		0.52		0.32						
7/7/2023			0.31																					
7/8/2023																								
7/9/2023																								
7/10/2023																								
7/11/2023										0.18										0.52	0.64	0.60	0.47	0.25
7/12/2023																								
7/13/2023	0.44		0.30	0.64	0.29			0.78	0.66					0.74		0.57		0.57						
7/14/2023																								
7/15/2023																								
7/16/2023																								
7/17/2023																								
7/18/2023																					0.44	0.69	0.31	
7/19/2023			0.27	0.74	0.32																			
7/20/2023																								
7/21/2023										0.25														
7/22/2023																								
7/23/2023																								
7/24/2023																								
7/25/2023													1.05	0.85										
7/26/2023																								
7/27/2023			0.33	0.73	0.42								0.91											
7/28/2023																								
7/29/2023																								
7/30/2023																								
7/31/2023																								
Average	0.64		0.44			0.75			0.70	0.22			0.82			0.55		0.45		0.52	0.53			0.25
Min	0.44		0.27			0.36			0.66	0.18			0.46			0.52		0.32		0.52	0.31			0.25
Max	0.83		0.74			1.12			0.73	0.25			1.05			0.57		0.57		0.52	0.69			0.25



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. Speedway, 106 S. Huron Rd.
- 45. Kawkawlin Restaurant, 103 S Huron Rd
- 46. John's Bar, 1476 S Tuscola Rd
- 48. Tool Shed Bar, 12 W Munger Rd
- 49. Wilder Rd Party Store, 2951 E Wilder Rd
- 52. Monitor Twp. Elevated Tank, 1611 E. Midland Rd
- 55. Auburn Fertilizer, 4640 S 7 Mile Rd
- 58. Pinconning City Hall, 208 S Manitou St

- 59. Marathon Gas Station, 511 S Mabel St
- 61. Pinconning Meter Pit, 3005 N Huron Rd
- 63. Master Meter Pit, 2865 Pinconning Rd
- 65. Ike's Welding, 50 N Finn Rd
- 68. Williams Township Hall, 1080 W Midland Rd
- 69. Pump Station, 490 W. Salzburg & 9 Mile Rd
- 70. 11 Mile Elevated Tank, 5003 S. 11 Mile Rd
- 72. Lindy's Sales, 9051 M-25

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			
				July, 2023			
COUNTY	COMMUNITY	WSSN NUMBER	DISTRIBUTION SYSTEM SAMPLES				
			avg free cl2 mg/L	NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPÉAT SAMPLES
Tuscola	Akron	0072	0.16	1	1	0	0
BAY	Bangor Township	0390	0.52	10	10	0	0
BAY	Bangor-Monitor Dist.	0400	0.93	3	3	0	0
BAY	Bay City	0470	0.64	30	40	0	0
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	0.76	9	10	0	0
BAY	Beaver Road Area	0517	0.98	1	1	0	0
BAY	Beaver Township	0518	0.36	2	2	0	0
BAY	Essexville	2180	1.05	4	4	0	0
BAY	Fraser Township	2465	0.64	2	2	0	0
BAY	Hampton Township	2960	0.44	10	10	0	0
BAY	Kawkawlin Township	3565	0.75	3	3	0	0
BAY	Kawkawlin Metro Dist.	3570	0.70	2	2	0	0
BAY	Merritt Township	4280	0.22	2	2	0	0
BAY	Monitor Township	4440	0.82	6	6	0	0
BAY	City of Pinconning	5330	0.55	2	2	0	0
BAY	Pinconning Township	5335	0.45	2	2	0	0
BAY	Portsmouth Township	5540	0.52	1	1	0	0
BAY	Williams Township	7125	0.53	6	6	0	0
Tuscola	Wisner	7134	0.25	1	1	0	0
Average Free Cl2 Residual of All Distribution Sites			0.59	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%				

