

2026 TRWA Sampling Results for Nitrate (mg/l)			TARGET FOR CONCERN - GREATER THAN 0.4 MG/L								
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	AVG**	
1	TNT-01	Taunton R. Br, Center St., Berkley	0.38	0.41	0.38	0.21	0.15	0.19		0.27	
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.38	0.41	0.42	0.32	0.31	0.51		0.39	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.37	0.36	0.59	0.39	0.40	0.87		0.52	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.65	0.61	1.14	0.71	0.81	1.61		0.98	
5	ASO-01	Assonet R. Bridge, Rt 79	0.09	0.05	0.05	0.05	0.06	0.06		0.05	
6	SEG	Segregansett R. Br, Brook St. Dighton	0.27	0.17	3.82	0.26	0.21	0.31		0.95	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.62	0.70	1.14	0.23	0.45	0.47		0.60	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.40	0.39	0.49	0.25	0.30	0.49		0.38	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.37	0.35	0.56	0.31	0.41	1.97		0.72	
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.33	0.22	0.23	0.10	0.15	0.21		0.18	
11	MIL-01	Mill R., Ingell St., Taunton	0.29	0.13	NR	0.29	0.33	0.55		0.32	
12	MIL-02	Mill R., Washington St., Taunton	0.19	0.11	NR	0.15	0.16	0.19		0.15	
13	MIL-03	Mill R., Whittendon St., Taunton	0.18	0.08	0.09	0.09	0.09	0.11		0.09	
14	FORGE	Forge R. Br, Rt 44, Raynham	0.27	0.20	0.22	0.19	0.24	0.32		0.23	
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.18	0.10	0.13	0.16	0.17	0.18		0.15	
16	FBR-01	Furnace Brk., River St., Raynham	0.13	0.11	0.18	0.20	0.20	0.30		0.20	
17	CHU-01	Taunton River Br, Church St., Raynham	0.38	0.41	0.55	0.37	0.40	0.84		0.51	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.18	0.21	0.83	0.58	0.50	2.42		0.91	
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.99	0.74	1.14	1.53	1.42	1.68		1.30	
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.13	0.27	0.34	0.34	0.40	0.25		0.32	
Month	Site No.	Duplicate and Blank Locations by Month	DUP #	Duplicate Results		BL #	Blank Results		** Avg is for the water quality months		
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.14		BL 1	<0.0500		of May through October used in		
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.61		BL 2	<0.0500		NPDES permit TN limitation averaging.		
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	0.11		BL 1	<0.0500				
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	0.35		BL 2	<0.0500		NR = Not Reported, no sample		
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.42		BL 1	<0.0500				
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	0.05		BL 2	<0.0500				
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1	0.46		BL 1	<0.0500				
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2	0.27		BL 2	<0.0500				
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.31		BL 1	<0.0500				
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2	1.42		BL 2	<0.0500				
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.20		BL 1	<0.0500				
	MIL-01	Mill R., Ingell St., Taunton	DUP 2	0.56		BL 2	<0.0500				
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1			BL 1					
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2			BL 2					

2026 TRWA Sampling Results for Total Phosphorus (mg/l)			TARGET FOR CONCERN - GREATER THAN 0.100 mg/l								
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	AVG**	
1	TNT-01	Taunton R. Br, Center St., Berkley	0.035	0.094	0.109	0.167	0.147	0.133		0.13	
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.032	0.047	0.066	0.081	0.148	0.185		0.11	
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.032	0.052	0.072	0.075	0.089	0.046		0.07	
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.046	0.058	0.095	0.083	0.102	0.056		0.08	
5	ASO-01	Assonet R. Bridge, Rt 79	0.018	0.044	0.064	0.135	0.111	0.047		0.08	
6	SEG	Segregansett R. Br, Brook St. Dighton	0.016	0.029	0.057	0.088	0.105	0.069		0.07	
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.014	0.041	0.031	0.171	0.139	0.105		0.10	
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.016	0.022	0.028	0.040	0.149	0.179		0.08	
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.018	0.022	0.038	0.029	0.031	0.027		0.03	
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.015	0.021	0.021	0.027	0.024	0.026		0.02	
11	MIL-01	Mill R., Ingell St., Taunton	0.019	0.026	NR	0.073	0.108	0.062		0.07	
12	MIL-02	Mill R., Washington St., Taunton	0.017	0.029	NR	0.023	0.020	0.021		0.02	
13	MIL-03	Mill R., Whittendon St., Taunton	0.016	0.028	0.018	0.030	0.017	0.017		0.02	
14	FORGE	Forge R. Br, Rt 44, Raynham	0.029	0.072	0.100	0.089	0.090	0.072		0.08	
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.011	0.019	0.024	0.032	0.030	0.027		0.03	
16	FBR-01	Furnace Brk., River St., Raynham	0.016	0.044	0.065	0.080	0.043	0.043		0.05	
17	CHU-01	Taunton River Br, Church St., Raynham	0.034	0.051	0.062	0.068	0.080	0.039		0.06	
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.034	0.049	0.156	0.106	0.145	0.139		0.12	
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.048	0.064	0.080	0.068	0.058	0.049		0.06	
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.019	0.043	0.051	0.046	0.072	0.021		0.05	
		Duplicate and Blank Locations by Month		Duplicate Results		Blank Results		** Avg is for the water quality months			
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.013		BL 1	<0.0106		of May through October (season AVG).		
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.013		BL 2	<0.0106		NPDES permits use TP mo. avg. limits.		
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	0.044		BL 1	<0.0106		Based on observations TRWA considers		
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	0.027		BL 2	<0.0106		a season AVG ≥ 0.05 mg/l is concern.		
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.074		BL 1	<0.0106				
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	0.065		BL 2	<0.0106				
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1	0.078		BL 1	<0.0106				
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2	0.088		BL 2	<0.0106				
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	0.149		BL 1	<0.0106				
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2	0.063		BL 2	<0.0106				
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	0.027		BL 1	<0.0106				
	MIL-01	Mill R., Ingell St., Taunton	DUP 2	0.086		BL 2	<0.0106				
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1			BL 1					
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2			BL 2					

2026 TRWA Sampling Results for Enterococci (CFU/100 ml)			TARGET FOR CONCERN - GREATER THAN 35 CFU/100 ML (Class B & SB waters)							
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.	90 Day Geo Mean Jun to Aug
1	TNT-01	Taunton R. Br, Center St., Berkley (SB Cr. 104)	36	16	49	52	98	11.0		63
2	TNT-02	Taunton R. Br, Plain St., Taunton (SB Cr. 104)	38	20	99	75	98	58.3		90
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	13	29	46	31	63	7.5		45
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	21	179	150	156	359	22.6		203
5	ASO-01	Assonet R. Bridge, Rt 79	8	38	78	41	74	4.1		62
6	SEG	Segregansett R. Br, Brook St. Dighton	5	23	579	243	771	93.3		477
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	40	99	579	75	988	34.1		350
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	7	16	138	269	223	42.0		202
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	15	291	219	246	135	20.1		194
10	TMR-03	Three Mile R. Br, Crane St., Norton	10	22	394	171	148	24.9		215
11	MIL-01	Mill R., Ingell St., Taunton	19	41	NR	173	121	133.3		145
12	MIL-02	Mill R., Washington St., Taunton	16	39	NR	292	259	25.9		275
13	MIL-03	Mill R., Whittendon St., Taunton	11	17	461	327	425	48.7		400
14	FORGE	Forge R. Br, Rt 44, Raynham	18	74	299	309	256	51.2		287
15	COT-01	Cotley R., Middleboro Ave, Taunton	15	172	365	379	146	24.3		272
16	FBR-01	Furnace Brk., River St., Raynham	15	2420	93	243	323	47.1		194
17	CHU-01	Taunton River Br, Church St., Raynham	84	42	85	85	187	44.8		110
18	TWH-01	Town R., Br, Hayward St., Bridgewater	32	1414	101	292	173	12.2		172
19	MAT-01	Matfield R., Br, High St., Bridgewater	43	37	411	226	275	14.8		294
20	NEM-01	Nemasket R., Murdock St., Middleboro	3	21	186	41	63	13.4		78
		Duplicate and Blank Locations by Month		Duplicate Results	Blank Results			** Geometric Mean for any 90 days		
April	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	26		BL 1	<1	shall not exceed 35 CFU/100ml.		
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	41		BL 2	<1	No more than 10% of all samples		
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	2420		BL 1	1	collected shall exceed 130 CFU/100ml.		
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	461		BL 2	<1	Standard effective 11/12/2021.		
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	132		BL 1	<1			
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2	96		BL 2	<1	Results reported as 2000 were		
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1	10		BL 1	<1	reported as > 2000 colonies by		
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2	487		BL 2	<1	Microbac Lab (max that could be		
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1	121		BL 1	<1	measured). 2000 used to calculate		
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2	173		BL 2	<1	the geometric mean.		
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1	37		BL 1	<1			
	MIL-01	Mill R., Ingell St., Taunton	DUP 2	96		BL 2	<1			
Oct.	NEM-01	Nemasket R., Murdock St., Middleboro	DUP 1			BL 1				
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2			BL 2				

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Sample Analysis, Collection Method - Standard Operating Procedures (SOP) and Instream Target Values									
Samples Are Analyzed by:									
Microbac, Dayville, CT					A MassDEP Certified Laboratory				
https://www.microbac.com/our-laboratories/dayville-connecticut/#services									
Samples Are Collected by Trained TRWA Volunteers Using An SOP Jointly Developed by TRWA and Veolia North America see TRWA website:									
https://savethetaunton.org/water-quality-monitoring/									
Sampling Locations Map May Be Found At:									
https://www.google.com/maps/d/edit?mid=zhnldTn8bGeU.kyo7mqjZ3YFQ&usp=sharing									
Water Quality Protection Insteam Target Values:									
Nitrate									
Water Quality Target Values for Nitrogen are expressed as <u>Total</u> Nitrogen = Nitrate + Organic Nitrogen + Ammonia + Nitrite									
Like most ennironmental groups TRWA measures only Nitrate because of its low cost (\$12 / sample) and low									
reporting level (0.05 mg/l). The MassDEP in a large number of TMDLs for estuaries has recommended <u>TN</u> values									
between 0.39 to 0.5 mg/l for estuaries <u>without eel grass</u> in good to fair condition. The Cape Cod Commission									
recommends values 0.34 to 0.39 while the Buzzards Bay Project/ Massachusetts Coastal Zone Management									
recommends 0.39 to 0.44 mg/l. After consultation with MassDEP and Rhode Island DEM (downstream state)									
EPA selected a TN target estuary value of 0.45 mg/l as a medium target for the Taunton River.									
Because Nitrate is <u>only a portion of Total Nitrogen</u> we consider Nitrate values > 0.4 mg/l high for both the tidal									
portion of the estuary below Route 24 at the Raynham/Taunton Bridge and above because of transport concerns									
to the salt waters of the estuary.									
Total Phosphorus									
The Water Quality Target Values for Total Phosphorus are 0.100 mg/l for freshwaters in free flowing streams and 0.050 mg/l									
in lakes, ponds, impoundments and streams tributary to them. These Targets are from the EPA Suggested Criteria									
for Water sometimes called the Gold Book.									
Based on obseration and photos of the shallow effluent dominated freshwaters of the watershed TRWA									
considers average TP greater than 0.05 mg/l a value for concern in addition to single month samples > 0.100 mg/l.									
Bacteria - Enterococci									
The Water Quality Target Value used for enterococci is 35 colony-forming units (CFU) per 100 ml as a geometric mean for any 90 day									
or smaller interval and no more than 10% of all samples collected within that interval shall exceed the									
statistical threshold value of 130 CFU/100ml. (Standard effective 11/12/2021).									
These targets are from the MA Water Quality Standards 314 CMR for Class B and SB waters.									