Municipality/Organization:	City of Taunton
EPA NPDES Permit Number:	MAR041164
MassDEP Transmittal Number:	W-041086
Annual Report Number Year 14 & Reporting Period:	April 1, 2016 – March 31, 2017

# NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2017)

#### **Part I. General Information**

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#### Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: X	redened Com	glie
······································	Anthony Abreau FREE	ERICJ. CORNAGLIA
Title:	Assistant Commissioner	DPW COMN
Date:		4/28/17

### Part II. Self-Assessment

The City of Taunton has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

**Part II.B.1-6** Any Provisions of Part II.B.1-6 that have not been met are detailed in Part III below.

# Part III. Summary of Minimum Control Measures

### 1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	<b>Progress on Goal(s) – Permit Year 14</b> (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
1-1 Revised	Conduct an Annual Household Hazardous Waste Collection Day	Taunton Pollution Prevention Control Facility	<ul> <li>Spring '04/05/06/07</li> <li>Sponsor an annual household hazardous waste collection day.</li> <li>Continue to develop the Taunton Recycling Information brochure and distribute to all Taunton residents via a mass mailing on an annual basis.</li> <li>Track the number of brochures distributed to residences via the mass mailing each year.</li> <li>Annually send a press release advertising the event to the <i>Taunton Gazette</i> and track whether or not it was published.</li> <li>Advertise the event on the local cable access station on an annual basis.</li> <li>Maintain and update the City's web page.</li> <li>Track the amounts and types of wasted collected each year.</li> <li>Track the number of Taunton vehicles that participate in the event each year.</li> </ul>	<ul> <li>The hazardous waste collection day was held on April 30, 2016.</li> <li>The event was advertised in the <i>Taunton Gazette</i>, local cable access station, and a flyer was distributed in the yearly DPW mailing for trash collection days. In addition, a flyer was</li> </ul>	<ul> <li>The hazardous waste collection day is scheduled for Saturday, April 29, 2017.</li> <li>Continue to offer a medical hazardous waste day throughout the year. The most recent collection was held on March 25, 2017, and was sponsored by the Taunton Board of Health.</li> <li>Continue to distribute recycling bins to residents.</li> </ul>
1-2 Revised	Distribute a Series of Educational Flyers	Taunton Conservation Commission Taunton Environmental Awareness Movement Taunton Municipal Lighting Plant Taunton Webmaster	<ul> <li>Summer '06/07</li> <li>Track number of flyers distributed each year.</li> <li>Post the electronic version of the flyer on the City's web page.</li> </ul>	<ul> <li>Continued to make the educational flyers titled "After the Storm" available at the Department of Public Works and the Planning and Conservation Department.</li> <li>Continued to display a poster titled "Stormwater and the Construction Industry" in the Department of Public Works and the Planning and Conservation Department.</li> <li>An electronic version of the flyers and posters are available on the City of Taunton's web page.</li> </ul>	• The City of Taunton will continue to make the "After the Storm" flyer and will continue to display the "Stormwater and the Construction Industry" poster at the Department of Public Works and the Planning and Conservation Department.
1-3	Post Educational Information on the City's Stormwater Web Site	Taunton Department of Public Works Taunton Conservation Commission Taunton Planning Department Taunton Ecology Awareness Movement	<ul> <li>Spring '03 – Winter '07/08</li> <li>Post stormwater related information on the Green Page web site.</li> <li>Update web site regularly.</li> </ul>	• The City of Taunton has created a webpage dedicated to stormwater. The page includes links to environmental websites and provides a variety of environmental information related to	<ul> <li>The City of Taunton will continue to maintain the stormwater web page.</li> <li>The City of Taunton will revise the stormwater webpage to include the stormwater ordinance, a link</li> </ul>

Revised			Post stormwater related information on the City of Taunton web site.	<ul> <li>stormwater. The City of Taunton continued to maintain the stormwater web page.</li> <li>The City of Taunton is part of the Southeastern Massachusetts Stormwater Collaborative (SEMSWC) which was established in 2014. The SEMSWC has a website with general information about stormwater and links to other websites.</li> </ul>	to the Southeastern Massachusetts Stormwater Collaborative's webpage.
1-4 Revised	Promoting Water Conservation Practices for Homeowners	Taunton Water Department	<ul> <li>Spring '03 – Winter '07/08</li> <li>Maintain and update the water conservation tips on the Water Department's web page.</li> <li>Continue to use local newspapers to promote water conservation and track the number of water conservation reminders that are placed in newspapers each year.</li> </ul>	• Water conservation tips have been included on the stormwater webpage.	• The City of Taunton will continue to maintain the stormwater web page including water conservation tips.
1-5	Participate in the Annual Ecology Fair (No longer taking place)	Taunton Conservation Commission Taunton Department of Public Works Taunton Water Department Taunton Ecology Awareness Movement	<ul> <li>Fall '04, Fall '06, Spring '07</li> <li>Submit a press release advertising the event to the <i>Taunton Gazette</i>.</li> <li>Track the number and type of educational materials that are distributed by the City's Storm Water Quality Booth at the Taunton Ecology Fair.</li> </ul>	• There was no ecology fair or Taunton River Festival held in Year 14.	• Research similar events in area to distribute educational materials.
Revised					

#### 1a. Additions

There are no additions at this time.

Pooper scooper laws/regulations/prohibitions are being investigated for use in the City.

# 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
2-1 Revised	Public Access to SWMP & Receipts of Comments	Taunton Superintendent of Public Works Taunton Webmaster	<ul> <li>Summer '03</li> <li>Make draft SWMP available to the public and conduct public comment period.</li> <li>Finalize SWMP.</li> <li>Summer '04 – Winter '07/08</li> <li>Make the Final SWMP accessible to the public via the City's public library, Craig C. Sherman Operations Center, and web page.</li> </ul>	The Final SWMP is located at the City's public library.	• Activities to proceed as noted in the Measurable Goal's column.
2-2 Revised	Co-sponsor Annual River Cleanup	Taunton Conservation Commission         Taunton Department of Public Works         Taunton Ecology Awareness         Movement	<ul> <li>Fall '03/04/05/06/07</li> <li>Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers.</li> <li>Track the number of cleanup volunteers and supporting businesses.</li> <li>Track the number/length of streams cleaned.</li> <li>Track the quantity and types of waste collected as a result of the cleanup event.</li> <li>Indicate the water quality at the river cleanup sites.</li> </ul>	<ul> <li>A Citywide Cleanup occurred on April 30, 2016.</li> <li>Press releases were sent to local newspapers.</li> <li>The number of volunteers, supporting businesses, number/length of streams, and quantity and type of waste collected were tracked. Materials collected included household trash, litter, construction and demolition debris, tires, furniture, and dead-fall debris.</li> <li>The water quality monitoring was performed by the Taunton River Watershed Alliance and</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The City of Taunton will be holding the Citywide Cleanup on Saturday, April 29, 2017. The Taunton River, Mill River and/or Three Mile River will be included.</li> </ul>
2-3 Revised	Co-sponsor Annual Citywide Cleanup	Taunton Conservation Commission         Taunton Department of Public Works         Taunton Ecology Awareness         Movement	<ul> <li>Spring '03/04/05/06/07</li> <li>Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers.</li> <li>Track the number of cleanup participants.</li> <li>Track the areas cleaned.</li> <li>Track the quantity and types of waste collected as a result of the cleanup event.</li> </ul>	<ul> <li>A Citywide Cleanup occurred on Earth Day, April 30, 2016.</li> <li>Press releases were sent to local newspapers.</li> <li>The number of volunteers, supporting businesses, areas cleaned, and quantity and type of waste collected were tracked.</li> <li>In addition, the Friends of Massasoit State Park and DCR held a cleanup on Saturday, April 30, 2016.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The City of Taunton will be holding the Citywide Cleanup on April 29, 2017. The Taunton River, Mill River and/or Three Mile River will be included.</li> </ul>
2-4 Revised	Conduct Local Water Quality Monitoring Activities	Taunton Department of Public Works Veolia Taunton River Watershed Alliance	<ul> <li>Spring '04 – Winter '07/08</li> <li>Identify sampling areas.</li> <li>Collect and analyze samples.</li> <li>Report high fecal coliform counts to responsible parties.</li> <li>Draft an annual Water Quality Report for the City of Taunton.</li> </ul>	<ul> <li>As part of a contract, Veolia Water conducts water quality monitoring activities.</li> <li>A Water Quality Report for the City of Taunton has been drafted.</li> <li>Training for water quality monitors was offered by the TRWA on February 25, 2017.</li> </ul>	Activities to proceed as noted in the Measurable Goal's column.

# 2. Public Involvement and Participation

2-5	Conduct Attitude	Taunton Conservation Commission	Summer – Fall '04 & '07	No additional activities were scheduled for Perm
	Surveys	Taunton Ecology Awareness	• Identify the locations throughout the City where the stormwater awareness survey is	Year 14.
		Movement	available for completion.	
			• Send a press release explaining the stormwater awareness survey to the local	
			newspapers.	
			• Track the number of completed surveys.	
			• Compile surveys in order to gauge any change in attitude/behavior regarding	
			stormwater issues.	
Revised				
2-6	Co-sponsor Storm	Taunton Conservation Commission	Summer '05/07	Storm drains were stenciled during Permit Year
2-0				The exact number of storm drains stenciled was
	Drain Stenciling/Plating	Taunton Department of Public Works Taunton Ecology Awareness	• Identify areas where stenciling will take place and establish schedule for the activity.	recorded.
	Activities		• Track the number of drains stenciled each year.	Tecordea.
	Acuvities	Movement	• Track the number of volunteers assisted in the stenciling activity.	
			• Summarize the condition of the inlet surveyed.	
			• Publicize storm drain stenciling event(s) via a press release to local newspapers.	
Revised				

#### 2a. Additions

r Permit	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> </ul>
t Year 14. ed was not	• The City of Taunton is planning to install metal plates instead of stenciling because they will last longer. The City is planning for 500 plates to be installed in Permit Year 15.

# 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
3-1 Revised	Field Verify Outfall Locations	Taunton Department of Public Works	<ul> <li>Spring '06 – Winter '07/08</li> <li>Develop a schedule for outfall verification and outfall identification activities.</li> <li>Perform and track the outfall verification and outfall identification activities as scheduled.</li> <li>Continuously update the storm drainage system map as new components are added to the municipal storm drainage system.</li> <li>Spring '11 – Spring '14</li> <li>Update GIS drainage system mapping through visual inspection of drain structures. Drain manholes, catch basins, and outfalls will be inspected and mapped. Approximately 25% of the drain system will be inspected each year.</li> </ul>	<ul> <li>The City of Taunton has updated the storm drainage system map as new components were added.</li> <li>Outfall sampling is ongoing in an effort to investigate connectivity and identify illicit</li> </ul>	<ul> <li>The City of Taunton plans to restart dry-weather sampling of outfalls during Permit Year 15.</li> <li>The City of Taunton plans to continue drainage inspections during Permit Year 15.</li> </ul>
3-2 Revised	Adopt a Stormwater Ordinance	Taunton Planning Department Taunton Conservation Commission Taunton Engineering Department	<ul> <li>Winter '09/10</li> <li>Draft the Stormwater Ordinance. Spring '10</li> <li>Present the Stormwater Ordinance for a vote of acceptance at the Municipal Council.</li> <li>Spring '10 – Winter '10/11</li> <li>Track the number of enforcement actions taken.</li> <li>Post Stormwater Ordinance on City's web site.</li> </ul>	No violations of the storm water ordinance were reported in Permit Year 14.	The City of Taunton will draft stormwater rules and regulations to enforce the stormwater ordinance.
3-3 Revised	Implement an Illicit Discharge Detection and Elimination Plan	Taunton Department of Public Works	<ul> <li>Spring '11-Spring '14</li> <li>Perform dry weather screening of outfalls as part of outfall field verification.</li> </ul>	<ul> <li>The City of Taunton is working to resolve and determine the source of illicit discharges.</li> <li>Outfalls that previously tested positive for illicit connections were re-sampled in collaboration with MassDEP.</li> <li>Two direct connections to the Mill River and two direct connections to the Taunton River were discovered. The illicit connections were terminated and the residences were connected to the City sewer system.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The MS4 2016-2017 program will continue in 2017.</li> <li>The City of Taunton will inspect 25% of the outfalls.</li> <li>The City of Taunton will continue to resolve the source of potential illicit discharges.</li> </ul>
3-4	Establish a Formal Septic System Management Program (SSMP)	Taunton Board of Health Office of Economic and Community Development	<ul> <li>Spring '03 – Winter '07/08</li> <li>Track the number of septic system pumping companies licensed by the City each year.</li> <li>Track the number of septic system installers that are licensed by the City each year.</li> <li>Track the number of Certificates of Compliance issued each year.</li> <li>Track the number of failed septic systems identified each year and action taken.</li> <li>Track the number of property owners that participate in the Water Pollution Abatement Trust (WPAT).</li> <li>Provide pamphlets that summarize requirements of the Title V program.</li> <li>Board of Health employees will attend trainings on the septic systems.</li> </ul>	<ul> <li>The Board of Health and Office of Economic and Community Development track the required information.</li> <li>There were 32 septic system pumping companies and 50 septic system installers licensed by the City of Taunton.</li> <li>For 2016, 99 Disposal Work Construction Permits were issued.</li> <li>Approximately 15 failed septic systems were identified during 2016.</li> </ul>	Activities to proceed as noted in the Measurable Goal's column.
Revised				-	

3-5	Conduct a Sewer	Taunton Department of Public Works	Winter '07/08 – Winter '13	٠	The City of Taunton is tracking the sanitar
	Separation Program		• Develop and implement a program to separate the sanitary and stormwater sewer		sewer capital improvement projects conduc
l			systems.	•	The City of Taunton has continued to
[				_	implement projects to separate the sanitary
Revised					stormwater sewer systems.
				•	The City of Taunton performed the following
					stormwater work:
				•	Completed separation of sewer and drain o
					Forest St., Danforth St., and West Britanni
					Street.
				•	Reduced infiltration on Davenport St., This
					St., and Fourth St., with cured in place pip
					rehabilitation.
				•	Replaced sewer mains on Church Ave and
					Charles St.
				•	Remove underdrain connections from the s
					system (Hopewell St, Cottage St, Weir St)

### 3a. Additions

ary ucted.	• Activities to proceed as noted in the Measurable Goal's column.
ry and	• In permit year 15, the City of Taunton will continue to develop and implement projects to separate the sanitary and stormwater sewer systems.
wing	<ul> <li>Currently, the scope of the MS4 2016-2017 work includes the following stormwater and wastewater</li> </ul>
on	work:
nia	• CIPP/SIPP – 7,000 LF
	Combined manhole separation/replacement
nird	• Separation of sewer/drain inflow at Taunton Green
ipe	• Lining of sewer services
	• Installation of 50 drain service laterals
d	
e sewer	

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14	Planned Activities – Permit Year 15
ID #				(Reliance on non-municipal partners indicated, if any)	
4-1	Develop a Site Inspection Form and Conduct Site Inspections	Taunton Planning Board Taunton Engineering Department Taunton Conservation Commission	<ul> <li>Spring '07 – Winter '07/08</li> <li>Develop a Site Inspection Form that reflects the ESC.</li> <li>Track the frequency of inspections conducted for each site.</li> <li>Track the completion of inspection forms.</li> <li>Track the number of failed ESC BMPs discovered on each site.</li> </ul>	No additional activities scheduled for Permit Year 14.	• Activities to proceed as noted in the Measurable Goal's column.
Revised					
	Develop and Implement a Citizen Tip Line	Taunton Department of Public Works Taunton Web Master	<ul> <li>Spring '06 – Winter '07/08</li> <li>Advertise that DPW will accept calls on stormwater issues.</li> <li>Track the number of complaints received at the DPW regarding stormwater issues.</li> <li>Track the problems/incidents remedied as a result of calls to the DPW.</li> </ul>	<ul> <li>The DPW handles all calls concerning stormwater issues.</li> <li>The complaints and remedies concerning stormwater issues have been tracked.</li> </ul>	• Activities to proceed as noted in the Measurable Goal's column.
Revised				1	

#### 4a. Additions

There are no additions at this time.

### 5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	<b>BMP Description</b>	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
	Revise Site Plan Review Submission Requirements & Procedures	Taunton Planning Department Taunton Planning Board Taunton Municipal Council	<ul> <li>Winter '05/06</li> <li>Develop the amendment to Section XV of the Zoning Ordinance (Site Plan Review). Spring '07</li> <li>Submit the amendment to the Planning Board and hold a public hearing.</li> <li>Submit the proposed amendment to the Municipal Council for acceptance into the Zoning Bylaw.</li> </ul>	No activities scheduled for Permit Year 14.	• Activities to proceed as noted in the Measurable Goal's column.
Revised					

#### 5a. Additions

# 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	<b>Progress on Goal(s) – Permit Year 14</b> (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15		
6-1 Revised	Develop a Formal Training Program for DPW Staff	Taunton Department of Public Works	<ul> <li>Spring '06 Revise date to Spring '07 <ul> <li>Establish a formal training program for DPW employees.</li> <li>Spring '06 – Winter '07/08</li> <li>Revise date to Spring '07 – Winter '07/08</li> <li>Conduct training sessions with all current employees.</li> <li>Train all new DPW employees in accordance with the training program requirements.</li> <li>Track the number of employees trained.</li> <li>Conduct refresher training for employees after every two years of employment.</li> </ul> </li> </ul>	<ul> <li>The City of Taunton trains new employees on practices within the DPW Garage.</li> <li>The City started a stormwater audit for the DPW Garage.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The City of Taunton plans to finish the stormwater audit of the DPW Garage in Permit Year 15. As part of the audit, a formal stormwater training program will be formalized.</li> </ul>		
	Davalar a Farmal	Tourison Deportment of Dublic Works	Series 206 Winter (07/09		A d'itie de marce d'an de Marca de		
6-2	Develop a Formal Catch Basin Cleaning Program	Taunton Department of Public Works Highway Division	<ul> <li>Spring '06 – Winter '07/08</li> <li>Use a street inventory to prioritize catch basins for cleaning by street.</li> <li>Clean a minimum of ten percent of catch basins per year.</li> <li>Document annual cleaning activities.</li> </ul>	<ul> <li>The City and private contractors have continued to clean catch basins and manholes.</li> <li>The cleaning activities have been documented.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>Continue to clean catch basins and storm drain pipes using city employees and private contractors during</li> </ul>		
Revised			~~~~~~		permit year 15.		
6-3 Revised	Upgrade the Existing Parking Lot and Street Sweeping Program	Taunton Department of Public Works Highway Division	<ul> <li>Spring '04</li> <li>Purchase a second street sweeper.</li> <li>Summer '04 – Winter '07/08</li> <li>Conduct an inventory of all publicly owned streets and parking lots.</li> <li>Annually update and prioritize streets and lots for sweeping activities.</li> <li>Develop a schedule for conducting sweeping activities.</li> <li>Track the streets and lots that are swept each year.</li> <li>Maintain a log of the disposed materials.</li> </ul>	<ul> <li>An inventory of all publicly owned streets and parking lots has been conducted.</li> <li>The sweeping activities have been documented.</li> <li>The City maintains a map that delineates the street sweeping program.</li> <li>The City swept the impervious surfaces in the downtown area on a weekly basis.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The City plans to continue to sweep publicly owned streets and parking lots during permit year 15.</li> </ul>		
6-4	Develop a Vehicle & Equipment	Taunton Department of Public Works	<ul> <li>Spring '06</li> <li>Develop and implement a vehicle and equipment maintenance policy and</li> </ul>	A Vehicle Maintenance Garage and associated area has been designated.	Activities to proceed as noted in the Measurable Goal's column.		
Revised	Maintenance Policy		incorporate policy requirements into the DPW employee training programs.	<ul> <li>The DPW has designated a "Spill Coordinator" that responds to all spills.</li> <li>New employees are informed of these policies.</li> <li>The City started a stormwater audit for the DPW Garage.</li> </ul>	• The City of Taunton plans to finish the stormwater audit of the DPW Garage in Permit Year 15. As part of the audit, a vehicle and equipment maintenance policy will be formalized.		
6-5 Revised	Develop a Vehicle & Equipment Cleaning Policy	Taunton Department of Public Works	<ul> <li>Spring '06</li> <li>Develop and implement a vehicle and equipment cleaning policy and incorporate policy requirements into the DPW employee training programs.</li> </ul>	<ul> <li>An area has been designated for the cleaning of vehicles and equipment.</li> <li>There's an oil/water separator that everything drains to.</li> <li>New employees are informed of these policies.</li> </ul>	<ul> <li>Activities to proceed as noted in the Measurable Goal's column.</li> <li>The City of Taunton plans to finish the stormwater audit of the DPW Garage in Permit Year 15. As part of the audit, a vehicle and equipment cleaning policy will be formalized.</li> </ul>		

### 6a. Additions

# 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<i f applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
7-1				During Permit Year 14, the City of Taunton researched educational materials on pet waste.	Develop and distribute educational materials on pet waste at the Animal Shelter.
Revised	Pooper Scooper Educational Materials	Department of Public Works	Spring/Summer 2013 Develop educational materials on pet waste.		
			Spring/Summer 2014 Distribute educational materials at Animal Shelter and with dog licenses.		

#### 7a. Additions

#### 7b. WLA Assessment

#### Part IV. Summary of Information Collected and Analyzed

The Taunton River Watershed Alliance (TRWA) and Veolia Water collect water samples throughout the Taunton River Watershed through a collaborative monitoring project. There are three purposes for the monitoring: develop baseline characterization data, measure changes in the watershed over time, and screen for water quality problems. After the end of the year, a report titled <u>TRWA Taunton River Watershed 2016</u> <u>Monitoring Summary</u> was completed to document the sampling activities and results.

For 2016, sampling was performed on the second Tuesday of the month from March through November (weather dependent) between the hours of 4:30 a.m. and 8:30 a.m. Sampling was not performed in January, February, and December due to safety concerns from snow and ice on the bridges and because colder water has higher dissolved oxygen content and so the oxygen stress on the river is greatly reduced. In 2016, the sampling team tested nineteen sites in Taunton River Watershed. These sites were chosen for several reasons including to cover a representative area of the City's waterways, to include any known problem area or areas of critical concern, and to target areas where no previous water quality data existed. The following chart lists the monitoring locations for 2016.

STREET/BRIDGE LOCATION	RIVER	GPS Location	ID
CENTER ST., BERKLEY BRIDGE	TAUNTON RIVER	N41°50' 6.1/W71°06' 28.7	TNT 01
PLAIN ST., TAUNTON	TAUNTON RIVER	N41°53' 9.7/W71°05' 20.5	TNT 02
BEDFORD ST., RT 18, BRIDGEWATER	TAUNTON RIVER	N41°56' 12/W70°57' 56	BED 01 (TNT 3)
CHERRY ST., BRIDGEWATER	TAUNTON RIVER	N41°58' 42.3/W70°54' 44	CHE 01 (TNT 04)
RT. 79, ASSONET CENTER BRIDGE	ASSONET RIVER	N 41°47' 37.9/W 71°04' 3.6	ASO 01
SEGREGANSETT RIVER BRIDGE, BROOK ST., DIGHTON	SEGREGANSETT RIVER	N 41°49' 32/W 71°07' 37	SEG
CHICKAMUCKETSETT BROOK BRIDGE, BERKLEY ST., BERKLEY	CHICKAMUCKSETT BROOK	N 41°49' 58.3/W 71°06' 25	BER 01
SOMERSET AVE, RT. 138	THREE MILE	N41°51' 19.9/W71°06' 56	TMR 01
ROUTE 44/COHANNET ST.	THREE MILE	N41°53' 11.4/W71°08	TMR 02
CRANE ST., NORTON	THREE MILE	N41°56' 48.3/W71°09' 38	TMR 03
INGELL ST./TAUNTON	MILL RIVER	N41°58' 46/W71° 04' 55.6	MIL 01
WASHINGTON ST./TAUNTON	MILL RIVER	N41°54' 11.7/W71°05' 51	MIL02
WHITTENDON ST./TAUNTON	MILL RIVER	N41°55' 24/W71° 06' 21.5	MIL03
ROUTE 44, RAYNHAM	FORGE RIVER	N41°54' 18.3/W71°03' 35	FORGE
MIDDLEBOROUGH AVE., TAUNTON	COTLEY RIVER	N41°53/W71°01'28.4	COTLEY
RIVER ST., ROUTE 44	FURNACE BROOK	N41°53'35/W71°00' 04.7	FBR 01
HIGHSTONE ST., E. TAUNTON	THOMPSON BROOK	N41°51'46/W70°58'40.6	TBR 01
HAYWOOD ST., BRIDGEWATER	TOWN RIVER	N41°59'51/W70°57'13.2	TWH 01
HIGH ST., BRIDGEATER	MATFIELD RIVER	N41°59'58.1/W70°56'16	MAT 01

Veolia Water tested the samples for eight parameters. The parameters are temperature, dissolved oxygen, pH, total phosphorus, nitrate-nitrogen, fecal coliform bacteria, total suspended solids, and salinity. The following charts display a summary of the results for fecal coliform bacteria and total phosphorus.

Fecal Coliform 2016 (colonies/100 ml)									
Site	April	May	June	July	Aug	Sept	Oct	Nov	
TNT 01	30	30	140	20	40	140	140	50	
TNT 02	10	30	<10	70	340	120	300	-	
BED 01 (TNT 3)	40	30	30	130	280	30	40	10	
CHE 01 (TNT 04)	60	30	110	190	650	20	530	10	
ASO 01	10	<10	270	1350	50	110	-	-	
SEG	10	10	80	180	660	-	1110	50	
BER 01	<10	30	90	1200	530	530	100	20	
TMR 01	70	10	70	410	650	180	270	40	
TMR 02	30	30	40	20	310	150	600	50	
TMR 03	20	<10	130	190	180	160	240	10	
MIL 01	60	80	290	630	160	150	1200	650	
MIL02	30	60	180	490	750	490	450	1060	
MIL03	30	10	150	840	820	380	240	-	
FORGE	10	60	160	240	1870	220	170	100	
COTLEY	30	10	10	40	90	60	360	90	
FBR 01	<10	50	130	130	310	410	150	10	
<b>TBR 01</b>	<10	10	<10	<10	20	20	770	20	
TWH 01	20	30	100	260	320	200	320	340	
MAT 01	450	140	100	160	290	140	<10	80	
TNT 01	30	30	140	20	40	140	140	50	

Note: "-" indicates no sample data provided

TOTAL PHOSPHORUS VALUES FOR 2016 (mg/l)								
Site	April	May	June	July	Aug	Sept	Oct	Nov
TNT 01	0.21	0.062	0.1	0.17	0.19	0.19	0.16	0.12
TNT 02	0.013	0.031	0.084	0.05	0.2	0.31	0.046	0.037
BED 01 (TNT 3)	0.048	0.036	0.026	0.054	0.041	0.029	0.061	0.039
CHE 01 (TNT 04)	0.061	0.04	0.067	0.062	0.068	0.056	0.079	0.073
ASO 01	< 0.010	0.012	0.034	0.032	0.043	0.017	-	-
SEG	0.014	0.018	0.034	-	0.17	-	0.034	0.018
BER 01	0.014	0.011	0.064	0.027	0.2	0.16	0.032	0.044
TMR 01	0.023	0.017	0.036	0.016	0.24	0.29	0.026	0.015
TMR 02	< 0.010	0.015	0.041	0.018	0.027	0.01	0.02	0.018
TMR 03	< 0.010	0.018	0.038	0.021	0.063	0.018	0.017	0.017
MIL 01	0.013	0.027	0.028	0.022	0.043	0.067	0.044	0.02
MIL02	0.01	0.018	0.028	0.026	0.058	0.017	0.019	0.014
MIL03	0.011	0.012	0.034	0.016	0.035	0.014	0.011	-
FORGE	0.023	0.021	0.048	0.056	0.058	0.032	0.027	0.016
COTLEY	< 0.010	< 0.010	0.041	0.027	0.033	0.01	0.018	< 0.010
FBR 01	0.014	0.023	0.026	0.014	0.063	< 0.010	0.015	< 0.010
<b>TBR 01</b>	0.01	0.018	0.042	0.044	0.076	0.036	0.035	0.037
TWH 01	0.028	0.03	0.1	0.069	0.11	0.12	0.11	0.39
MAT 01	0.034	0.041	0.044	0.065	0.087	0.065	0.065	0.042

Note: "-" indicates no sample data provided