



City of Fall River
Massachusetts
Department of Community Utilities
WATER • SEWER

JASIEL F. CORREIA II
Mayor

TERRANCE SULLIVAN
Administrator

Municipality/Organization: City of Fall River

EPA NPDES Permit Number: MA0100382

MassDEP Transmittal Number: W-040761

Annual Report Number & Reporting Period: Year 13
April 1, 2015 – March 31, 2016

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2016)

Part I. General Information

1.

Contact Person: Valarie Francis **Title:** Stormwater Associate

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2.

Contact Person: Terry Sullivan **Title:** Administrator of Community Utilities

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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: Valarie Francis

Printed Name: Valarie Francis

Title: Stormwater Associate

Date: 4-22-2016

Signature: T. Sullivan

Printed Name: TERRANCE J. SULLIVAN

Title: Administrator of Community Utilities

Date: 4-22-16

Part II. Self-Assessment - Year 13

The City of Fall River has completed the required self-assessment and has determined that the municipality is in compliance with all permit conditions.

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-1	SW article/brochure made available to public at City Hall and Public Libraries.	Conservation Commission	Develop/select article/brochure & make available at Library & City Hall.	Stormwater brochures, educational water quality and stormwater handouts, and bookmarks are available at the Public Libraries and City Hall.	Continue to maintain availability of an updated brochure and educational materials at the Library and City Hall.
1-2	City Website will include information on SW management.	Conservation Commission	Provide an update to the CSO Abatement Program page on the city website	Combined Sewer Overflow Abatement Program page is available on the City Website. Includes a link to program update Feb 13, 2012.	Completed. Continue to update and maintain the website. Add a page for separate stormwater education materials on the city website
1-3	Continue to sponsor annual Shoreline Cleanup. and city wide park clean up days.	Conservation Commission	Hold City sponsored Cleanup Days. (next sched May 14, 2016)	The City sponsored and in conjunction with Fall River Park Advocates and Fall River Street Tree Planting Program held city wide and localized park cleanup days on June 6, Aug 7, and Oct 10, 2015. Fall River Park Advocates have an 'adopt an open space or park' program. Maplewood park cleanup held on April 18 th , 2015.	City will continue to sponsor shoreline, open space, and park clean up. Fall River Park Advocates and Fall River Street Tree Planting Program hold several clean up and/or tree planting days. Fall River continues the PAYT program to encourage recycling.

1-4	Presentations/Meetings on SW management related issues to be given to schools or organizations in the City.	Conservation Commission/ Sewer Commission	Presentation to be given to at least one group or school annually.	Tours of the WWT facility were held in July and August 2015 for several BCC students, and March 10 th , 2016 for UMass Dartmouth students which included an overview of stormwater issues. A presentation was given to students at Roger Williams University on Feb 24 th , 2016. A presentation was developed which includes stormwater education materials and coordination is being made for it to be presented to the Industrial Park.	Continue to give at least one presentation on SW management to schools and organizations annually, and include overview of stormwater issues with WWTP tours.
1-5	Educate dog owners about picking up dog waste	Sewer Commission	Pet waste fact sheets developed and distributed with dog registrations.	Fact sheet developed and distributed. Information regarding the need to clean up pet wastes is also included in the stormwater educational brochures.	Continue to distribute fact sheet with dog registrations.
1-6	Install and maintain signs for pet waste cleanup and SW management at parks and schools	Parks Dept/School Dept	Install signs at parks and schools; inspect/maintain signs.	Signs have been installed & maintained at 31 cemeteries, parks, playgrounds, & schools by the Park Department. Additionally all parks, playgrounds, and ball fields have multiple dog bag dispensers and signage. Cemeteries have no dogs allowed. A dog park opened during the summer of Year 9.	Parks Department to continue to inspect and maintain signs.
1-7	Staff a table w/SW info at annual Earth Day event, if held.	Conservation Commission/ Sewer Commission	Collect materials; staff table and distribute at Earth Day event; brochures distributed.	There was an Earth Day clean up and tree pruning activity held by the Fall River Street Tree Planting Program at Memorial Grove and Upper North Park held on April 18, 2015, however there was no centralized area where tables or booths are appropriate.	Continue to staff table if event is held. Look into other opportunities for a stormwater education booth. FRSTPP Earth Day activities planned for April 23 2016
1-8	Integrated Wastewater and Stormwater Management Plan	Sewer Commission	Stormwater Mitigation Planning	In year 13, the City conducted a study of the needs of the both Wastewater and Stormwater systems to create a comprehensive Capital Improvement Plan (CIP) to mitigate known issues & insure that existing infrastructure is maintained and upgraded.	Completed 12/31/15. Begin implementation of CIP, Include update information on progress on the City Web Site.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1	Comply with state public notification guidelines (MGL Ch 39 Sect. 23B).	City Clerk	Post notices of upcoming meetings as required by state law.	Notices and agendas are posted in designated locations: City Clerks Bulletin Board & Public Works Dept.	Continue posting notices for all public meetings per MGL.
2-2	Stencil catch basins with 'don't dump' message.	Department of Public Works	Stencil a minimum of 25 CB's per year with priority given to those discharging to sensitive areas such as wetlands, ponds, and rivers. (Veolia Water CB stencil goal 50 basins/yr)	Veolia Water stenciled <u>63</u> catch basins in Year 13.	Continue stenciling annually.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1	Conduct dry weather outfall screening	Sewer Commission	The 7th round of screening was done in Yr 13. Try to have all outfalls screened by end of year 14. Complete outfall reclassification and new EPA regulated map of outfalls	Whenever working near any outfall it is screened for dry weather discharge. Illicit connections removed and properly connected to sewer. Stormwater manager conducted dry weather outfall screenings, including samples taken, pictures, and GPS locations. A total of 61 out falls screened in year 13	Continue to monitor and screen outfalls during dry weather. Re-categorize outfalls per new MS4 Permit specifications, and create new map.

3-2	Continue to update the GIS map of the SW Collection System (CS).	Sewer Commission/ Planning Dept.	Update the GIS SW Collection System mapping at least annually, and provide sewer and stormwater shapefiles to City GIS online	The stormwater collection system GIS is continuously being updated from historical record plans, new as built, and GPS field surveys. Shapefiles are exported from Infonet quarterly and placed in an online shared folder for access by multiple agencies. All stormwater, and sewer utility shapefiles are available to City online GIS	Continue to update the Stormwater GIS map layers within Infonet and provide shapefiles for integration and use in the GIS online access. Meet all GIS mapping specifications required in new MS4 permit within 5 years.
3-3	Develop & implement a plan to identify & remove non-SW discharges from the MS4.	Sewer Commission	Number of illicit Connections found, investigated, and removed. Locate and remove any illicit connections within 2 yrs of screening. All outfalls inspected and categorized by end of year 14.	61 outfalls inspected in year 13, 1 leaky sewer pipe found and repaired. Routine system inspections for illicit connections are conducted during catch basin cleanings and GPS field surveys. Any suspect connections are investigated, and all complaints are investigated to determine cause and confirm that no illicit connection is present. CCTV inspections, dye testing and water quality testing are conducted as needed in order to identify illicit connections and illegal dumping.	Dry weather outfall screening and sampling will be conducted to help identify any non-SW connections. Continue to look for any signs of illicit connections when cleaning catch basins and doing field work and follow up on any complaints.
3-4	Investigate if any twin invert (TI) manholes are in the separate SW system.	Sewer Commission	Review all SW plans for TI's in yr 2. Evaluate TI's in yr 3. Corrective plan in yr 4. Implement in yr 5.	The TI MH's found at Lowell St. and Quequechan St. are connected to the CSO diversion structures at those locations. A TI is located on Tremont St and stormwater flow ds from this is permanently diverted to the CSO diversion structure at Plymouth N location and processed at the WWTP.	Field crews will continue to be on the lookout for any TI's when in the field and when reviewing plans. Corrective actions will be scheduled for any TI's that are found
3-5	Develop bylaw prohibiting non-SW connections to the MS4, allows access to search for illicit connections, and requires removal of illicit connections	Law Department/ Sewer Commission	Draft bylaw in yr 2; submit to City Council in yr 3 and thereafter until passed.	New stormwater ordinance and regulations approved and adopted by City Council in December 2009	Completed.
3-6	Develop ordinance to require inspection of new construction for proper conn. to SS.	Law Department/ Sewer Commission	Draft ordinance in yr 2; submit to City council in yr 3 and thereafter until passed.	Existing ordinance requires inspection of new construction for proper connection to sanitary or combined sewer.	Completed.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./ Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1	Develop Construction Site Erosion & Sediment Control ordinance for sites > 1 acre	Law Department/ Sewer Commission/ Planning Department	A set of city ordinances with more detailed requirements was drafted and finalized yr 11, submit to City Council in yr 12 and thereafter until passed.	The finalized draft of city ordinances regarding Construction Site Erosion & Sediment Control (Site Plan Review) was passed in year 13	completed
4-2	Require developers/ contractors to submit monthly erosion & sediment control inspection reports to City for sites > 1 acre.	Building Inspector/ Planning Department	Develop procedure for receiving & reviewing monthly reports in yr 3; require report submittals in yr 4 and thereafter.	Procedures for inspection and enforcement of control measures at construction sites and procedures to ensure long term operation and maintenance of best management practices (post construction) are contained within current permit for Construction Site Stormwater Runoff Control and Post Construction Stormwater Management ordinance	Regulations included in 4-1
4-3A	Review site plans (>1 AC) for SW impacts, including adequate erosion/sediment controls.	Building Inspector/ Planning Department	Develop protocol for reviewing plans (including training) in yr 2; begin reviews in yr 3.	Procedures for site plan reviews contained within current permit for Construction Site Stormwater Runoff Control and Post Construction Stormwater Management ordinance	Completed
4-3B	Ordinances and Revisions to building permit application structure to address drainage and storm water management issues	Building Inspector/ Planning Department/ Sewer Commission	Revise Building Permit applications requiring drainage plans. Pass ordinances regarding curbs and sidewalks, and regarding structure and driveway elevation relative to roadway.	Site Plan Review ordinance covers drainage requirements for all building permits	Completed

4-4	Consideration of public input for sites disturbing 1 > AC.	Building Inspector/ Planning Department	Allow public review & comment period and have signs w/phone # posted at construction site in yr 3 and thereafter.	This is only done for sites that come under the jurisdiction of the Conservation Commission	Post phone number at each construction site for comments or complaints.
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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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1	Develop a bylaw to apply Performance Standards 2, 3, 4, 7, & 9/3 of MSP to sites disturbing >1AC.	Law Department/ Planning/ Building Inspector	Develop ordinance & present to City Council.	Site Plan Review Ordinance approved by City Council in year 13	Completed
5-2	Specify a SW BMP manual in ordinance to be used for consistent design & performance standards.	Planning/ Engineering/ Conservation Commission	Specify a SW BMP manual to be included in the ordinance. MA DEP/CZM “Stormwater Management Volume 2: Stormwater Technical Handbook,” March 1997 was selected in yr 1.	Regulations included in 4-1	Regulations included in 4-1
5-3	Ensure long-term maintenance of structural BMPs.	Law Department/ Sewer Commission	Include provisions in the ordinance requiring developers to submit thorough specs for BMPs & provide maintenance funding. Present to City Council and implement when/if approved.	Completed.	Completed.

Revised		Law Department/ Planning/ Building Inspector	Provision for contractors to provide maintenance funding eliminated from bylaw due to not being politically feasible		
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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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1	Employee Training program.	Department of Public Works/ Sewer Commission/ Parks Dept/ Water Dept	Sewer, Water, DPW, & Parks field & maintenance staff shall receive at minimum one SW related training course per 5 yr permit (# or % trained/yr).	New training materials were acquired and Wastewater Treatment Plant and Collection systems employees, DPW and Parks employees were provided stormwater training in year 13	Continue with third 5 year training cycle, provide refresher stormwater training to Water treatment facility and Sewer and Water Dept employees in yr 14 and 15
6-2	Continue street & parking lot sweeping	Department of Public Works	All municipal parking lots & streets swept in spring, daily sweeping of commercial areas thru out year (tons removed).	The DPW conducts street sweeping. They reported annual sweepings (weighed at the landfill) of approximately <u>3120</u> tons for year 13, and approximately <u>81</u> miles swept yr 13.	Continue required street sweeping and have DPW compile tonnage, and mileage.
6-3	Storm drain maintenance.	Sewer Commission	Goal to clean all basins (≈ 5,000) at least once every 3-4 years(# cleaned).	Veolia Water reported that <u>1704</u> catch basins were cleaned and over <u>880.1</u> tons of grit was removed from catch basins and drain/sewer lines. In addition <u>81</u> catch basins were repaired. <i>*correction to yr 11 and 12 grit tonnage: the amount reported to me was the amount from pipe clean not CB clean, correct tons for yr 11 is 1051.09 tons, and yr 12 is 627.62</i>	Goal of > 1,700 catch basins cleaned per year

6-4	Evaluate street sweeping & catch basin cleaning equipment.	Department of Public Works/ Sewer Commission	Annual evaluation of street sweeping and collection system cleaning equipment for improvement or replacement.	Preventative and scheduled maintenance took place for the Collection System catch basin cleaning equipment which resulted in approximately <u>\$100,500.00</u> in repairs and maintenance. The DPW reported a total cost for repairs and maintenance the street sweepers of <u>\$6692.59</u> .	Continue ongoing equipment evaluations
6-5	Continue roadway-deicing procedures.	Department of Public Works	Calibrate equipment as needed, but at least once per yr. Keep salt in a covered facility. Maintain records of amount & type of deicers used annually.	Equipment calibrated annually. Salt stored in dome/shed. In Year 13 approximately <u>6000</u> tons of salt and <u>700</u> yds of sand were used by the FRDPW.	Continue practices and procedures as outlined herein.
6-6 Revised	Continue spill prevention & response measures at municipal facilities.	Department of Public Works/ Sewer Commission/ Water Dept	Continue training Sewer, Water, DPW & Parks workers on spill prevention & response annually. Update Spill prevention & response plan annually.	Spill prevention and response training continued in Year 13. Facilities reported that plans were updated. Spill prevention training is also included in the stormwater education materials.	Continue training and update spill prevention and response plan.
6-7	Maintain hazardous materials inventory.	Department of Public Works/ Sewer Commission/ Water Dept.	Continue to maintain an inventory of hazardous waste & materials that could contaminate SW to aid in the management of their use (Sewer, Water, DPW, Parks).	Each Department maintains their respective inventories	Continue to maintain inventories.

6-8	Minimize impacts from vehicle maintenance	Department of Public Works/ Sewer Commission/ Water Dept.	Minimizing impacts from vehicle maintenance through training and proper hazardous materials management & use reduction. Limit maintenance of vehicles to the inside of the respective maintenance facilities, or other similarly contained areas.	Training is ongoing, hazardous materials are tracked, and regular maintenance is restricted to the inside of facilities. Training about minimizing impacts from vehicle maintenance is also included in the stormwater education materials.	Continue practices and procedures as outlined herein.
6-9	Minimize impacts from vehicle washing.	Department of Public Works/ Sewer Commission/ Water Dept	Minimize impacts from vehicle washing by washing inside maintenance facilities or where water drains to sanitary or combined sewer systems	All maintenance facilities are located on combined sewer systems. No wash water goes to any separate drainage system. Training about minimizing impacts from vehicle washing is also included in the stormwater education materials.	Continue practices and procedures as outlined herein
6-10	Park & landscape maintenance.	Parks Dept	Train staff to minimize application of herbicides, pesticides, & fertilizers by end of yr 2. Keep records of amounts used thereafter.	Park Department reports that it has discontinued use of any and all herbicides, pesticides, and fertilizers prior to Year 6.	Minimize the use of and maintain records of any herbicide, pesticide, or fertilizer if it is ever used in the future.

6-11	Continue tree planting & maintenance program.	Parks Dept	Continue practice of planting about 100 trees per yr. and replacing trees that have been cut down. Keep records of # of trees planted.	A total of 1057 trees were planted in Fall River during year 13: Greening the Gateway Cities Tree Planting Project =957 ; FRSTPP = 72; Mass ReLeaf Ministry Grant = 14. Locations include Maplewood, Sandy Beach, Abbott Court Playground, North Park, Kennedy Park, Rotary at President Ave., Rotary at County and Pleasant St., Tansey School, Turner Playground, Aetna Playground and along city streets where citizens had requested them. Almost all of the trees planted by the FRSTPP, Inc., came from the Mary Ann Wordell Tree Farm.	The City will continue the urban tree farm project maintaining the Maryann Wordell Tree Farm, and continue working on plans for an additional tree farm site. The Fall River Street Tree Planting Program will continue to plant trees around the city annually.
6-12	Hold an annual Household Hazardous Waste Collection Day.	Department of Public Works	Hold an annual Household Hazardous Waste Collection Day once per yr.	With the closure of the landfill and the new PAYT program the City no longer holds a free annual Household Hazardous Waste Collection Day.	Develop an alternative to the annual hazardous waste collection day.
6-13	Continue to accept waste motor oil, batteries, & other items through regular drop off hours at the DPW garage.	Department of Public Works	Maintain regular drop off hours for waste motor oil, batteries, and other items at the DPW garage throughout the permit term for Fall River residents.	City residents can drop off paint (paint, paint thinner, varnishes and strains) from May – October on the first Friday and Saturday of the month. Oil can be dropped off the first Friday and Saturday of the month free of charge year round. Other waste items may be dropped from 7-3, Monday – Friday, and from 8-12 on Sat. Yard waste is now collected weekly in brown yard waste carts. Other yard wastes picked up per instructions and schedule posted online.	Continue program as delineated herein. Large items can be dropped off at garage, or scheduled for curbside pick-up with a paid sticker.
6-14	Continue enforcement of pet waste pick-up ordinance & frequent trash barrel emptying to encourage proper disposal.	Health Department/ Parks Department	Reduce complaints (if any) of pet waste in public areas by continuing to enforce the pet waste pick-up ordinance and empty trash barrels in public areas frequently.	Enforcement & trash pickup was continued. The Animal Control division enforces the ordinance and cites for failure to remove animal waste. It is staffed with 3 full-time Animal Control Officers, open 8AM- 4PM, 7 days a week. In addition, the City opened its first dog park in summer 2011.	Animal Control Division will continue to enforce the ordinance. The Park Dept. will continue with frequent trash pick-ups at parks and playgrounds. The DPW will be responsible for picking up other public area trash receptacles.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Not applicable. TMDL's have not been developed for any of the water bodies in Fall River.

Part IV. Summary of Information Collected and Analyzed

The stormwater fee is still in place at \$35 per quarter per ERU