2019 TRWA Sampling Results for Dissolved Oxygen (mg/l)			TARGET FOR CONCERN - LESS THAN 5.0 MG/L (or high values during blooms)							
Sample	**Site No.**	**River & Location Description**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	
1	TNT-01	Taunton R. Br, Center St., Berkley	12.7	10.5	8.07	7.69	8.78	8.84	9.33	
2	TNT-02	Taunton R. Br, Plain St., Taunton	12.4	11.1	7.98	7.03	8.13	8.22	9.36	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	11.9	8.96	7.14	5.3	6.57	6.65	9.57	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	12.4	9.35	7.73	7.05	8.18	8.4	9.43	
5	ASO-01	Assonet R. Bridge, Rt 79	NS	12.58	8.98	6.98	8.33	8.47	9.52	
6	SEG	Segregansett R. Br, Brook St. Dighton	10.9	11.02	7.49	7.37	7.43	7.99	4.56	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	13.6	11.98	9.36	10.61	9.63	9.72	10.07	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	13.7	12.41	6.09	8.02	8.35	8.65	9.44	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	12.9	11.39	8.84	7.3	7.86	8.20	9.19	
10	TMR-03	Three Mile R. Br, Crane St., Norton	12.8	11.28	7.91	7.96	7.99	8.33	9.37	
11	MIL-01	Mill R., Ingell St., Taunton	12.2	11.28	6.09	NS	7.43	7.88	8.91	
12	MIL-02	Mill R., Washington St., Taunton	12.7	NS	8.84	NS	8.2	8.4	9.55	
13	MIL-03	Mill R., Whittendon St., Taunton	12.7	11.11	7.91	NS	8.05	8.26	9.58	
14	FORGE	Forge R. Br, Rt 44, Raynham	11.7	11.72	8.05	8.48	8.2	8.55	9.55	
15	COT-01	Cotley R., Middleboro Ave, Taunton	11.5	11.74	8.26	9.23	8.26	8.48	9.65	
16	FBR-01	Furnace Brk., River St., E. Taunton	11.1	10.34	8.21	**2.75**	8.35	8.44	9.65	
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	13	8.17	**2.79**	7.56	**1.52**	**2.06**	**4.20**	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	12.6	11.17	7.6	6.95	6.96	7.09	8.80	
19	MAT-01	Matfield R., Br, High St., Bridgewater	CoC	11.32	8.15	7.77	8.14	8.39	9.51	
20	NEM-01	Nemasket R., Murdock St., Middleboro	12.5	8.06	6.32	**4.13**	7.43	7.88	8.78	
		NS - Not Sampled; CoC - Chain of Custody Error								
		Duplicate Sample Location		**DUP Results**						
April	COT-01	Cotley R., Middleboro Ave, Taunton	11.8							
May	SEG	Segregansett R. Br, Brook St. Dighton		11.1						
June	TNT-02	Taunton R. Br, Plain St., Taunton			8.07					
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater				5.37				
August	MAT-01	Matfield R., Br, High St., Bridgewater					8.2			
Sept.	MIL-01	Mill R., Ingell St., Taunton						6.71		
Oct.	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.							8.94	

2019 TRWA Sampling Results for Total Suspended Solids (mg/l)			TARGET FOR CONCERN - Unusually High or Non-typical Values							
Sample	**Site No.**	**River & Location Description**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	
1	TNT-01	Taunton R. Br, Center St., Berkley	4.25	3.25	3.25	6.25	14.2	12.20	**18.40**	
2	TNT-02	Taunton R. Br, Plain St., Taunton	5.5	10.5	9.25	7	5.8	5.60	6.40	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	5	4.5	6.25	4	1.6	1.80	2.40	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	7.5	9.5	10	7.25	3.8	3.40	7.20	
5	ASO-01	Assonet R. Bridge, Rt 79	NS	3	4	3.5	1.8	1.80	2.80	
6	SEG	Segregansett R. Br, Brook St. Dighton	3.25	3.5	5.75	7.5	1.8	2.20	6.00	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	3.75	6	12.25	8.5	14.2	13.80	6.00	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	2.25	4.25	3.5	6.5	5.6	4.40	4.80	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	3.75	3.5	4.25	2.75	1.8	1.40	1.20	
10	TMR-03	Three Mile R. Br, Crane St., Norton	2.5	4.75	5.5	2.75	0.2	1.00	1.20	
11	MIL-01	Mill R., Ingell St., Taunton	3	3.75	10.75	NS	2.2	2.40	5.20	
12	MIL-02	Mill R., Washington St., Taunton	3	2.75	7.75	NS	1.5	1.80	3.20	
13	MIL-03	Mill R., Whittendon St., Taunton	1.5	3	5	NS	1.8	1.40	3.20	
14	FORGE	Forge R. Br, Rt 44, Raynham	5	7.75	15	7.75	2.2	2.60	3.20	
15	COT-01	Cotley R., Middleboro Ave, Taunton	3.5	5.75	5.5	1.75	2	2.00	4.40	
16	FBR-01	Furnace Brk., River St., E. Taunton	3.25	4.5	5.75	6.25	6.2	5.40	8.80	
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	3	2.25	2.5	6.5	8.6	7.20	8.80	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	3.75	6	8.5	5.75	4.4	4.00	8.00	
19	MAT-01	Matfield R., Br, High St., Bridgewater	CC	**23.75**	10.5	10.3	6.8	7.20	5.20	
20	NEM-01	Nemasket R., Murdock St., Middleboro	2	4.75	4	4.5	2.2	2.20	2.40	
		NS - Not Sampled; CC - Chain of Custody Error								
		Duplicate Sample Location		**DUP Results**						
April	COT-01	Cotley R., Middleboro Ave, Taunton	2.75							
May	SEG	Segregansett R. Br, Brook St. Dighton		5						
June	TNT-02	Taunton R. Br, Plain St., Taunton			5.75					
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater				3.75				
August	MAT-01	Matfield R., Br, High St., Bridgewater					4			
Sept.	MIL-01	Mill R., Ingell St., Taunton						2		
Oct.	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.							2.8	

2019 TRWA Sampling Results for pH			TARGET FOR CONCERN - Outside Range 6.5 through 8.3 or 0.5 units from natural							
Sample	**Site No.**	**River & Location Description**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	
1	TNT-01	Taunton R. Br, Center St., Berkley	6.74	6.71	6.78	6.77	7.12	7.04	6.85	
2	TNT-02	Taunton R. Br, Plain St., Taunton	6.54	6.95	6.85	7.01	7.34	7.41	7.06	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	6.1	6.2	6.43	6.28	6.62	6.35	6.85	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	6.35	**3.33**	6.3	6.51	6.77	6.81	6.79	
5	ASO-01	Assonet R. Bridge, Rt 79	NS	6.18	6	6.32	5.97	6.05	6.42	
6	SEG	Segregansett R. Br, Brook St. Dighton	**3.92**	6.22	6.4	6.39	6.63	6.62	6.63	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	6.23	6.32	6.33	4.77	6.24	6.29	6.72	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	6.52	6.67	6.81	6.92	7	7.14	6.82	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	6.68	6.73	6.59	6.91	6.65	6.61	6.95	
10	TMR-03	Three Mile R. Br, Crane St., Norton	6.7	6.46	6.53	6.8	6.98	6.72	6.77	
11	MIL-01	Mill R., Ingell St., Taunton	6.49	6.39	6.22	NS	6.56	6.66	6.76	
12	MIL-02	Mill R., Washington St., Taunton	6.5	6.62	6.45	NS	6.8	6.71	6.74	
13	MIL-03	Mill R., Whittendon St., Taunton	6.58	6.3	6.7	NS	6.45	6.58	6.39	
14	FORGE	Forge R. Br, Rt 44, Raynham	6.11	6.42	6.35	6.07	6.68	6.82	6.64	
15	COT-01	Cotley R., Middleboro Ave, Taunton	5.82	6.17	6.19	6.04	6.54	6.59	6.74	
16	FBR-01	Furnace Brk., River St., E. Taunton	6.45	6.32	6.51	6.47	6.76	6.83	6.86	
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	6.16	6.15	5.81	6.35	5.83	5.64	6.31	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	5.85	6.51	5.95	6.3	**3.47**	**3.61**	**3.33**	
19	MAT-01	Matfield R., Br, High St., Bridgewater	CC	**2.73**	**3.64**	**3.44**	**3.35**	**3.90**	6.60	
20	NEM-01	Nemasket R., Murdock St., Middleboro	6.53	5.11	6.28	4.89	6.45	6.37	6.20	
		NS - Not Sampled; CC - Chain of Custody Error								
		Duplicate Sample Location		**DUP Results**						
April	COT-01	Cotley R., Middleboro Ave, Taunton	5.76							
May	SEG	Segregansett R. Br, Brook St. Dighton		6.48						
June	TNT-02	Taunton R. Br, Plain St., Taunton			5.99					
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater				6.08				
August	MAT-01	Matfield R., Br, High St., Bridgewater					5.4			
Sept.	MIL-01	Mill R., Ingell St., Taunton						6.32		
Oct.	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.							6.23	

2019 TRWA Sampling Results for Temperature (Degrees C)			TARGET FOR CONCERN - Greater Than 28.3°C							
Sample	**Site No.**	**River & Location Description**	**April**	**May**	**June**	**July**	**August**	**Sept.**	**Oct.**	
1	TNT-01	Taunton R. Br, Center St., Berkley	10.8	11.7	18.3	20.1	23	21.6	17.4	
2	TNT-02	Taunton R. Br, Plain St., Taunton	11	11.8	18.8	21.3	22.8	21.5	17.2	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	9.6	12.3	19.2	21.2	21.3	20.7	17.0	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	9.6	12.1	19	21	21.7	20.4	17.1	
5	ASO-01	Assonet R. Bridge, Rt 79	NS	11.4	19.1	21.5	22.1	21.0	17.2	
6	SEG	Segregansett R. Br, Brook St. Dighton	12.4	11.5	16.7	18.5	19.1	18.6	16.1	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	9	10	14.3	14.5	18.3	18.1	15.5	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	10.2	11.3	18.7	20.7	22.3	21.1	17.1	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	9.9	10.5	18.5	20.8	20.7	19.8	16.8	
10	TMR-03	Three Mile R. Br, Crane St., Norton	9.9	10.6	18.8	20	20.8	20.2	16.8	
11	MIL-01	Mill R., Ingell St., Taunton	11.3	11.6	18.7	NS	22.3	21.3	16.4	
12	MIL-02	Mill R., Washington St., Taunton	10.6	NS	18.5	NS	22.2	20.9	16.6	
13	MIL-03	Mill R., Whittendon St., Taunton	10.4	11.4	18.8	NS	21.3	20.6	16.7	
14	FORGE	Forge R. Br, Rt 44, Raynham	12	10.2	18.6	19.2	20.9	20.1	16.3	
15	COT-01	Cotley R., Middleboro Ave, Taunton	12.2	9.5	18.1	17.7	20.1	19.7	16.0	
16	FBR-01	Furnace Brk., River St., E. Taunton	12.6	12.1	18.3	18.1	20.6	19.9	16.1	
17	TBR-01	Tomson Brk., Highstone St., E. Taunton	11.2	9	16.5	21	19.4	19.0	16.3	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	10.8	10.7	18.5	20.3	21.9	21.1	17.8	
19	MAT-01	Matfield R., Br, High St., Bridgewater	CC	10.9	18.4	19.3	20.9	20.2	17.4	
20	NEM-01	Nemasket R., Murdock St., Middleboro	9.9	12.8	18.9	20.8	21.9	21.3	17.4	
		NS - Not Sampled; CC - Chain of Custody Error								
		Duplicate Sample Location		**DUP Results***						
April	COT-01	Cotley R., Middleboro Ave, Taunton	11.6							
May	SEG	Segregansett R. Br, Brook St. Dighton		11.5						
June	TNT-02	Taunton R. Br, Plain St., Taunton			18.4					
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater				21.2				
August	MAT-01	Matfield R., Br, High St., Bridgewater					21			
Sept.	MIL-01	Mill R., Ingell St., Taunton						21		
Oct.	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.							17.5	
				*** Measurement by duplicate thermometer, two team members, or two readings**						

Sample Analysis, Collection Method - Standard Operating Procedures (SOP) and Instream Target Values

Samples Veolia Taunton WWTF Lab

http://www.veolianorthamerica.com/en/taunton-mass

Samples Are Collected by Trained TRWA Volunteers Using An SOP Jointly Developed by TRWA and Veolia North America

http://savethetaunton.org/wp/wp-content/uploads/2019/03/TRWA-Sampling-SOP-3-16-2019.pdf

Sampling Locations Map May Be Found At:

https://www.google.com/maps/d/edit?mid=zhnIdTn8bGeU.kyo7mjqZ3YFQ&usp=sharing

Water Quality Protection **Insteam Target Values**:

Dissolved Oxygen (DO)

Water Quality Target Value for Dissolved Oxygen (DO) is greater than 5.0 mg/l to meet the Massachusetts Class B Water Quality Standards for warm water freshwater fisheries and the SB DO criterion for marine waters.

Total Suspended Solids (TSS)

Total Suspended Solids (TSS) is a measure of particulates in the water. There is no Water Quality Standard for TSS. We are looking for unusually high values that may indicate an erosion or poor stormwater management problem upstream. High levels of TSS can smother aquatic life and destroy benthic habitat.

pH

The Water Quality Standard for pH in class B waters is 6.5 through 8.3 and not more than 0.5 units outside the natural range. Wetlands, swamps, bogs, pine forest tend to have natural low pH. Field pH strips are sometimes used to identify extremes of pH such as that caused by a spill of industrial waste. Reported results are from samples analyized by Veolia Taunton WWTP lab using a calibrated pH meter.

Temperature (Degrees C)

The Water Quality Standard for Temperature in class B waters is that it shall not exceed 83°F (28.3°C) in warm water fisheries. The Temperature in class SB waters shall not exceed 85°F (29°C) nor a maximum daily mean of 80°F (26.7°C). Natural seasonal and daily variations that are necessary to protect existing and designated uses shall be maintained. There shall be no changes from natural background conditions that would impair any use assigned to this Class, including those conditions necessary to protect normal species diversity, successful migration, reproductive functions or growth of aquatic organisms. TRWA sampling locations TNT-01 and TNT-02 are in class SB waters all others are in class B waters.