

Municipality/Organization: City of Taunton

EPA NPDES Permit Number: MAR041164

MassDEP Transmittal Number: W-041086

Annual Report Number Year 10
& Reporting Period: April 1, 2012 – March 31, 2013

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2013)

Part I. General Information

Contact Person: Anthony Abreau **Title:** Assistant Commissioner

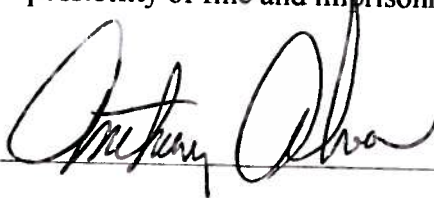
Telephone #: 508-821-1434 **Email:** dpwcomm@comcast.net

Mailing Address: 90 Ingell Street, Taunton, MA 02780

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:



Printed Name: Anthony Abreau

Title: Assistant Commissioner

Date:

4/18/2013

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 II.B.8 The Town encourages BMPs that promote groundwater recharge and Standard 3 of the state Storm Water Management Policy. However, specific groundwater recharge/infiltration policies have not yet been developed. The Subdivision Rules and Regulations include the following statement: “All drainage must comply with the Massachusetts Department of Environmental Protection’s stormwater regulations.”

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
1-1 Revised	Conduct an Annual Household Hazardous Waste Collection Day	Taunton Pollution Prevention Control Facility	Spring '04/05/06/07 <ul style="list-style-type: none"> Sponsor an annual household hazardous waste collection day. Continue to develop the Taunton Recycling Information brochure and distribute to all Taunton residents via a mass mailing on an annual basis. Track the number of brochures distributed to residences via the mass mailing each year. Annually send a press release advertising the event to the <i>Taunton Gazette</i> and track whether or not it was published. Advertise the event on the local cable access station on an annual basis. Maintain and update the City's web page. Track the amounts and types of waste collected each year. Track the number of Taunton vehicles that participate in the event each year. 	<ul style="list-style-type: none"> The hazardous waste collection day was held on April 28, 2012. 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 posted at supermarkets and in schools. 129 vehicles participated in the event in 2012. Some of the items collected include batteries, solvents, paint thinners, gasoline, kerosene, fluorescent light bulbs, asbestos roofing cement, and antifreeze. The City of Taunton distributes recycling bins to residents at the Department of Public Works. The City of Taunton Board of Health offered at least two medical hazardous waste days. 	<ul style="list-style-type: none"> The hazardous waste collection day is scheduled for Saturday, April 27, 2013. Continue to offer two medical hazardous waste days throughout the year. The next medical hazardous waste day will be on Saturday, April 6, 2012. Continue to distribute recycling bins to residents.
1-2 Revised	Distribute a Series of Educational Flyers	Taunton Conservation Commission Taunton Environmental Awareness Movement Taunton Municipal Lighting Plant Taunton Webmaster	Summer '06/07 <ul style="list-style-type: none"> Track number of flyers distributed each year. Post the electronic version of the flyer on the City's web page. 	<ul style="list-style-type: none"> Continued to make the educational flyers titled "After the Storm" available at the Department of Public Works and the Planning and Conservation Department. Continued to display a poster titled "Stormwater and the Construction Industry" in the Department of Public Works and the Planning and Conservation Department. An electronic version of the flyers and posters are available on the City of Taunton's web page. 	<ul style="list-style-type: none"> 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 Revised	Post Educational Information on the City's Web Site	Taunton Department of Public Works Taunton Conservation Commission Taunton Planning Department Taunton Ecology Awareness Movement	Spring '03 – Winter '07/08 <ul style="list-style-type: none"> Post stormwater related information on the Green Page web site. Update web site regularly. 	<ul style="list-style-type: none"> 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 stormwater. The City of Taunton continued to maintain the stormwater web page. 	<ul style="list-style-type: none"> The City of Taunton will continue to maintain the stormwater web page.
1-4 Revised	Promoting Water Conservation Practices for Homeowners	Taunton Water Department	Spring '03 – Winter '07/08 <ul style="list-style-type: none"> Maintain and update the water conservation tips on the Water Department's web page. Continue to use local newspapers to promote water conservation and track the number of water conservation reminders that are placed in newspapers each year. 	<ul style="list-style-type: none"> Water conservation tips have been included on the stormwater webpage. 	<ul style="list-style-type: none"> The City of Taunton will continue to maintain the stormwater web page including water conservation tips.

1-5	Participate in the Annual Ecology Fair	Taunton Conservation Commission Taunton Department of Public Works Taunton Water Department Taunton Ecology Awareness Movement	Fall '04, Fall '06, Spring '07 <ul style="list-style-type: none"> • Submit a press release advertising the event to the <i>Taunton Gazette</i>. • Track the number and type of educational materials that are distributed by the City's Storm Water Quality Booth at the Taunton Ecology Fair. 	<ul style="list-style-type: none"> • The Taunton River Festival was held on Sunday, June 3, 2012. 	<ul style="list-style-type: none"> • The Taunton River Festival will be held on Saturday, June 1, 2013. Taunton River Watershed Alliance is planning to host an educational booth at this event.
Revised					

1a. Additions

There are no additions at this time.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
2-1	Public Access to SWMP & Receipts of Comments	Taunton Superintendent of Public Works Taunton Webmaster	Summer '03 <ul style="list-style-type: none"> • Make draft SWMP available to the public and conduct public comment period. • Finalize SWMP. Summer '04 – Winter '07/08 <ul style="list-style-type: none"> • Make the Final SWMP accessible to the public via the City's public library, Craig C. Sherman Operations Center, and web page. 	<ul style="list-style-type: none"> • The Final SWMP is located at the City's public library. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					
2-2	Co-sponsor Annual River Cleanup	Taunton Conservation Commission Taunton Department of Public Works Taunton Ecology Awareness Movement	Fall '03/04/05/06/07 <ul style="list-style-type: none"> • Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers. • Track the number of cleanup volunteers and supporting businesses. • Track the number/length of streams cleaned. • Track the quantity and types of waste collected as a result of the cleanup event. • Indicate the water quality at the river cleanup sites. 	<ul style="list-style-type: none"> • A Citywide Cleanup occurred on April 28, 2012. • Press releases were sent to local newspapers. The City Council President read a proclamation to officially recognize the cleanup. • The number of volunteers, supporting businesses, number/length of streams, and quantity and type of waste collected were tracked. Approximately 120 to 130 volunteers participated in the event. • The water quality monitoring was performed by the Taunton River Watershed Alliance and Veolia Water. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column. • The City of Taunton will be holding the Citywide Cleanup in Saturday, April 27, 2013. The Mill River and/or Three Mile River will be included.
Revised					
2-3	Co-sponsor Annual Citywide Cleanup	Taunton Conservation Commission Taunton Department of Public Works Taunton Ecology Awareness Movement	Spring '03/04/05/06/07 <ul style="list-style-type: none"> • Send press releases to the <i>Taunton Gazette</i>, the <i>Brockton Enterprise</i> and other local newspapers. • Track the number of cleanup participants. • Track the areas cleaned. • Track the quantity and types of waste collected as a result of the cleanup event. 	<ul style="list-style-type: none"> • A Citywide Cleanup occurred on April 28, 2012. • Press releases were sent to local newspapers. • The number of volunteers, supporting businesses, areas cleaned, and quantity and type of waste collected were tracked. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column. • The City of Taunton will be holding the Citywide Cleanup in April 27, 2013. The Mill River and/or Three Mile River will be included.
Revised					
2-4	Conduct Local Water Quality Monitoring Activities	Taunton Department of Public Works USFilter Taunton River Watershed Alliance	Spring '04 – Winter '07/08 <ul style="list-style-type: none"> • Identify sampling areas. • Collect and analyze samples. • Report high fecal coliform counts to responsible parties. • Draft an annual Water Quality Report for the City of Taunton. 	<ul style="list-style-type: none"> • As part of a contract, Veolia Water conducts water quality monitoring activities. • A Water Quality Report for the City of Taunton has been drafted. • High fecal coliform counts were reported to the responsible parties. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					
2-5	Conduct Attitude Surveys	Taunton Conservation Commission Taunton Ecology Awareness Movement	Summer – Fall '04 & '07 <ul style="list-style-type: none"> • Identify the locations throughout the City where the stormwater awareness survey is 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. 	No activities were scheduled for Permit Year 10.	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					

2. Public Involvement and Participation

2-6	Co-sponsor Storm Drain Stenciling Activities	Taunton Conservation Commission Taunton Department of Public Works Taunton Ecology Awareness Movement	Summer '05/07 <ul style="list-style-type: none"> • Identify areas where stenciling will take place and establish schedule for the activity. • Track the number of drains stenciled each year. • 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. 	Storm drains were stenciled during Permit Year 10. Approximately 100 storm drains were stenciled.	<ul style="list-style-type: none"> • Continue to stencil storm drains during Permit Year 11. The City of Taunton will stencil 100 storm drains during Permit Year 11.
Revised					

2a. Additions

There are no additions at this time.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
3-1	Field Verify Outfall Locations	Taunton Department of Public Works	Spring '06 – Winter '07/08 <ul style="list-style-type: none"> • Develop a schedule for outfall verification and outfall identification activities. • Perform and track the outfall verification and outfall identification activities as scheduled. • Continuously update the storm drainage system map as new components are added to the municipal storm drainage system. 	<ul style="list-style-type: none"> • The City of Taunton has updated the storm drainage system map as new components were added. • The City of Taunton continued the dry-weather sampling program and drainage inspections during permit year 10. 	<ul style="list-style-type: none"> • The City of Taunton plans to continue dry-weather sampling of outfalls during Permit Year 11. • The City of Taunton plans to continue to perform drainage inspections during Permit Year 11.
Revised			Spring '11 – Spring '14 <ul style="list-style-type: none"> • 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. 		
3-2	Adopt a Stormwater Ordinance	Taunton Planning Department Taunton Conservation Commission Taunton Engineering Department	Winter '09/10 <ul style="list-style-type: none"> • Draft the Stormwater Ordinance. Spring '10 <ul style="list-style-type: none"> • Present the Stormwater Ordinance for a vote of acceptance at the Municipal Council. Spring '10 – Winter '10/11 <ul style="list-style-type: none"> • Track the number of enforcement actions taken. • Post Stormwater Ordinance on City's web site. 	<ul style="list-style-type: none"> • A review of sample stormwater ordinances from nearby cities and towns has been completed. A draft of the Stormwater Ordinance has been completed. The DPW is in the process of reviewing the draft stormwater ordinance. 	<ul style="list-style-type: none"> • The Department of Public Works plans on presenting the Stormwater Ordinance to the Municipal Council during Permit Year 11.
Revised					
3-3	Implement an Illicit Discharge Detection and Elimination Plan	Taunton Department of Public Works	Spring '11-Spring '14 <ul style="list-style-type: none"> • Inspect and dry weather sample 25% of the outfalls each year. 	<ul style="list-style-type: none"> • Phase 8 SSES program took place in 2012. • The City of Taunton has started to field verify the drainage system infrastructure and update the GIS mapping. • The main focus of the inspections was an underdrain inspection program. The City inspected 260 sewer manholes along the permanent underdrain system. • Some of the outfalls were inspected. • The City of Taunton coordinated with the DEP monitoring coordinator to perform sampling at potential hot spot locations for illicit discharges. • The City of Taunton is working to resolve and determine the source of illicit discharges. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column. • The Phase 9 SSES program will take place in 2013. • The City of Taunton will inspect 25% of the outfalls and perform dry-weather sampling. • The City of Taunton will continue to resolve the source of potential illicit discharges.
Revised					
3-4	Establish a Formal Septic System Management Program (SSMP)	Taunton Board of Health Office of Economic and Community Development	Spring '03 – Winter '07/08 <ul style="list-style-type: none"> • Track the number of septic system pumping companies licensed by the City each year. • Track the number of septic system installers that are licensed by the City each year. • Track the number of Certificates of Compliance issued each year. • Track the number of failed septic systems identified each year and action taken. • Track the number of property owners that participate in the Water Pollution Abatement Trust (WPAT). • Provide pamphlets that summarize requirements of the Title V program. • Board of Health employees will attend trainings on the septic systems. 	<ul style="list-style-type: none"> • The Board of Health and Office of Economic and Community Development track the required information. • There were 33 septic system pumping companies with a total of 130 trucks and 52 septic system installers licensed by the City of Taunton. • For 2012, about 121 Disposal Work Construction Permits were issued. • Approximately 24 failed septic systems were identified during 2012. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					

Revised				<ul style="list-style-type: none"> 7 property owners participated in the Septic Loan Program. One of the property owners used the funds to tie-in to the sanitary sewer system. 	
3-5	Conduct a Sewer Separation Program	Taunton Department of Public Works	Winter '07/08 – Winter '13 <ul style="list-style-type: none"> Develop and implement a program to separate the sanitary and stormwater sewer systems. 	<ul style="list-style-type: none"> The City of Taunton is tracking the sanitary sewer capital improvement projects conducted. The City of Taunton has continued to implement projects to separate the sanitary and stormwater sewer systems. The Phase 8 SSES program performed the following work: <ul style="list-style-type: none"> Replaced 4,000 linear feet of sewer and separated 32 combined manholes in the Eldridge/Danforth Street Area. Replaced 1,000 linear feet of sewer, and 600 lf of drain, installed 2,000 lf of CIPP, and separated 16 combined manholes in the Broadway Area. Installed 6,675 lf of CIPP on from Hopewell Street/Danforth Street intersection to Washington St/Court Street intersection. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. In permit year 11, the City of Taunton will continue to develop and implement projects to separate the sanitary and stormwater sewer systems. Currently, the scope of the Phase 9 SSES program includes the following work: <ul style="list-style-type: none"> Replace 500 lf of collapsing storm drain on Weir Street and Somerset Avenue Remove 20 +/- sewer connection from storm drain that discharges to Mill River Repair sewer-drain cross connection at Weir and High Street Separation of approx. 50 "Category II" combined manholes and approx. 116 "Category III" manholes. CIPP-lining of approx. 9,000 lf of brick sewer on Bay St., First St., Everett St., and Main St.
Revised					

3a. Additions

There are no additions at this time.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
4-1	Develop a Site Inspection Form and Conduct Site Inspections	Taunton Planning Board Taunton Engineering Department Taunton Conservation Commission	Spring '07 – Winter '07/08 <ul style="list-style-type: none"> • Develop a Site Inspection Form that reflects the ESC. • Track the frequency of inspections conducted for each site. • Track the completion of inspection forms. • Track the number of failed ESC BMPs discovered on each site. 	No activities scheduled for Permit Year 10.	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					
4-2	Develop and Implement a Citizen Tip Line	Taunton Department of Public Works Taunton Web Master	Spring '06 – Winter '07/08 <ul style="list-style-type: none"> • Advertise that DPW will accept calls on stormwater issues. • Track the number of complaints received at the DPW regarding stormwater issues. • Track the problems/incidents remedied as a result of calls to the DPW. 	<ul style="list-style-type: none"> • The DPW handles all calls concerning stormwater issues. • The complaints and remedies concerning stormwater issues have been tracked. 	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					

4a. Additions

There are no additions at this time.

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
5-1	Revise Site Plan Review Submission Requirements & Procedures	Taunton Planning Department Taunton Planning Board Taunton Municipal Council	Winter '05/06 <ul style="list-style-type: none"> • Develop the amendment to Section XV of the Zoning Ordinance (Site Plan Review). Spring '07 <ul style="list-style-type: none"> • Submit the amendment to the Planning Board and hold a public hearing. • Submit the proposed amendment to the Municipal Council for acceptance into the Zoning Bylaw. 	No activities scheduled for Permit Year 10.	<ul style="list-style-type: none"> • Activities to proceed as noted in the Measurable Goal's column.
Revised					

5a. Additions

There are no additions at this time.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
6-1	Develop a Formal Training Program for DPW Staff	Taunton Department of Public Works	Spring '06 Revise date to Spring '07 <ul style="list-style-type: none"> Establish a formal training program for DPW employees. Spring '06 – Winter '07/08 Revise date to Spring '07 – Winter '07/08 <ul style="list-style-type: none"> Conduct training sessions with all current employees. Train all new DPW employees in accordance with the training program requirements. Track the number of employees trained. Conduct refresher training for employees after every two years of employment. 	<ul style="list-style-type: none"> A formal employee training program was not developed due to the concentration on other parts of the SWMP. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. The City of Taunton plans to start to develop a formal employee training program for stormwater pollution prevention during Permit Year 11. The City of Taunton will start the training during Permit Year 12.
Revised					
6-2	Develop a Formal Catch Basin Cleaning Program	Taunton Department of Public Works Highway Division	Spring '06 – Winter '07/08 <ul style="list-style-type: none"> Use a street inventory to prioritize catch basins for cleaning by street. Clean a minimum of ten percent of catch basins per year. Document annual cleaning activities. 	<ul style="list-style-type: none"> The City cleaned over 1,500 catch basins by the city and private contractors in permit year 10. The cleaning activities have been documented. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. Continue to clean catch basins using city employees and private contractors during permit year 11.
Revised					
6-3	Upgrade the Existing Parking Lot and Street Sweeping Program	Taunton Department of Public Works Highway Division	Spring '04 <ul style="list-style-type: none"> Purchase a second street sweeper. Summer '04 – Winter '07/08 <ul style="list-style-type: none"> Conduct an inventory of all publicly owned streets and parking lots. Annually update and prioritize streets and lots for sweeping activities. Develop a schedule for conducting sweeping activities. Track the streets and lots that are swept each year. Maintain a log of the disposed materials. 	<ul style="list-style-type: none"> An inventory of all publicly owned streets and parking lots has been conducted. The sweeping activities have been documented. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. The City plans to continue to sweep publicly owned streets and parking lots during permit year 11.
Revised					
6-4	Develop a Vehicle & Equipment Maintenance Policy	Taunton Department of Public Works	Spring '06 <ul style="list-style-type: none"> Develop and implement a vehicle and equipment maintenance policy and incorporate policy requirements into the DPW employee training programs. 	<ul style="list-style-type: none"> A Vehicle Maintenance Garage and associated area has been designated. The DPW has designated a "Spill Coordinator" that responds to all spills. New employees are informed of these policies. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. The City of Taunton plans to start to develop a formal employee training program for stormwater pollution prevention during Permit Year 11. The City of Taunton will start the training during Permit Year 12. The vehicle and equipment maintenance policy will be included as part of the formal employee training program.
Revised					
6-5	Develop a Vehicle & Equipment Cleaning Policy	Taunton Department of Public Works	Spring '06 <ul style="list-style-type: none"> Develop and implement a vehicle and equipment cleaning policy and incorporate policy requirements into the DPW employee training programs. 	<ul style="list-style-type: none"> An area has been designated for the cleaning of vehicles and equipment. There's an oil/water separator that everything drains to. New employees are informed of these policies. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column. The City of Taunton plans to start to develop a formal employee training program for stormwater pollution prevention during Permit Year 11. The City of Taunton will start the training during Permit Year 12. Vehicle and equipment cleaning policy will be included as part of the formal employee training program.
Revised					

6a. Additions

There are no additions at this time.

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7-1				N/A	Develop educational materials on pet waste.
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.		
Revised					
Revised					
Revised					
Revised					
Revised					

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. At the end of the year, a report titled Annual Water Quality Report – Taunton River & Tributaries – 2012 was completed to document the sampling activities and results.

For 2012, 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 2012, the sampling team tested fifteen sites. 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 2012.

STREET/BRIDGE LOCATION	RIVER	GPS Location	ID
SOMERSET AVE, RT. 138	THREE MILE	N41°51/W71°06	TMR 01
ROUTE 44/COHANNET ST.	THREE MILE	N41°53/W71°08	TMR 02
SOLITUDE DRIVE/TAUNTON	THREE MILE	N41°56/W71°09	TMR 03
INGELL ST./TAUNTON	MILL	N41°89/W71°8	MIL 01
WASHINGTON ST./TAUNTON	MILL RIVER	N41°54/W71°5	MIL02
WHITTENDON ST./TAUNTON	MILL RIVER	N41°55/W71°6	MIL03
CENTER ST., BERKLEY BRIDGE	TAUNTON RIVER	N41°50/W71°06	TNT 01
PLAIN ST., TAUNTON	TAUNTON RIVER	N41°53/W71°05	TNT 02
46 POND ST, EASTON	QUESET BROOK	N42.06871/W71.099152	QBR
ELM ST & SCOTLAND TOWN LINE W. BRIDGEWATER	TOWN RIVER	N41.992197/W71.026070	TWN01
RT. 79, ASSONET CENTER BRIDGE	ASSONET RIVER	N 41 47 45.2 W 71 03 56.7	ASO 01
HIGHSTONE ST., E. TAUNTON	TOMSON BROOK	N41°51-46/W70°58-40	TBR 01
PRECINCT ST., ROUTE 44	FURNACE BROOK	N41°53-35/W71°0-05	FBR 01
PAYNES COVE, 90 S. MAIN ST., ASSONET	ASSONET RIVER	N41°47/W71°05	PCO
SOUTH OF BERKLEY BRIDGE, EAST OF TAUNTON RIVER, WHERE IT CROSSES BERKLEY STREET	CHUCKAMUCKSE TT BROOK		BER-T

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 2012 (colonies/100 ml)									
Site	March	April	May	June	July	Aug	Sept**	Oct	Nov
TMR 02	3	0	22	160	168	124		181	9
TMR 03	14	6	27	85	68	160		148	63
TBR 01	6	37	11	75	168	80		40	
FBR 01	0	3	36	90	213	100		54	
QBR	20	31	5	0				3	29
TNT 01	144	86	129	88	102	104		17	193
TNT 02	112	140	124	161	106	26		227	29
TMR 01	0	6	51	40	82	57		9	63
TWN01	26	11	27	50	607	124		182	132
MIL 01		670		507	833	680		700	
MIL 02		700		233	287	320		173	
MIL 03		3190		112	480	180		127	
PCO 01		11	88	129	233	280		43	
ASO 01		29	29	55	52	108		23	
BER-T	84			153	253	290		80	2210

**Fecal water bath malfunction – no results for September

TOTAL PHOSPHORUS VALUES FOR 2012 (mg/l)									
Site	March	April	May	June	July	Aug	Sept	Oct	Nov
TMR 02	0	0	0	0.06	0.07	0.07	0.09	0	0.07
TMR 03	0.08	0	0	0.06	0.08	0.07	0.07	0.11	0.06
TBR 01	0	0	0.08	0	0.09	0.12	0.12	0.21	
FBR 01	0	0	0.06	0	0.09	0.08	0.08	0.06	
QBR	0.13	0	0	0			0	0	0.06
TNT 01	0.14	0.09	0.11	0.12	0.22	0	0.14	0.06	0.12
TNT 02	0	0	0.08	0.09	0.13	0.13	0.11	0.09	0.11
TMR 01	0	0	0.06	0	0.11	0.09	0.09	0.09	0.09
TWN01	0	0	0	0.08	0.14	0.21	0.12	0.2	0.06
MIL 01		0		0.06	0.07	0.09	0	0.09	
MIL 02		0		0.05	0.06	0.08	0.08	0.06	
MIL 03		0		0.06	0.08	0.05	0.05	0	
PCO 01		0.1	0.05	0.06	0	0	0.11	0	
ASO 01		0	0.07	0.09	0.1	0.16	0.11	0.07	
BER-T	0.1			0.07	0.1	0.09	0.1	0.12	0.07