

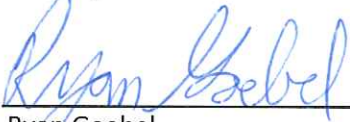
Bay Area WTP

Monthly Operations Report



January, 2018

Water Systems Serial Number: 0465



Ryan Goebel

Operations Supervisor

Title

F1

Classification



Mark Moers

Water Superintendent

Title

F1

Classification

Bay Area Water Treatment Plant

Monthly Operations Report

Supply Name: Bay Area Water System
 WSSN: 0465

Mark Moers
 Operator-in-charge

January, 2018
 Month, Year

F1
 Certification of Operator-in-charge

F1
 Water Plant Classification

Bay
 County

Treatment Rate and Membrane Data

Treatment Rate, Approved Rated Plant Capacity	17.4	Millions of Gallons per Day
Treatment Rate, Maximum	8.3	Millions of Gallons per Day
Maximum Approved Transmembrane Pressure	22	PSI
Maximum Operating Transmembrane Pressure	22	PSI

Chemical Data

Sodium Hypochlorite on hand:	4,017	Gallons	Estimated Supply:	58.9	days
Caustic Soda on hand:	1,085	Gallons	Estimated Supply:	120.0	days
Corrosion Inhibitor on hand:	1,792	Gallons	Estimated Supply:	88.6	days
Hydrofluosilicic Acid on hand:	0	Gallons	Estimated Supply:	0.0	days
Aluminum Chlorohydrate on hand:	891	Gallons	Estimated Supply:	60.0	days
Sulfuric Acid on hand:	0	Gallons	Estimated Supply:	0.0	days
Sodium Bisulfite on hand:	498	Gallons	Estimated Supply:	109.4	days
Citric Acid on hand:	1,075	Gallons	Estimated Supply:	110.2	days
Cost of All Chemicals per Million Gallons:	64.99	Dollars			
Estimated Electrical Cost per Million Gallons:	112.6	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%

Did any individual membrane skid exceed:

1.0 NTU in two consecutive measurements taken 15 minutes apart?
 If yes, attach specific filter(s) information and indicate required follow-up status. No

0.5 NTU in two consecutive measurements taken 15 minutes apart after 4 hours of operation?
 If yes, attach specific filter(s) information and indicate required follow-up status. No

1.0 NTU in two consecutive measurements taken 15 minutes apart for 3 consecutive months?
 If yes, attach specific filter(s) information and indicate required follow-up status. No

2.0 NTU in two consecutive measurements taken 15 minutes apart for 2 consecutive months?
 If yes, attach specific filter(s) information and indicate required follow-up status. No

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

- *Fluoride feed out of service all month due to room and tank damage from 8/9/17 Hydrofluosilicic Acid bulk tank leak.
- *PASS 10 (Polyaluminum Silicate Sulphate) fed all month instead of Aluminum Chlorohydrate as the coagulant in the clarifiers.



Bay Area WTP Monthly Operating Report

Date	Flows															
	Raw Water (MG)				Clarified (MG)		Wasted (MG)		Sludge (MG)		Treated (MG)		Finished Water Pumped (MG)			
	North	South	Total	Total	Total	Total	Total	Total	Total	Total	N. Euclid	Lauria Road	Total	Total		
	FIT-1000-1	FIT-1000-2	Calculated	FIT-5520-1	FIT-5520-2	FIT-5180	FIT-4000-1	FIT-4040-1	FIT-4040-2	Calculated	FIT-4040-1	FIT-4040-2	Calculated			
1/1/2018	0.00	6.83	6.83	0.27	0.00	0.04	6.45	3.01	3.19	6.19						
1/2/2018	0.00	6.87	6.87	0.26	0.00	0.05	6.72	3.33	3.50	6.83						
1/3/2018	0.00	6.91	6.91	0.28	0.00	0.05	6.95	3.20	3.36	6.56						
1/4/2018	0.00	6.90	6.90	0.26	0.00	0.04	6.72	3.31	3.43	6.73						
1/5/2018	0.00	6.87	6.87	0.26	0.00	0.04	7.25	3.55	3.55	7.10						
1/6/2018	0.00	6.83	6.83	0.26	0.00	0.04	7.54	3.37	3.52	6.89						
1/7/2018	0.00	7.39	7.39	0.26	0.00	0.05	6.99	3.60	3.78	7.37						
1/8/2018	0.00	7.95	7.95	0.28	0.00	0.04	8.35	3.81	3.93	7.74						
1/9/2018	0.00	8.12	8.12	0.26	0.00	0.05	7.47	3.52	3.68	7.20						
1/10/2018	0.00	8.12	8.12	0.25	0.00	0.07	7.77	3.60	3.74	7.34						
1/11/2018	0.00	7.37	7.37	0.23	0.00	0.07	7.42	3.47	3.67	7.13						
1/12/2018	0.00	6.88	6.88	0.22	0.00	0.09	6.83	3.23	3.41	6.64						
1/13/2018	0.00	6.39	6.39	0.18	0.00	0.12	7.02	3.29	3.44	6.73						
1/14/2018	0.00	6.78	6.78	0.21	0.00	0.10	7.53	3.86	3.69	7.56						
1/15/2018	0.00	7.71	7.71	0.24	0.00	0.07	7.41	3.38	3.56	6.93						
1/16/2018	0.00	8.45	8.45	0.25	0.00	0.05	6.93	3.37	3.50	6.86						
1/17/2018	0.00	7.23	7.23	0.26	0.00	0.07	7.49	3.49	3.64	7.13						
1/18/2018	0.00	6.47	6.47	0.25	0.00	0.06	6.57	3.22	3.35	6.57						
1/19/2018	0.00	6.54	6.54	0.27	0.00	0.05	7.42	3.55	3.41	6.96						
1/20/2018	0.00	7.07	7.07	0.26	0.00	0.05	6.68	3.27	3.26	6.53						
1/21/2018	0.00	7.19	7.19	0.25	0.00	0.05	6.62	3.26	3.28	6.53						
1/22/2018	0.00	6.75	6.75	0.24	0.00	0.06	7.01	3.36	3.34	6.71						
1/23/2018	0.00	6.82	6.82	0.25	0.00	0.06	6.80	3.21	3.18	6.39						
1/24/2018	0.00	7.01	7.01	0.25	0.00	0.06	6.54	3.09	3.07	6.16						
1/25/2018	0.00	5.15	5.15	0.22	0.00	0.05	6.20	3.09	3.05	6.14						
1/26/2018	0.00	5.72	5.72	0.24	0.00	0.06	6.50	3.15	3.13	6.29						
1/27/2018	0.00	7.32	7.32	0.26	0.00	0.06	6.58	3.15	3.15	6.29						
1/28/2018	0.00	7.24	7.24	0.24	0.00	0.06	6.68	3.25	3.27	6.52						
1/29/2018	0.00	7.01	7.01	0.24	0.00	0.06	6.64	3.15	3.13	6.28						
1/30/2018	0.00	6.46	6.46	0.26	0.00	0.05	6.81	3.25	3.22	6.47						
1/31/2018	0.00	6.24	6.24	0.24	0.00	0.07	6.31	3.17	3.15	6.33						
Total	0.00	216.62	216.62	7.68	0.00	1.82	216.20	103.55	105.59	209.14						
Avg	0.00	6.99	6.99	0.25	0.00	0.06	6.97	3.34	3.41	6.75						
Min	0.00	5.15	5.15	0.18	0.00	0.04	6.20	3.01	3.05	6.14						
Max	0.00	8.45	8.45	0.28	0.00	0.12	8.35	3.86	3.93	7.74						



Raw Water Analysis

Date	Temp	pH	Turbidity		F ⁻		Free Cl (Mem. Feed)	Bacti	
	Average	Average	Average	Maximum	Grab	Average	Total Coliform	Positive/Negative	E. coli
	°C	AIT-1000-2	NTU		mg/L	mg/L	AIT-1035-2	Lab	
1/1/2018	5.17	8.00	0.87	3.68	0.07	0.28	Negative	Negative	Negative
1/2/2018	5.05	8.01	0.83	1.15	0.09	0.25	Negative	Negative	Negative
1/3/2018	4.99	8.00	0.58	5.12	0.08	0.24	Negative	Negative	Negative
1/4/2018	4.90	7.98	0.35	0.53	0.07	0.29	Negative	Negative	Negative
1/5/2018	4.22	7.95	0.37	23.52	0.07	0.33	Negative	Negative	Negative
1/6/2018	2.68	7.97	0.41	0.52	0.08	0.34	Negative	Negative	Negative
1/7/2018	2.05	7.95	0.40	0.54	0.08	0.34	Negative	Negative	Negative
1/8/2018	2.66	7.95	0.31	0.38	0.07	0.36	Negative	Negative	Negative
1/9/2018	2.73	7.97	0.28	0.39	0.08	0.37	Negative	Negative	Negative
1/10/2018	2.37	7.97	0.91	26.09	0.08	0.36	Negative	Negative	Negative
1/11/2018	2.76	7.96	0.36	0.95	0.09	0.35	Negative	Negative	Negative
1/12/2018	2.26	7.96	0.26	0.40	0.10	0.36	Negative	Negative	Negative
1/13/2018	1.84	7.97	0.31	0.54	0.10	0.34	Negative	Negative	Negative
1/14/2018	1.64	7.96	0.73	1.10	0.10	0.34	Negative	Negative	Negative
1/15/2018	1.55	7.97	0.39	1.89	0.10	0.35	Negative	Negative	Negative
1/16/2018	1.54	7.97	0.37	0.51	0.10	0.35	Negative	Negative	Negative
1/17/2018	1.48	7.97	0.32	0.41	0.10	0.34	Negative	Negative	Negative
1/18/2018	1.47	7.97	0.29	0.82	0.07	0.33	Negative	Negative	Negative
1/19/2018	1.38	7.97	0.33	0.44	0.08	0.33	Negative	Negative	Negative
1/20/2018	1.12	7.96	0.32	0.41	0.08	0.33	Negative	Negative	Negative
1/21/2018	1.19	7.95	0.35	0.47	0.08	0.34	Negative	Negative	Negative
1/22/2018	2.41	7.94	0.32	0.66	0.08	0.34	Negative	Negative	Negative
1/23/2018	3.32	7.94	0.28	0.43	0.08	0.33	Negative	Negative	Negative
1/24/2018	3.34	7.94	1.00	1.78	0.08	0.32	Negative	Negative	Negative
1/25/2018	3.35	7.93	0.69	1.41	0.07	0.30	Negative	Negative	Negative
1/26/2018	3.29	7.92	0.40	0.62	0.08	0.32	Negative	Negative	Negative
1/27/2018	3.24	7.92	0.38	0.55	0.07	0.36	Negative	Negative	Negative
1/28/2018	3.16	7.91	0.44	1.10	0.08	0.38	Negative	Negative	Negative
1/29/2018	3.15	7.91	0.38	0.59	0.07	0.41	Negative	Negative	Negative
1/30/2018	2.90	7.92	0.39	2.53	0.07	0.40	Negative	Negative	Negative
1/31/2018	2.76	7.92	1.73	4.51	0.08	0.37	Negative	Negative	Negative
Avg	2.8	7.96	0.50	2.71	0.08	0.34	NA	NA	NA
Min	1.1	7.91	0.26	0.38	0.07	0.24	NA	NA	NA
Max	5.2	8.01	1.73	26.09	0.10	0.41	NA	NA	NA



Finished Water Analysis

Date	Temp Average °C	pH Average	Phosphate Average mg/L	Fluoride		Free Cl ₂ Average mg/L	Alkalinity (as CaCO ₃)		Chloride mg/L	Sulfate		Calcium (as CaCO ₃) mg/L	Dissolved Oxygen		Conductivity		Langelier Saturation Index	Chloride: Sulfate Mass Ratio	Larson- Skold Index	Bacti	
				Tap	Dist		Carbonate	Bicarbonate		Grab	Lab		Grab	Lab	Grab	Lab				Total	E. coli
1/1/2018	5.3	7.76	3.14	0.07		1.51	0	78	9	17	70	12.1	225	-0.82	0.53	0.48	Negative	Negative			
1/2/2018	5.2	7.78	3.12	0.08		1.50	0	84	10	17	78	11.6	250	-0.73	0.59	0.46	Negative	Negative			
1/3/2018	5.0	7.79	3.13	0.08		1.50	0	85	11	15	78	12.0	256	-0.72	0.73	0.45	Negative	Negative			
1/4/2018	5.0	7.78	3.14	0.07		1.52	0	83	10	18	76	11.3	251	-0.75	0.56	0.49	Negative	Negative			
1/5/2018	4.8	7.75	3.17	0.08		1.52	0	80	9	14	76	11.5	240	-0.80	0.64	0.42	Negative	Negative			
1/6/2018	4.7	7.73	3.18	0.08		1.50	0	80	9	15	76	11.5	239	-0.82	0.60	0.43	Negative	Negative			
1/7/2018	4.7	7.74	3.17	0.08		1.50	0	82	9	14	76	11.5	241	-0.80	0.64	0.41	Negative	Negative			
1/8/2018	4.0	7.76	3.20	0.07		1.49	0	81	9	15	78	12.4	237	-0.79	0.60	0.43	Negative	Negative			
1/9/2018	3.7	7.78	3.19	0.08		1.50	0	84	9	18	80	12.3	243	-0.76	0.50	0.46	Negative	Negative			
1/10/2018	3.1	7.78	3.15	0.08	0.07	1.49	0	82	10	18	78	12.2	229	-0.79	0.56	0.49	Negative	Negative			
1/11/2018	3.3	7.79	3.15	0.10		1.49	0	84	9	19	72	12.0	222	-0.80	0.47	0.47	Negative	Negative			
1/12/2018	3.4	7.80	3.14	0.10		1.50	0	85	9	19	72	12.1	235	-0.78	0.47	0.47	Negative	Negative			
1/13/2018	3.2	7.81	3.22	0.09		1.50	0	84	9	16	76	12.5	217	-0.76	0.56	0.43	Negative	Negative			
1/14/2018	3.0	7.80	3.22	0.10		1.51	0	83	10	16	76	11.7	237	-0.78	0.63	0.45	Negative	Negative			
1/15/2018	2.9	7.81	3.22	0.10		1.51	0	85	10	14	78	12.8	238	-0.76	0.71	0.41	Negative	Negative			
1/16/2018	2.8	7.80	3.17	0.10		1.49	0	83	9	19	78	12.0	240	-0.78	0.47	0.48	Negative	Negative			
1/17/2018	2.8	7.81	3.21	0.10		1.49	0	86	9	18	82	12.9	241	-0.73	0.50	0.45	Negative	Negative			
1/18/2018	2.6	7.82	3.15	0.07		1.49	0	80	11	18	76	12.1	233	-0.78	0.61	0.53	Negative	Negative			
1/19/2018	2.4	7.83	3.18	0.08		1.50	0	82	9	20	78	11.8	245	-0.77	0.45	0.50	Negative	Negative			
1/20/2018	2.1	7.83	3.15	0.08		1.52	0	85	10	22	76	12.8	243	-0.77	0.45	0.53	Negative	Negative			
1/21/2018	2.2	7.82	3.13	0.08		1.52	0	86	9	19	80	11.7	245	-0.75	0.47	0.46	Negative	Negative			
1/22/2018	2.1	7.82	3.17	0.08		1.52	0	85	10	19	76	13.0	246	-0.78	0.53	0.49	Negative	Negative			
1/23/2018	2.1	7.82	3.19	0.08		1.53	0	82	9	17	70	13.3	232	-0.82	0.53	0.45	Negative	Negative			
1/24/2018	2.2	7.83	3.17	0.08	0.09	1.51	0	78	9	17	74	12.5	233	-0.81	0.53	0.48	Negative	Negative			
1/25/2018	2.3	7.81	3.16	0.07		1.49	0	82	9	18	70	13.2	235	-0.84	0.50	0.47	Negative	Negative			
1/26/2018	2.3	7.75	3.15	0.08		1.49	0	82	9	18	72	12.5	238	-0.88	0.47	0.49	Negative	Negative			
1/27/2018	2.2	7.75	3.13	0.07		1.51	0	82	9	19	72	12.7	235	-0.88	0.50	0.47	Negative	Negative			
1/28/2018	1.9	7.74	3.18	0.08		1.52	0	81	9	17	70	11.0	231	-0.91	0.53	0.46	Negative	Negative			
1/29/2018	1.8	7.74	3.17	0.07		1.50	0	79	9	18	70	12.7	224	-0.93	0.50	0.49	Negative	Negative			
1/30/2018	1.8	7.73	3.20	0.07	0.07	1.50	0	78	9	19	72	12.0	233	-0.93	0.47	0.51	Negative	Negative			
1/31/2018	1.7	7.73	3.19	0.08		1.48	0	79	9	14	70	12.3	233	-0.94	0.64	0.42	Negative	Negative			
Avg	3.1	7.78	3.17	0.08	0.08	1.50	0	82	9	17	75	12.2	237	-0.81	0.55	0.47	NA	NA			
Min	1.7	7.73	3.12	0.07	0.07	1.48	0	78	9	14	70	11.0	217	-0.94	0.45	0.41	NA	NA			
Max	5.3	7.83	3.22	0.10	0.09	1.53	0	86	11	22	82	13.3	256	-0.72	0.73	0.53	NA	NA			



Turbidity

Date	Raw Water		Clarified Water	Membrane Feed Water	Combined Membrane Filtrate				Finished Average	
	Avg	Max	Avg	Avg	Avg	Max	# Samples	# > 0.3	% Exceeded	
	NTU									
	AIT-1000-1		AIT-5030-1	AIT-1035-3	AIT-4000-1				Calculated	
1/1/2018	0.87	3.68	1.55	0.67	0.014	0.014	96	0	0.0	0.011
1/2/2018	0.83	1.15	2.03	0.78	0.014	0.014	96	0	0.0	0.011
1/3/2018	0.58	5.12	5.22	1.22	0.012	0.014	96	0	0.0	0.011
1/4/2018	0.35	0.53	2.41	0.71	0.011	0.011	96	0	0.0	0.011
1/5/2018	0.37	23.52	1.51	0.49	0.012	0.014	96	0	0.0	0.012
1/6/2018	0.41	0.52	1.64	0.39	0.014	0.014	96	0	0.0	0.013
1/7/2018	0.40	0.54	1.99	0.40	0.014	0.014	96	0	0.0	0.011
1/8/2018	0.31	0.38	2.41	0.41	0.014	0.014	96	0	0.0	0.011
1/9/2018	0.28	0.39	1.62	0.34	0.014	0.014	96	0	0.0	0.011
1/10/2018	0.91	26.09	3.21	0.38	0.014	0.014	96	0	0.0	0.011
1/11/2018	0.36	0.95	3.62	0.69	0.014	0.014	96	0	0.0	0.011
1/12/2018	0.26	0.40	3.28	0.47	0.014	0.014	96	0	0.0	0.011
1/13/2018	0.31	0.54	4.20	0.58	0.014	0.014	96	0	0.0	0.011
1/14/2018	0.73	1.10	6.27	0.89	0.014	0.014	96	0	0.0	0.011
1/15/2018	0.39	1.89	7.85	1.10	0.014	0.014	96	0	0.0	0.011
1/16/2018	0.37	0.51	9.17	1.26	0.014	0.014	96	0	0.0	0.011
1/17/2018	0.32	0.41	10.80	1.52	0.014	0.014	96	0	0.0	0.011
1/18/2018	0.29	0.82	7.08	0.97	0.014	0.014	96	0	0.0	0.011
1/19/2018	0.33	0.44	6.54	0.82	0.014	0.016	96	0	0.0	0.011
1/20/2018	0.32	0.41	8.14	1.04	0.014	0.014	96	0	0.0	0.011
1/21/2018	0.35	0.47	7.71	1.16	0.014	0.014	96	0	0.0	0.011
1/22/2018	0.32	0.66	7.36	0.62	0.014	0.014	96	0	0.0	0.011
1/23/2018	0.28	0.43	3.72	0.30	0.014	0.014	96	0	0.0	0.011
1/24/2018	1.00	1.78	8.52	0.50	0.014	0.014	96	0	0.0	0.011
1/25/2018	0.69	1.41	7.43	0.93	0.015	0.024	96	0	0.0	0.011
1/26/2018	0.40	0.62	4.99	0.81	0.014	0.015	96	0	0.0	0.011
1/27/2018	0.38	0.55	6.53	1.10	0.014	0.014	96	0	0.0	0.011
1/28/2018	0.44	1.10	6.65	1.12	0.014	0.014	96	0	0.0	0.011
1/29/2018	0.38	0.59	7.13	1.17	0.014	0.014	96	0	0.0	0.011
1/30/2018	0.39	2.53	2.54	0.63	0.014	0.015	96	0	0.0	0.011
1/31/2018	1.73	4.51	7.79	1.55	0.014	0.015	96	0	0.0	0.011
Avg	0.50	2.71	5.19	0.81	0.013	0.014	96	0	0.0	0.011
Min	0.26	0.38	1.51	0.30	0.011	0.011	96	0	0.0	0.011
Max	1.73	26.09	10.80	1.55	0.015	0.024	96	0	0.0	0.013

Note: % Exceeded are 4 hr compliance periods where 50% of the samples are greater than 0.3 NTU



Date	Membrane Integrity																							
	Membrane 1			Membrane 2			Membrane 3			Membrane 4			Membrane 5			Membrane 6			Membrane 7			Membrane 8		
Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	Air Hold Start Pressure (PSI)	Air Hold Stop Pressure (PSI)	Pass / Fail	
1/1/2018	15.1	14.8	PASS	14.6	14.2	PASS	15.0	14.7	PASS	14.5	14.1	PASS	15.2	14.8	PASS	14.4	14.1	PASS	14.8	14.5	PASS	14.4	14.0	PASS
1/2/2018	15.2	14.9	PASS	14.6	14.3	PASS	15.0	14.7	PASS	14.4	14.1	PASS	15.4	15.2	PASS	14.4	14.1	PASS	15.1	14.8	PASS	14.4	14.0	PASS
1/3/2018	15.2	14.8	PASS	14.5	14.1	PASS	15.0	14.7	PASS	14.6	14.3	PASS	14.8	14.4	PASS	14.4	14.1	PASS	15.4	15.2	PASS	14.4	14.0	PASS
1/4/2018	15.2	14.9	PASS	14.6	14.3	PASS	15.1	14.7	PASS	14.5	14.1	PASS	15.2	14.8	PASS	14.4	14.0	PASS	15.1	14.7	PASS	14.4	14.0	PASS
1/5/2018	15.2	14.8	PASS	14.6	14.3	PASS	15.1	14.8	PASS	14.5	14.1	PASS	15.1	14.7	PASS	14.4	14.0	PASS	15.2	15.0	PASS	14.4	14.0	PASS
1/6/2018	15.2	15.0	PASS	14.6	14.2	PASS	15.1	14.8	PASS	14.5	14.1	PASS	15.0	14.6	PASS	14.4	14.1	PASS	15.0	14.6	PASS	14.4	14.0	PASS
1/7/2018	15.2	14.9	PASS	14.6	14.2	PASS	14.9	14.6	PASS	14.5	14.1	PASS	15.0	14.6	PASS	14.4	14.1	PASS	14.9	14.6	PASS	14.4	14.0	PASS
1/8/2018	15.1	14.8	PASS	14.6	14.2	PASS	15.0	14.7	PASS	14.5	14.1	PASS	15.4	15.2	PASS	14.4	14.0	PASS	14.8	14.5	PASS	14.4	14.1	PASS
1/9/2018	15.2	14.8	PASS	14.6	14.2	PASS	15.0	14.7	PASS	14.5	14.1	PASS	15.0	14.5	PASS	14.4	14.0	PASS	14.9	14.6	PASS	14.4	14.0	PASS
1/10/2018	15.1	14.7	PASS	14.6	14.3	PASS	14.9	14.4	PASS	14.5	14.1	PASS	14.9	14.4	PASS	14.4	14.0	PASS	14.7	14.3	PASS	14.4	14.0	PASS
1/11/2018	15.2	14.8	PASS	14.6	14.2	PASS	14.9	14.5	PASS	14.4	14.1	PASS	15.0	14.6	PASS	14.4	14.0	PASS	15.0	14.6	PASS	14.4	14.0	PASS
1/12/2018	15.2	14.8	PASS	14.6	14.4	PASS	14.9	14.5	PASS	14.6	14.3	PASS	15.5	15.2	PASS	14.3	14.0	PASS	14.7	14.4	PASS	14.4	14.0	PASS
1/13/2018	15.3	15.1	PASS	14.6	14.2	PASS	15.3	15.0	PASS	14.5	14.1	PASS	15.0	14.6	PASS	14.5	14.1	PASS	15.0	14.7	PASS	14.9	14.5	PASS
1/14/2018	15.2	14.8	PASS	14.6	14.3	PASS	15.0	14.7	PASS	14.4	14.0	PASS	14.7	14.3	PASS	14.4	14.0	PASS	15.0	14.7	PASS	14.8	14.4	PASS
1/15/2018	15.1	14.7	PASS	14.6	14.3	PASS	15.1	14.8	PASS	14.4	14.0	PASS	14.8	14.4	PASS	14.4	14.0	PASS	14.8	14.5	PASS	14.4	14.0	PASS
1/16/2018	15.1	14.7	PASS	14.6	14.3	PASS	15.0	14.6	PASS	14.7	14.4	PASS	15.0	14.7	PASS	14.4	14.0	PASS	14.8	14.5	PASS	14.4	14.0	PASS
1/17/2018	15.2	14.8	PASS	14.8	14.5	PASS	15.0	14.6	PASS	14.5	14.1	PASS	14.9	14.5	PASS	14.5	14.1	PASS	14.8	14.4	PASS	14.4	14.0	PASS
1/18/2018	15.0	14.7	PASS	14.6	14.2	PASS	15.0	14.6	PASS	14.4	14.0	PASS	14.0	13.0	PASS	14.3	13.9	PASS	14.0	14.6	PASS	14.8	14.4	PASS
1/19/2018	15.1	14.7	PASS	14.6	14.3	PASS	14.9	14.5	PASS	14.6	14.3	PASS	15.3	15.0	PASS	14.3	13.9	PASS	14.8	14.5	PASS	14.8	14.4	PASS
1/20/2018	15.1	14.8	PASS	14.6	14.3	PASS	15.1	14.7	PASS	14.5	14.1	PASS	14.9	14.5	PASS	14.3	13.9	PASS	15.0	14.6	PASS	14.4	14.0	PASS
1/21/2018	15.1	14.7	PASS	14.6	14.3	PASS	14.9	14.4	PASS	14.4	14.0	PASS	14.9	14.4	PASS	14.4	14.0	PASS	14.8	14.4	PASS	14.4	14.0	PASS
1/22/2018	15.0	14.6	PASS	14.6	14.2	PASS	14.9	14.5	PASS	14.4	14.0	PASS	15.0	14.6	PASS	14.4	14.0	PASS	14.8	14.4	PASS	14.4	14.0	PASS
1/23/2018	15.1	14.7	PASS	14.6	14.3	PASS	15.0	14.6	PASS	14.6	14.2	PASS	15.0	14.5	PASS	14.5	14.1	PASS	14.7	14.3	PASS	14.4	14.0	PASS
1/24/2018	15.2	14.9	PASS	14.6	14.3	PASS	15.5	15.3	PASS	14.5	14.1	PASS	14.9	14.5	PASS	14.3	13.9	PASS	14.8	14.3	PASS	14.4	14.0	PASS
1/25/2018	15.2	14.9	PASS	14.6	14.3	PASS	15.0	14.7	PASS	14.4	14.0	PASS	14.8	14.4	PASS	14.3	13.9	PASS	14.8	14.3	PASS	14.4	14.0	PASS
1/26/2018	15.1	14.8	PASS	14.6	14.2	PASS	15.1	14.8	PASS	14.5	14.0	PASS	14.9	14.4	PASS	14.3	13.9	PASS	14.8	14.3	PASS	14.4	14.0	PASS
1/27/2018	15.1	14.8	PASS	14.6	14.2	PASS	15.2	15.0	PASS	14.4	14.0	PASS	14.9	14.5	PASS	14.3	13.9	PASS	14.7	14.4	PASS	14.4	14.0	PASS
1/28/2018	15.1	14.8	PASS	14.6	14.2	PASS	15.4	15.2	PASS	14.4	14.0	PASS	15.3	15.1	PASS	14.3	13.9	PASS	14.8	14.4	PASS	14.4	14.0	PASS
1/29/2018	15.3	15.1	PASS	14.6	14.3	PASS	15.1	14.8	PASS	14.4	14.0	PASS	15.4	15.1	PASS	14.3	13.9	PASS	14.8	14.5	PASS	14.4	14.0	PASS
1/30/2018	15.0	14.6	PASS	14.6	14.3	PASS	15.0	14.7	PASS	14.7	14.4	PASS	15.0	14.6	PASS	14.3	13.9	PASS	14.7	14.3	PASS	14.4	14.0	PASS
1/31/2018	15.1	14.7	PASS	14.5	14.2	PASS	15.0	14.7	PASS	14.4	14.0	PASS	15.6	15.4	PASS	14.4	14.1	PASS	14.8	14.4	PASS	14.4	14.0	PASS

Integrity test performed every 24-hours



Chlorination

Date	Treated Water	RW Tank	Membrane Feed Water	Added pre-FW Tanks	Treated Water	Post FW Tanks	Added Post FW Tank
	Volume	Free Cl ₂	Free Cl ₂	Free Cl ₂	Free Cl ₂	Free Cl ₂	Free Cl ₂
	MG	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Daily	Average	Average	Average	Average	Average	Average
	FIT-4000-1	Added	AIT-1035-2	AIT-4030-1	AIT-4030-1	AIT-4050-1	Added
1/1/2018	6.4	0.00	0.28	1.19	1.61	1.51	0.00
1/2/2018	6.7	0.00	0.25	1.23	1.60	1.50	0.00
1/3/2018	7.0	0.00	0.24	1.23	1.62	1.50	0.00
1/4/2018	6.7	0.00	0.29	1.19	1.64	1.52	0.00
1/5/2018	7.3	0.00	0.33	1.15	1.63	1.52	0.00
1/6/2018	7.5	0.00	0.34	1.10	1.58	1.50	0.00
1/7/2018	7.0	0.00	0.34	1.15	1.61	1.50	0.00
1/8/2018	8.3	0.00	0.36	1.25	1.58	1.49	0.00
1/9/2018	7.5	0.00	0.37	1.20	1.60	1.50	0.00
1/10/2018	7.8	0.00	0.36	1.23	1.60	1.49	0.00
1/11/2018	7.4	0.00	0.35	1.23	1.58	1.49	0.00
1/12/2018	6.8	0.00	0.36	1.25	1.60	1.50	0.00
1/13/2018	7.0	0.00	0.34	1.27	1.60	1.50	0.00
1/14/2018	7.5	0.00	0.34	1.27	1.61	1.51	0.00
1/15/2018	7.4	0.00	0.35	1.25	1.60	1.51	0.00
1/16/2018	6.9	0.00	0.35	1.25	1.59	1.49	0.00
1/17/2018	7.5	0.00	0.34	1.28	1.60	1.49	0.00
1/18/2018	6.6	0.00	0.33	1.28	1.60	1.49	0.00
1/19/2018	7.4	0.00	0.33	1.25	1.61	1.50	0.00
1/20/2018	6.7	0.00	0.33	1.18	1.64	1.52	0.00
1/21/2018	6.6	0.00	0.34	1.15	1.63	1.52	0.00
1/22/2018	7.0	0.00	0.34	1.12	1.62	1.52	0.00
1/23/2018	6.8	0.00	0.33	1.10	1.64	1.53	0.00
1/24/2018	6.5	0.00	0.32	1.10	1.61	1.51	0.00
1/25/2018	6.2	0.00	0.30	1.14	1.59	1.49	0.00
1/26/2018	6.5	0.00	0.32	1.10	1.60	1.49	0.00
1/27/2018	6.6	0.00	0.36	1.08	1.62	1.51	0.00
1/28/2018	6.7	0.00	0.38	1.03	1.62	1.52	0.00
1/29/2018	6.6	0.00	0.41	1.03	1.63	1.50	0.00
1/30/2018	6.8	0.00	0.40	1.03	1.61	1.50	0.00
1/31/2018	6.3	0.00	0.37	1.08	1.60	1.48	0.00
Avg	7.0	0.00	0.34	1.17	1.61	1.50	0.00
Min	6.2	0.00	0.24	1.03	1.58	1.48	0.00
Max	8.3	0.00	0.41	1.28	1.64	1.53	0.00



Disinfection CT																
Pipeline CT					FW Tank CT											
Date	Whitestone Flow MGD	Travel Time Min	Residual RW mg/L	CT		FW Tank 1 Min Level ft	FW Tank 2 Min Level ft	Plant Flow MGD	Contact Time Min		Free Cl ₂ Min mg/L	CT		Temp Avg °C	Compliance	
				Calculated	Achieved				Calculated	Min		Calculated	Achieved		Calculated	Required
1/1/2018	48.5	2,578	0.28	717	21.6	21.3	6.2	6.2	474	1.49	1,423.29	706.41	1,423.29	5.2	8.00	Y
1/2/2018	42.5	2,946	0.25	724	21.0	20.7	6.8	6.8	419	1.47	1,340.04	615.95	1,340.04	5.0	8.00	Y
1/3/2018	43.0	2,908	0.24	698	21.7	21.4	6.6	6.6	450	1.47	1,359.31	661.64	1,359.31	5.0	12.00	Y
1/4/2018	43.3	2,890	0.29	844	20.9	20.6	6.7	6.7	422	1.51	1,479.48	635.81	1,479.48	4.9	12.00	Y
1/5/2018	46.0	2,721	0.33	892	19.3	19.0	6.9	6.9	369	1.31	1,374.04	481.70	1,374.04	4.2	12.00	Y
1/6/2018	57.3	2,183	0.34	753	20.1	19.8	6.9	6.9	397	1.46	1,334.21	581.59	1,334.21	2.7	12.00	Y
1/7/2018	55.8	2,243	0.34	763	17.8	17.5	7.4	7.4	328	1.46	1,244.22	480.83	1,244.22	2.1	12.00	Y
1/8/2018	49.4	2,533	0.36	924	18.0	17.7	7.7	7.7	317	1.44	1,379.24	454.91	1,379.24	2.7	12.00	Y
1/9/2018	44.0	2,842	0.37	1040	22.0	21.7	7.2	7.2	416	1.46	1,645.59	605.84	1,645.59	2.7	12.00	Y
1/10/2018	44.1	2,839	0.36	1026	22.4	22.1	7.3	7.3	416	1.46	1,631.78	605.74	1,631.78	2.4	12.00	Y
1/11/2018	42.7	2,991	0.35	1021	24.5	24.2	7.1	7.1	467	1.47	1,707.46	686.84	1,707.46	2.8	12.00	Y
1/12/2018	42.9	2,913	0.36	1034	24.0	23.7	6.6	6.6	491	1.46	1,753.81	719.37	1,753.81	2.3	12.00	Y
1/13/2018	55.3	2,262	0.34	773	24.1	23.8	6.7	6.7	488	1.48	1,493.80	720.82	1,493.80	1.8	12.00	Y
1/14/2018	54.9	2,279	0.34	778	21.4	21.1	7.6	7.6	386	1.48	1,350.75	572.92	1,350.75	1.6	12.00	Y
1/15/2018	47.7	2,624	0.35	923	22.5	22.2	6.9	6.9	442	1.48	1,579.30	656.32	1,579.30	1.5	12.00	Y
1/16/2018	42.6	2,935	0.35	1015	22.7	22.4	6.9	6.9	450	1.46	1,671.33	655.89	1,671.33	1.5	12.00	Y
1/17/2018	44.1	2,839	0.34	953	23.5	23.2	7.1	7.1	448	1.46	1,608.76	655.50	1,608.76	1.5	12.00	Y
1/18/2018	45.8	2,734	0.33	895	22.3	22.0	6.6	6.6	461	1.46	1,569.72	674.51	1,569.72	1.5	12.00	Y
1/19/2018	47.0	2,661	0.33	873	22.2	21.9	7.0	7.0	435	1.45	1,503.26	630.39	1,503.26	1.4	12.00	Y
1/20/2018	57.3	2,185	0.33	719	23.7	23.4	6.5	6.5	494	1.49	1,456.07	737.43	1,456.07	1.1	12.00	Y
1/21/2018	55.5	2,255	0.34	770	21.8	21.5	6.5	6.5	453	1.50	1,449.53	679.31	1,449.53	1.2	12.00	Y
1/22/2018	47.4	2,636	0.34	889	21.8	21.5	6.7	6.7	441	1.48	1,543.79	655.22	1,543.79	2.4	12.00	Y
1/23/2018	41.0	3,053	0.33	1021	22.8	22.6	6.4	6.4	487	1.50	1,750.86	729.49	1,750.86	3.3	12.00	Y
1/24/2018	41.1	3,041	0.32	976	24.7	24.4	6.2	6.2	548	1.49	1,793.12	816.74	1,793.12	3.3	12.00	Y
1/25/2018	41.6	3,009	0.30	901	19.4	19.1	6.1	6.1	429	1.40	1,499.79	598.99	1,499.79	3.3	12.00	Y
1/26/2018	46.5	2,692	0.32	875	22.4	22.2	6.3	6.3	486	1.46	1,583.23	708.45	1,583.23	3.3	12.00	Y
1/27/2018	57.2	2,187	0.36	782	23.4	23.1	6.3	6.3	507	1.49	1,537.92	755.61	1,537.92	3.2	12.00	Y
1/28/2018	55.5	2,255	0.38	860	22.8	22.6	6.5	6.5	477	1.50	1,574.03	714.17	1,574.03	3.2	12.00	Y
1/29/2018	47.4	2,637	0.41	1073	24.3	24.0	6.3	6.3	526	1.50	1,860.99	787.96	1,860.99	3.2	12.00	Y
1/30/2018	43.4	2,885	0.40	1145	25.2	24.9	6.5	6.5	530	1.46	1,916.92	771.80	1,916.92	2.9	12.00	Y
1/31/2018	44.0	2,844	0.37	1,052	24.1	23.8	6.3	6.3	518	1.47	1,813.78	762.26	1,813.78	2.8	12.00	Y
Avg	47.6	2,663	0.34	894	22.2	21.9	6.7	6.7	451	1.47	1,555.79	661.95	1,555.79	2.8	11.74	NA
Min	41.0	2,183	0.24	698	17.8	17.5	6.1	6.1	317	1.31	1,244.22	454.91	1,244.22	1.1	8.00	NA
Max	57.3	3,053	0.41	1,145	25.2	24.9	7.7	7.7	548	1.51	1,916.92	816.74	1,916.92	5.2	12.00	NA

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



Distribution System Monitoring
Akron (0072), Bangor Township (0390), Bangor Monitor Dist. (0400), Bay City (0470), Bay County (0485)

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

Date	Akron			Bangor Township			Bangor Monitor Dist.			Bay City						Bay County (Frankenlust, Monitor, Portsmouth)									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1/1/2018											0.97	0.61	0.46	0.91	0.38	0.98	0.39								
1/2/2018																									
1/3/2018																									
1/4/2018							1.33	1.37			0.80	0.59	0.76	0.99	0.36	0.67	0.27								
1/5/2018																									
1/6/2018																									
1/7/2018																									
1/8/2018																									
1/9/2018	0.42		1.12	1.12	1.11	1.55					0.84	0.41	0.38	0.90	0.28	0.96	0.33	1.24	1.28		1.12	0.98	1.09	1.20	
1/10/2018									1.33																
1/11/2018																									
1/12/2018																									
1/13/2018																									
1/14/2018																									
1/15/2018																									
1/16/2018	0.57		1.27	1.12	1.16	1.46					0.91	0.23	0.53	0.86	0.41	0.96	0.73	0.84	1.03						
1/17/2018																									
1/18/2018											1.14	0.84	0.71	1.36	0.91	1.20	0.63								
1/19/2018																									
1/20/2018																									
1/21/2018																									
1/22/2018			1.48	1.09							0.96		1.00	1.13											
1/23/2018																									
1/24/2018											1.13	0.77	0.86	1.02	0.71	1.32	1.07								
1/25/2018																									
1/26/2018																									
1/27/2018																									
1/28/2018																									
1/29/2018											1.03	0.74	0.86	1.06	0.80	1.28	0.96								
1/30/2018											0.95	0.96	0.90	0.97	0.65	1.24	1.04								
1/31/2018																									
Average	0.50					1.25		1.34						0.82											1.14
Min	0.42					1.09		1.33						0.23											0.84
Max	0.57					1.55		1.37						1.38											1.37



MONITORING STATION ADDRESSES

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1. William Sanders, 6116 Slocum Dr 2. TBD 3. Bangor Twp Hall, 3921 Wheeler 4. BCDWS Admin. Bldg. 3993 Patterson Rd. 5. 7-11, 3543 S. Old Kawkawlin Rd. 6. Admiral Petroleum, 314 S Euclid Ave. 7. Sequin Lumber, 3881 Euclid Ave 8. Euclid Auto, 823 N Euclid Ave 9. Monitor Pharmacy, 2981 Midland Rd 10. Little Caesars, 3475 E North Union Rd | <ul style="list-style-type: none"> 11. Number 1 Fire Station, 1401 Center Ave 12. Number 2 Fire Station, 1000 Fremont Ave 13. Skizak's Sport Shop, 807 Saizburg 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 | <ul style="list-style-type: none"> 18. Bay Valley Animal Hospital 6015 WS Saginaw Rd 19. Dore's Mobile Mart, 6183 WS Saginaw Rd 20. Pump Station #13, 6000 WS Saginaw Rd 21. TBD 22. The Char House, 432 N. Tuscola Rd 23. Krzylak's Market, 1605 Michigan Ave 24. Little Learners Daycare, 1694 Cass Ave. 25. J&T Tool & Die, 354 S Tuscola Rd |
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Distribution System Monitoring

Beaver Rd. Area (0517), Beaver Twp (0518), Essexville (2180), Fraser Twp (2465), Hampton (2960), Kawkawlin Twp (3565), Kawkawlin Metro (3570), Merritt Twp (4280)

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

Date	Beaver Rd. Area			Beaver Township			Essexville			Fraser Township			Hampton Township			Kawkawlin Twp.			Kawkawlin Metro			Merritt Township		
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
1/1/2018																								
1/2/2018																								
1/3/2018																								
1/4/2018	1.13	0.75					0.78																	
1/5/2018																								
1/6/2018																								
1/7/2018																								
1/8/2018																								
1/9/2018				0.90																				
1/10/2018																								
1/11/2018							1.26																	
1/12/2018																								
1/13/2018																								
1/14/2018																								
1/15/2018																								
1/16/2018				0.98																				
1/17/2018																								
1/18/2018	1.28		1.21																					
1/19/2018																								
1/20/2018																								
1/21/2018																								
1/22/2018							1.32																	
1/23/2018																								
1/24/2018																								
1/25/2018																								
1/26/2018																								
1/27/2018																								
1/28/2018																								
1/29/2018																								
1/30/2018																								
1/31/2018																								
Average	1.09			0.94			1.19				1.14	1.14	1.14	1.14	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	
Min	0.75			0.90			0.78				0.98	0.98	0.98	0.98	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
Max	1.28			0.98			1.32				1.26	1.26	1.26	1.26	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	



MONITORING STATION ADDRESSES

- 26. Wieland Contracting, 2443 S Mackinaw Rd
- 27. St. Bartholomew School, 1033 E Beaver Rd
- 28. Dore's Party Store, 825 E Beaver Rd
- 29. Karmen Roberts, 2515 S 11 Mile Rd
- 30. Parkview Country Store, 3 W Beaver Rd
- 31. TBD
- 32. Essexville City Hall, 1107 Woodside Ave
- 33. TBD
- 34. Fraser Elevated Tank, N. Huron Rd
- 35. Lloyd's Cabinet, 1947 N Huron Rd
- 36. TBD
- 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 Commission, 2600 E Beaver Rd
- 41. Parish Rd. Elevated Tank, West of S Huron Rd
- 42. Linwood Tile, 205 S Huron Rd
- 43. Kawkawlin Party Store, 105 Grove St
- 44. Days of Discovery Preschool, 3473 S Huron Rd
- 45. Kawkawlin Restaurant, 103 S Huron Rd
- 46. John's Bar, 1476 S Tuscola Rd
- 47. Crop Production Services, 107 S Farley Rd
- 48. Tool Shed Bar, 12 W Munger Rd

Distribution System Monitoring
Monitor Twp (4440), City of Pinconning (5330), Pinconning Twp (5335), Portsmouth Twp (5540), Williams Twp (7125), Wisner (7134)

Date	Chlorine Residual at Bacteriological Monitoring Stations (mg/L Free Cl ₂)																								
	Monitor Township				City of Pinconning				Pinconning Township				Portsmouth Twp		Williams Township				Wisner						
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
1/1/2018																									
1/2/2018																									
1/3/2018																									
1/4/2018	1.42	1.25	1.25	1.07					0.72				0.98	1.08											
1/5/2018																									
1/6/2018																									
1/7/2018																									
1/8/2018																									
1/9/2018																									
1/10/2018																									
1/11/2018	1.35	1.37	1.37	1.23	1.40	1.22			0.72	0.93			1.01						1.04	1.15	1.20	1.01			0.46
1/12/2018																									
1/13/2018																									
1/14/2018																									
1/15/2018																									
1/16/2018																									
1/17/2018																									
1/18/2018																									
1/19/2018																									
1/20/2018																									
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1/22/2018																									
1/23/2018																									
1/24/2018																									
1/25/2018																									
1/26/2018																									
1/27/2018																									
1/28/2018																									
1/29/2018																									
1/30/2018																									
1/31/2018																									
Average																									
Min																									
Max																									

MONITORING STATION ADDRESSES	
49. Traxler's Party Store, 2951 E Wilder Rd	57. H&H Bakery, 200 S Mable Rd
50. Monitor Township Hall, 2483 E Midland Rd	58. Pinconning City Hall, 208 S Manitou St
51. Pump Station #14, 2000 E Midland Rd	59. Marathon Gas Station, 511 S Mabel St
52. Midland Rd Elevated Tank, East of Mackinaw	60. TBD
53. Dale Ramseyer, 2186 E Wheeler Rd	61. Pinconning Meter Pit, 3005 N Huron Rd
54. Michigan Sugar, 1459 S Valley Center Dr	62. Keith Pickvett, 4732 Maloney Rd
55. Auburn Fertilizer, 4540 S 7 Mile Rd	63. Master Meter Pit, Pinconning @ Maloney Rd
56. Trinity Lutheran School, 20 E Saizburg Rd	64. TBD
	65. Ike's Welding, 50 N Finn Rd
	66. TBD
	67. Fruitland Market, 1646 W Midland Rd
	68. Williams Township Hall, 1080 W Midland Rd
	69. Saizburg Rd Pump Station, 9 Mile @ Saizburg
	70. 11 Mile Elevated Tank, 11 Mile @ US-10
	71. Mieske's Market, 2509 W Midland Rd
	72. Lindy's Sales, 9051 M-25
	73. TBD



Distribution System Bacteriological

Water Supplier Bacteriological Analysis Report

Name of Water Supply
Bay Area Water Treatment Plant

MICHIGAN DEPARTMENT OF PUBLIC HEALTH
Bureau of Environmental Health
Water Supplier Bacteriological Analysis Report

January, 2018

COUNTY	COMMUNITY	WSSN NUMBER	avg free cl2 mg/L	DISTRIBUTION SYSTEM SAMPLES				
				NUMBER REQUIRED	NUMBER COLLECTED	NUMBER POSITIVE	NUMBER REPEAT SAMPLES	
Tuscola	Akron	0072	0.50	1	2	0	0	
BAY	Bangor Township	0390	1.25	10	10	0	0	
BAY	Bangor-Monitor Dist.	0400	1.34	3	3	0	0	
BAY	Bay City	0470	0.82	40	61	0	0	
BAY	Bay County (Frankl./Monitor/Portsm.)	0485	1.14	9	10	0	0	
BAY	Beaver Road Area	0517	1.09	1	4	0	0	
BAY	Beaver Township	0518	0.94	2	2	0	0	
BAY	Essexville	2180	1.19	4	5	0	0	
BAY	Fraser Township	2465	1.14	2	5	0	0	
BAY	Hampton Township	2960	1.14	10	15	0	0	
BAY	Kawkawlin Township	3565	1.24	3	5	0	0	
BAY	Kawkawlin Metro Dist.	3570	0.94	2	4	0	0	
BAY	Merritt Township	4280	0.94	2	4	0	0	
BAY	Monitor Township	4440	1.29	6	10	0	0	
BAY	City of Pinconning	5330	0.94	2	4	0	0	
BAY	Pinconning Township	5335	0.98	2	5	0	0	
BAY	Portsmouth Township	5540	0.97	1	1	0	0	
BAY	Williams Township	7125	1.17	6	8	0	0	
Tuscola	Wisner	7134	0.46	1	1	0	0	

Average Free Cl2 Residual of All Distribution Sites

1.03 mg/L

- Total distribution samples
- Total distribution samples with detectable free cl2 residual
- Total distribution samples with no detectable free cl2 residual
- Total distribution samples with no detectable free cl2 residual and HPC was <500
- Total distribution samples with no detectable free cl2 residual and HPC was >500
- Percent of distribution samples with no detectable free cl2 residual
- Percent shown line #6 in previous monthly report

159

159

0

NA

NA

0.00%

0.00%

