

2025 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	0.43	0.23							
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.41	0.23							
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.42	0.26							
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.57	0.34							
5	ASO-01	Assonet R. Bridge, Rt 79	0.06	0.06							
6	SEG	Segregansett R. Br, Brook St. Dighton	0.16	0.16							
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.33	0.44							
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.16	0.19							
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.26	0.19							
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.20	0.14							
11	MIL-01	Mill R., Ingell St., Taunton	0.08	0.07							
12	MIL-02	Mill R., Washington St., Taunton	0.07	0.05							
13	MIL-03	Mill R., Whittendon St., Taunton	0.06	0.05							
14	FORGE	Forge R. Br, Rt 44, Raynham	0.25	0.15							
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.11	0.11							
16	FBR-01	Furnace Brk., River St., Raynham	0.14	0.14							
17	CHU-01	Taunton River Br, Church St., Raynham	0.46	0.30							
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.17	0.14							
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.88	0.55							
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.23	0.23							
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	0.12	BL 1	<0.0500	of May through October used in				
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.35	BL 2	<0.0500	NPDES permit TN limitation averaging.				
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	0.14	BL 1	<0.0500					
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	0.19	BL 2	<0.0500	NR = Not Reported, no sample				
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1		BL 1						
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2		BL 2						
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1		BL 1						
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2		BL 2						
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1		BL 1						
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2		BL 2						
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1		BL 1						
	MIL-01	Mill R., Ingell St., Taunton	DUP 2		BL 2						
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						

2025 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	0.069	0.036							
2	TNT-02	Taunton R. Br, Plain St., Taunton	0.037	0.071							
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	0.037	0.065							
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	0.043	0.066							
5	ASO-01	Assonet R. Bridge, Rt 79	0.018	0.036							
6	SEG	Segregansett R. Br, Brook St. Dighton	0.015	0.034							
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	0.013	0.031							
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	0.024	0.064							
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	0.019	0.035							
10	TMR-03	Three Mile R. Br, Crane St., Norton	0.015	0.029							
11	MIL-01	Mill R., Ingell St., Taunton	0.021	0.038							
12	MIL-02	Mill R., Washington St., Taunton	0.020	0.031							
13	MIL-03	Mill R., Whittendon St., Taunton	0.019	0.031							
14	FORGE	Forge R. Br, Rt 44, Raynham	0.029	0.069							
15	COT-01	Cotley R., Middleboro Ave, Taunton	0.011	0.018							
16	FBR-01	Furnace Brk., River St., Raynham	0.016	0.048							
17	CHU-01	Taunton River Br, Church St., Raynham	0.039	0.068							
18	TWH-01	Town R., Br, Hayward St., Bridgewater	0.039	0.066							
19	MAT-01	Matfield R., Br, High St., Bridgewater	0.050	0.072							
20	NEM-01	Nemasket R., Murdock St., Middleboro	0.033	0.044							
		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	0.011		BL 1	<0.0106	of May through October (season AVG).			
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	0.014		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	0.033		BL 2	<0.0106	a season AVG ≥ 0.05 mg/l is concern.			
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1					
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2			BL 2					
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1			BL 1					
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2			BL 2					
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1					
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2			BL 2					
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1			BL 1					
	MIL-01	Mill R., Ingell St., Taunton	DUP 2			BL 2					
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					

2025 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 July to Sept
1	TNT-01	Taunton R. Br, Center St., Berkley (SB Cr. 104)	80	50						
2	TNT-02	Taunton R. Br, Plain St., Taunton (SB Cr. 104)	30	90						
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	50	100						
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	100	150						
5	ASO-01	Assonet R. Bridge, Rt 79	10	20						
6	SEG	Segregansett R. Br, Brook St. Dighton	20	40						
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	140	40						
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	40	10						
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	10	40						
10	TMR-03	Three Mile R. Br, Crane St., Norton	30	90						
11	MIL-01	Mill R., Ingell St., Taunton	40	10						
12	MIL-02	Mill R., Washington St., Taunton	90	10						
13	MIL-03	Mill R., Whittendon St., Taunton	120	10						
14	FORGE	Forge R. Br, Rt 44, Raynham	30	50						
15	COT-01	Cotley R., Middleboro Ave, Taunton	10	50						
16	FBR-01	Furnace Brk., River St., Raynham	30	30						
17	CHU-01	Taunton River Br, Church St., Raynham	90	30						
18	TWH-01	Town R., Br, Hayward St., Bridgewater	50	50						
19	MAT-01	Matfield R., Br, High St., Bridgewater	200	80						
20	NEM-01	Nemasket R., Murdock St., Middleboro	30	10						
		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	10		BL 1	<10	shall not exceed 35 CFU/100ml.		
	BER-01	Chuckamucksett Brk. Br, Berkley St.	DUP 2	80		BL 2	<10	No more than 10% of all samples		
May	FBR-01	Furnace Brk., River St., Raynham	DUP 1	10		BL 1	<10	collected shall exceed 130 CFU/100ml.		
	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	DUP 2	20		BL 2	<10	Standard effective 11/12/2021.		
June	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1				
	ASO-01	Assonet R. Bridge, Rt 79	DUP 2			BL 2		Results reported as 2000 were		
July	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	DUP 1			BL 1		reported as > 2000 colonies by		
	SEG	Segregansett R. Br, Brook St. Dighton	DUP 2			BL 2		Microbac Lab (max that could be		
August	TNT-02	Taunton R. Br, Plain St., Taunton	DUP 1			BL 1		measured). 2000 used to calculate		
	MAT-01	Matfield R., Br, High St., Bridgewater	DUP 2			BL 2		the geometric mean.		
Sept.	COT-01	Cotley R., Middleboro Ave, Taunton	DUP 1			BL 1				
	MIL-01	Mill R., Ingell St., Taunton	DUP 2			BL 2				
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				

2025 TRWA Sampling - Date and Time of Sample Collection, AM											
Sampling Date			4/8/2025	5/13/2025							
Flow Taunton River USGS Guage Near Bridgewater MA - 01108000			675	578						cubic feet per second (CFS)	
Trend of Previous Days River Flow (falling or rising)			falling	falling							
Sample	Site No.	River & Location Description	April	May	June	July	August	Sept.	Oct.		
1	TNT-01	Taunton R. Br, Center St., Berkley	6:34	6:36							
2	TNT-02	Taunton R. Br, Plain St., Taunton	7:13	7:03							
3	BED-01/TNT-03	Taunton R., Rt 18, Bedford St., Bridgewater	7:00	7:00							
4	CHE-01/TNT-04	Taunton R. Br, Cherry St., Bridgewater	6:30	6:30							
5	ASO-01	Assonet R. Bridge, Rt 79	6:30	6:30							
6	SEG	Segregansett R. Br, Brook St. Dighton	7:08	7:05							
7	BER-01	Chuckamucksett Brk. Br, Berkley St.	7:24	7:17							
8	TMR-01	Three Mile R. Br, Rt 138, Somerset Ave.	6:56	6:48							
9	TMR-02	Three Mile R. Br, Rt 44, Cohannet St.	7:18	7:00							
10	TMR-03	Three Mile R. Br, Crane St., Norton	6:55	6:30							
11	MIL-01	Mill R., Ingell St., Taunton	8:09	7:36							
12	MIL-02	Mill R., Washington St., Taunton	7:55	7:25							
13	MIL-03	Mill R., Whittendon St., Taunton	7:33	7:10							
14	FORGE	Forge R. Br, Rt 44, Raynham	7:12	7:17							
15	COT-01	Cotley R., Middleboro Ave, Taunton	7:38	7:56							
16	FBR-01	Furnace Brk., River St., Raynham	7:00	7:08							
17	CHU-01	Taunton River Br, Church St., Raynham	7:18	7:30							
18	TWH-01	Town R., Br, Hayward St., Bridgewater	6:30	6:30							
19	MAT-01	Matfield R., Br, High St., Bridgewater	6:45	6:45							
20	NEM-01	Nemasket R., Murdock St., Middleboro	6:00	6:00							
		Duplicate Sample Location	DUP #	DUP Results Not Applicable to Time Reporting							
				Same as Sample Collection Date and Time for Site							
		NR - Not Reported, no sample									
		See Below for Sample Analysis, Collection Method - Standard Operating Procedures (SOP) and Instream Target Values Basis									

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.									