

Water Quality Sampling 2016



Taunton River
Middleboro – 8-31-2016

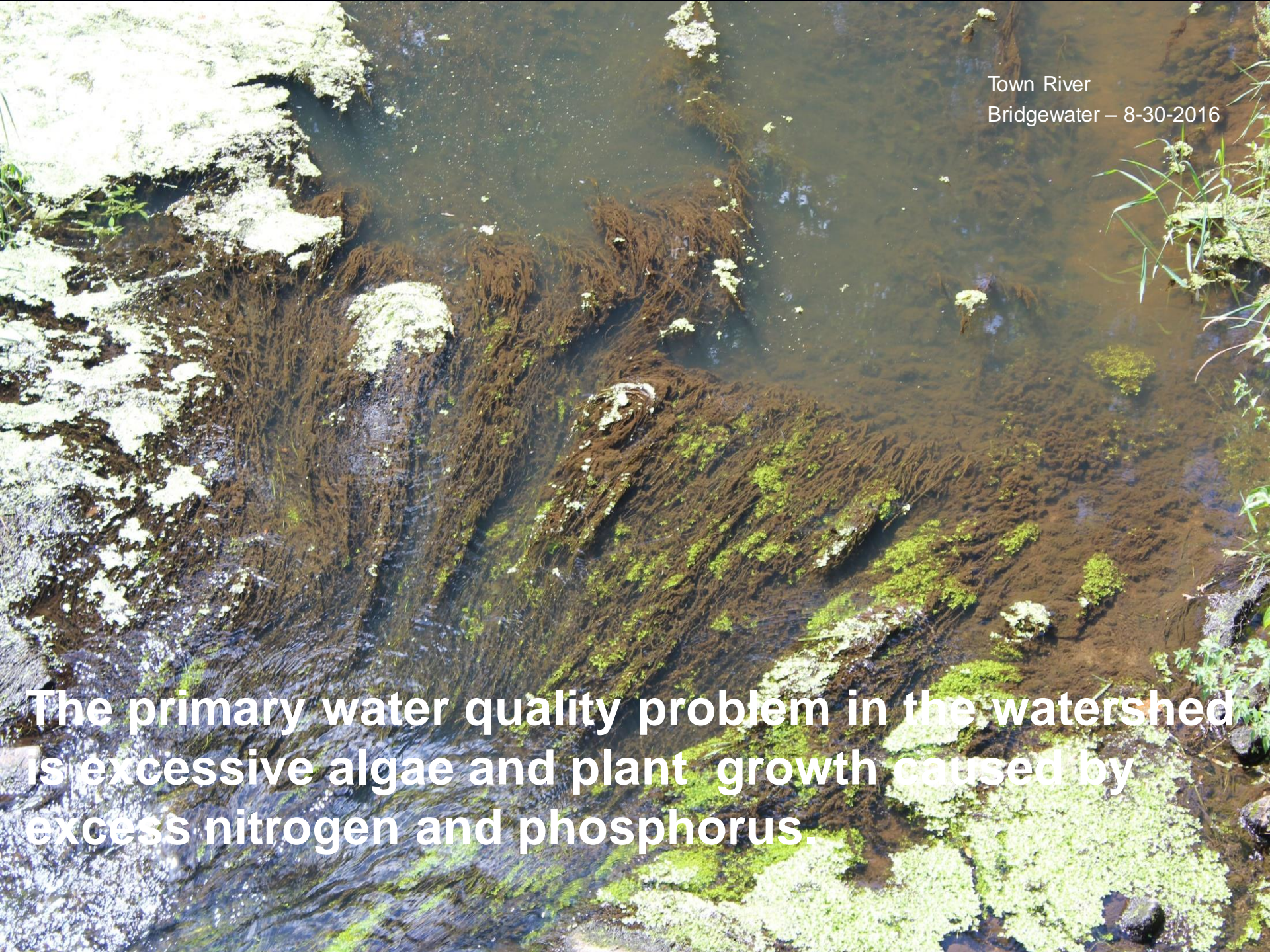


Taunton River Watershed Alliance, Inc.

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savethetaunton.org



Town River
Bridgewater – 8-30-2016

The primary water quality problem in the watershed is excessive algae and plant growth caused by excess nitrogen and phosphorus.

2016 Nitrate and TP Highlights

- Levels of Nitrate (NO₃) and Total Phosphorus (TP) increased throughout the sampling season
- Like the last detailed study (2004 to 2006): TRWA sampling documents a nitrogen overloaded river + estuary system
- Nitrate level range (June to Sept.) and (x 0.4 mg/l target):
 - Main stem Taunton 0.76 – 5.7 mg/l (2 to 14 x target level)
 - Town River Bridgewater 0.79 – 13 mg/l (2 to 32 x target)
 - Matfield River Bridgewater 1.9 – 2 mg/l (5 times target)
 - Three Mile Rt. 44 Taunton 1.6 – 8 mg/l (4 to 20 x target)
- Total Phosphorus approached or exceeded the 0.100 mg/l target in August and September at six locations often TP is utilized by algae/plants so quickly photos are helpful to identify nutrient caused problems in freshwaters.

Sampling Volunteers

STREET/BRIDGE LOCATION	RIVER	VOLUNTEERS
CENTER ST., BERKLEY BRIDGE *	TAUNTON RIVER	Barbara and Bob Hunt, Bill Ferry
PLAIN ST., TAUNTON	TAUNTON RIVER	Barbara and Bob Hunt, Bill Ferry
BEDFORD ST., RT. 18, BRIDGEWATER	TAUNTON RIVER	Robert Sullivan, and Sandra Kelley
CHERRY ST., BRIDGEWATER	TAUNTON RIVER	Robert Sullivan, Sandra Kelley
ROUTE 79, ASSONET R., BRIDGE	ASSONET RIVER	Tracy Brett
SEGREGANSETT RIVER BRIDGE, BROOK ST., DIGHTON *	SEGREGANSETT RIVER	Joe Gales
CHICKAMUCKETSETT BROOK BRIDGE, BERKLEY ST., BERKLEY *	CHICKAMUCKETT BROOK	Alex Houtzager
SOMERSET AVE., ROUTE 138 TAUNTON	THREE MILE	Barbara and Bob Hunt, Bill Ferry
COHANNET ST., ROUTE 44 TAUNTON	THREE MILE	Cheryl Graham, and Jen O'Keefe
CRANE ST., NORTON	THREE MILE	Cheryl and Jen
INGELL ST., TAUNTON	MILL RIVER	Brad Gonyer, Mark Riendeau, and Jackson Kiker
WASHINGTON ST., TAUNTON	MILL RIVER	Brad, Mark, and Jackson
WHITTENDON ST., TAUNTON	MILL RIVER	Brad, Mark, and Jackson
ROUTE 44, RAYNHAM	FORGE RIVER	Steve Silva, Craig Heffernan, and Renee Holt
MIDDLEBOROUGH AVE., TAUNTON	COTLEY RIVER	Steve, Craig, and Renee
RIVER ST., E. TAUNTON *	FURNACE BROOK	Kit and Bill VanMeter
HIGHSTONE ST., E. TAUNTON	THOMPSON BROOK	Kit and Bill VanMeter
HAYWARD ST., BRIDGEWATER	TOWN RIVER	Rachel Thibeault, Greg Lott, Lewis Gibson, and June Metcalf
HIGH ST., BRIDGEWATER	MATFIELD RIVER	Rachel, Greg, Lewis, and June

**19 locations
23 volunteers**

**4 teams could
use back-up
Samplers***

**There are 3 – 5
locations we
would add for
nitrate and TP
if we had
volunteers who
lived in the
area.**

**If interested in
helping call
TRWA office or
come to our
late winter
training.**

Why We Sample

- Give the watershed a monthly check-up the second Tuesday each month (March to November)
- Document baseline river conditions so we can track changes
- Support upgrading WWTPs as needed (esp. TN + TP limitations and up + downstream river monitoring)
- Locate non-WWTP caused problem areas where there is a need to look for sources of pollution
- Provide our volunteers a chance to appreciate the River in the peaceful early morning and be part of an important effort

Questions ?

Matfield River
E. Bridgewater – 7-22-2016

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