

Water Quality Sampling 2017



Town River
Bridgewater
Haywood St. - 9-18-2017

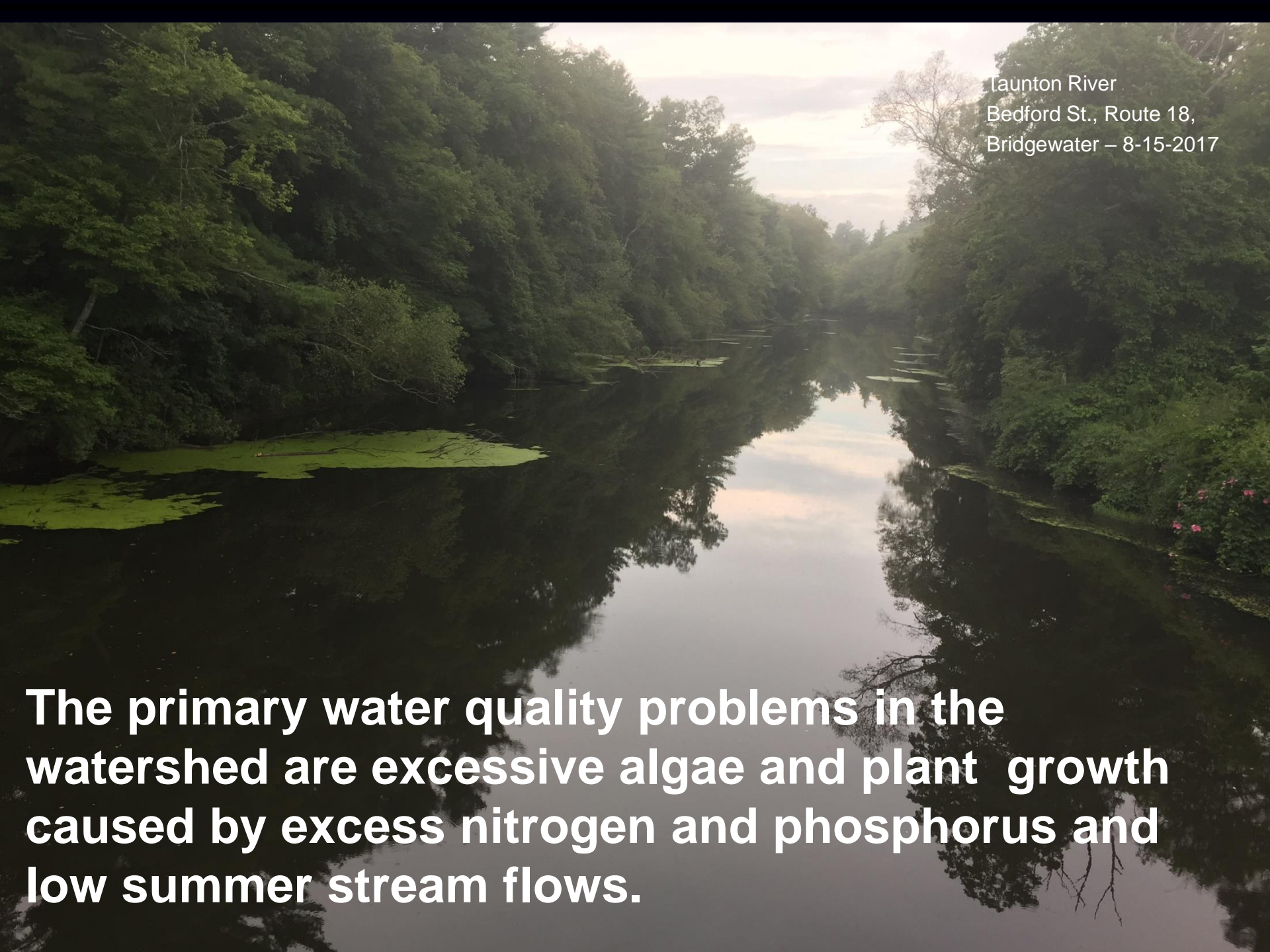


Taunton River Watershed Alliance, Inc.

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savethetaunton.org



Taunton River
Bedford St., Route 18,
Bridgewater – 8-15-2017

The primary water quality problems in the watershed are excessive algae and plant growth caused by excess nitrogen and phosphorus and low summer stream flows.

2017 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 (July to Oct.) and (x 0.4 mg/l target):
 - Main stem Taunton 0.77 – 2.5 mg/l (2 to **6 x** target level)
 - Town River Bridgewater 1.09 – 6 mg/l (3 to **15 x** target)
 - Matfield River Bridgewater 1.18 – 2.43 mg/l (3 to **6 x** target)
 - Three Mile Rt. 44 Taunton 0.87 – 7.32 mg/l (2 to **18 x** target)
 - Nemasket Middleboro 1.08 – 2.85 mg/l (3 to **7 x** target)
- Total Phosphorus approached or exceeded the 0.100 mg/l target in August and September at five 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	Anne and Jeff Morse, and Tracy Brett
SEGREGANSETT RIVER BRIDGE, BROOK ST., DIGHTON *	SEGREGANSETT RIVER	Joe Gales, and Jen O'Keefe
CHICKAMUCKETSETT BROOK BRIDGE, BERKLEY ST., BERKLEY *	CHICKAMUCKETSETT 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
CRANE ST., NORTON	THREE MILE	Cheryl Graham
INGELL ST., TAUNTON	MILL RIVER	Brad Gonyer, and Mark Riendeau
WASHINGTON ST., TAUNTON	MILL RIVER	Brad, and Mark
WHITTENDON ST., TAUNTON	MILL RIVER	Brad, and Mark
ROUTE 44, RAYNHAM	FORGE RIVER	Steve Silva, and Craig Heffernan
MIDDLEBOROUGH AVE., TAUNTON	COTLEY RIVER	Steve, and Craig
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, Natalie Johnson, Tara Hulme
HIGH ST., BRIDGEWATER	MATFIELD RIVER	Rachel, Natalie, Tara
MURDOCK ST. MIDDLEBORO	NEMASKET RIVER	Gabrielle and Eric Olson, Anne-Marie Burke and Edward Hathaway

**20 locations
28 volunteers**

**Back-up and
New Samplers
are Welcome**

**Training for
New Volunteers
is the last
Saturday in
February. If
interested in
helping call the
TRWA office or
come to our
February
training. We will
send an email
in early February
confirming the
training.**

Why We Sample

- Give the watershed a monthly check-up the second Tuesday each month (March to November)
- Support upgrading WWTPs as needed (esp. TN + TP limitations and up + downstream river monitoring)
- Support better stormwater management especially for new and redevelopment projects
- 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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