

Taunton River Estuary Loading Summary and Permit Reissuance Status							4/19/2017		
WWTF	Design Q (MGD)	TN Limit lbs/d (mg/L)	Est. Load lbs/day**	Expiration Prev. Per.	End of Public Notice	Reissuance Date	Time Reissuance Overdue	Months Since Pub. Not. End	TP Limit mg/L****
Brockton	18	450 (3)***	361	5/11/2010	4/20/2015	1/11/2017	6 years, 8 months	1 year, 8 months	0.101
Taunton	8.4	210 (3)	189	3/27/2006	6/17/2013	4/10/2015	9 years (appealed*)	1 year, 9 months	none
Somerset	4.2	130 (3.7)	117	9/30/2008			8 years, 6 months	N/A	none
Mansfield/Norton/Foxboro	3.14	131 (5)	98	9/30/2008	3/29/2013	9/11/2014	6 years	1 year, 6 months	0.17
Middleborough	2.16	90 (5)	74	11/3/2008	11/16/2013	5/5/2014	5 years, 6 months	6 months	0.15
Bridgewater	1.44	60 (5)	52	12/30/2008	9/8/2014	9/30/2016	7 years, 9 months**	2 years	0.2
Smaller Facilities * (at current loads)			46				* Taunton lost appeal 5/3/2016 on all grounds all requirements of City's permit are in effect.		
							** Bridgewater appealed 11/17/2016 (10 days late). Appeal voluntarily dismissed 4/07/2017.		
Total			937				Bridgewater and EPA reached a settlement. Permit is in effect.		
Fall River*****	30.9	2062 (8)		12/7/2005			11 years, 4 months		none
TP - Somerset and Fall River located in the lower higher salinity portion of the estuary will likely only have TN limits and not have TP limitations.									
* Smaller Facilities Include - MCI Bridgewater 0.55 MGD (TN - 33 lb/d); Dighton-Rehoboth Schools 0.01 MGD (1 lb/d); Wheaton College 0.12 MGD (3 lb/d); Oak Point 0.18 MGD (8 lb/d); and East Bridgewater H.S. 0.01 MGD (1 lb/d)									
** Estuary Load based on plants discharging at 90% of flow limit during summer and an attenuation factor from 83 to 96% for all plants except Taunton and Somerset which discharge directly to the estuary with no attenuation reduction.									
***Nominal concentrations (3, 3.7, 5, and 8 mg/L) used to calculate mass (lbs/day) limit at design flow. The permits use a mass lbs/day limit which at the projected 0.9% of design summer flow allow somewhat higher concentrations of 3.33 mg/L, 4.12mg/L, 5.55, and 8.89 mg/L.									
****EPA Gold Book Total Phosphorus freshwater instream criterion is 0.100 mg/L. No TP Limit for Taunton because TRWA sampling indicated instream TP levels up and downstream of WWTP in 2010 and 2011 were close to the criterion of 0.100 mg/L and tidal influence.									
*****Fall River being lower in the estuary and having greater dilution has less nitrogen loading impact than the upstream WWTPs despite its larger flow. The city is still abating CSOs in the Northern part of the city and completing integrated facilities planning which will include phased nitrogen removal based on doing the most environmentally beneficial work first. After completion of a facilities plan that considers all options a schedule for phased nitrogen removal concurrent with continued CSO abatement implementation may be included in a phased permit , enforcement compliance letter, or Administrative Order. An initial mass TN target based on 8 mg/l (2062 lbs/day limit) appears likely.									