

Municipality/Organization: City of Fitchburg

EPA NPDES Permit Number: MAR041189

MassDEP Transmittal Number: W-

Annual Report Number **Year 8**
& Reporting Period: **April 1, 2010 – March 31, 2011**

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2011)

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:



Printed Name: Lisa A Wong

Title: Mayor

Date:

5/4/11

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Part II. Self Assessment

The city of Fitchburg has completed the required self assessment and has determined that at the end of the eighth year reporting period the City was in compliance with all provisions of the approved NOI, except for the following provisions.

Part III PC-3: Operation and maintenance agreement:

Inspection and sampling of active construction sites has confirmed that selected BMP's have been effective in meeting storm water control goals and limits.

In addition to the efforts outlined in Part III of this report the City has, during the designated reporting period, continued a storm water sampling program in selected drainage basins. Over the course of the first seven years of the stormwater program illicit connection detection efforts have resulted in the detection of 14 illicit connections to the stormwater system. During the course of this reporting year, one additional, illicit connection was detected and mapped. All 15 illicit connections discovered during the eight years of the program were eliminated. Illicit connection detection to the storm water system continues to be an important part of the City's ongoing effort to map and characterize both the wastewater collection system as well as the storm drain system. To that end, the City has established a dedicated crew of three individuals that are assigned to the wastewater division. The collection system crew will, as part of their duties, be looking for illicit connection to the stormwater system. In addition, the City has recently added a full time civil engineer position to the Engineering Department. This individual will add to the capability of the City to monitor and analyze data related to stormwater issues. The City has formed a partnership with the Nashua River Watershed Association to conduct additional stormwater outfall sampling events during the year. The City is also an integral member of the Nashua River Greenway Committee. In part, the Committee's goal is to advocate for the protection, preservation, restoration, and responsible use Fitchburg's water resources, and riverfront land.

In year six of the program all known outfalls were inspected during dry weather. Samples were collected and analyzed for coliform bacteria, MBAS, and Nitrogen if flow was present. All outfalls were sampled during a rain event; samples were analyzed for Total coliform, E-Coli, MBAS, and Nitrogen. Sample results from five out of forty outfalls were identified as having elevated levels of bacteria. In this reporting year outfall samples from those five discharges were resampled and investigated for the possibility of illicit connections. Mapping and digital photos of all outfalls was completed during the sixth reporting period.

Summary of Minimum
Part III Control Measures

Illicit Discharge Detection
and Elimination

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1- 8	Planned Activities Permit year 9
ID-1	Storm Drain Map	DPW	Update Storm drain map	All known storm drains inspected for dry flow, sampled as necessary. All outfalls inspected and sampled during rain event. Mapping and digital photos completed. Resample and follow-up on target outfalls	New 3 person collections crew and Civil Engineer, tasked to allocate time to stormwater and illicit connection detection issues.
ID-2	Non-storm water discharge ordinance	Planning	Non-storm water ordinance	ordinance in place	Continue activity
ID-3	Industrial/Business Connections	IDC	Establish monitoring program	Continue survey of industrial and commercial connections as part of combined sewer separation project	continue program
ID-4	Illicit discharge elimination	BOH / DPW/Wastewater	Establish Program	Illicit connection program established. Total of 15 Illicit sewer connections to storm system identified and eliminated	continue program
ID-5	Illegal dumping task force	Public private partnership	Form Task Force Quarterly Meetings	City established environmental task force. A public and private partnership. Group activities include streamside clean-up, community policing of environmental issues, outreach to schools and volunteer participation	Continue program

Part III Summary of Minimum
Control Measures

BMP's for Meeting TMDL

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit year 1-8	Planned Activities Permit year 9
TM-1	Parking lot and street cleaning	DPW	Formalize Program	see municipal house keeping	continue activity
TM-2	Catch Basin cleaning	DPW	Formalize Program	see municipal house keeping	continuity activity
TM-3	Install deep sumps	Planning/ Engineering	Require all new development to install	Deep sumps installed in all new and rebuilt catch basins	continue activity
TM-4	Install gas and oil separators	DPW	Establish requirement	All new garage and other potential oil using activity required to install oil water separation	continue activity and inspect established locations for compliance
TM-5	Detention Basins	Planning/ Engineering	Establish design and requirement standards	Design and standards established. Enforce standards for new construction, inspect older construction for function and effectiveness	continue activity

Part III Summary of Minimum
Control Measures

Construction Site Runoff
Control

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1- 8	Planned Activities Permit year 9
RC-1	Site Plan Review	Planning Dept.	Establish standards	Revised standards requiring BMP. Implemented and applied to all new construction regulated under Planning Board	Continue activity
RC-2	Erosion/Sediment control ordinance	Planning Dept.	Develop Ordinance	Existing ordinance updated	continue activity
RC-3	Storm water Pollution Prevention Plan	DPW	Require Plan for all projects	Plan required for all sub-division projects and major construction projects	Review effectiveness of program
RC-4	BMP measures for sediment/erosion	Con-Com	Establish for construction sites	Con-Com reviews and inspects sites for compliance with approved plans and BMP	Continue practice

Summary of Minimum
Control Measures

Post Construction Runoff
Control

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1- 8	Planned Activities Permit year 9
PC-1	Post construction runoff ordinance	Planning Dept.	Develop Ordinance	Standards and program developed by joint effort between Con-Com and City Engineering. Formalized into planning board requirements.	Review effectiveness of requirements.
PC-2	Site plan review for post construction	Planning Dept.	Adopt Standards	Post construction site plan review conducted for all planned sub-divisions and major construction sites	Continue activity
PC-3	Operation and maintenance agreement	DPW	Develop Model	No progress made	Develop model and scope of work

Part III
Summary of Minimum
Control Measures

Public Involvement and
Participation

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1- 8	Planned Activities Permit year 9
PP-1	Watershed Organization	Water Dept. Public Private Partnership	Organize watershed Committee	Watershed land maps updated and overlaid on topo. maps. Sensitive land parcels identified and prioritized for purchase or protection. Work with Nashua River Watershed Group to perform storm water sampling identify illicit connections. work with North County Land Trust to establish conservation restriction on 1800 acres of watershed land. Purchase CR on 176 acres of private land for watershed protection. purchase in fee 100 acres of private watershed land.	Continue to pursue grant opportunities to protect additional watershed land and open space areas through conservation restrictions and purchase of private land in sensitive and critical watershed and buffer areas.
PP-2	Stream cleanings	DPW	Civic Clean up days	Community service work crews from Dept. of Corrections performed stream side clean up. Civic clean up days held each spring in all City wards. Stream clean up part of program.	Continue program. Work with Nashua River Watershed Committee sampling and stream inspection programs.
PP-3	Storm drain stenciling	DPW	Civilian stenciling program	No progress made on stenciling program	Effort will be made to start stenciling program

Part III Summary of Minimum
Control Measures

Public Education and
Outreach

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1 - 8	Planned Activities Permit year 9
PE-1	Partnership Program	Planning Dept.	Establish education and outreach program	City established environmental task force. Group activities include streamside clean-up, community policing of environmental issues, outreach to schools and volunteer participation. City is also a member of the Nashua River Greenway Committee	continue activity.
PE-2	Web Site Creation	Planning Dept.	Website for storm water pollution prevention	maintain City web site link to EPA storm water information	Continue activity
PE-3	Brochures and fact sheet	DPW	Door hangers distributed	Information mailer distributed via water and sewer bills	continue activity
PE-4	Classroom Education	School Dept.	50% of K-12 every 2 yrs.	Storm water education introduced as part of science curriculum grades 4 and 6	continue activity work with schools to expand education to other grade levels.

Part III Summary of Minimum
Control Measures

Municipal Good
Housekeeping

BMP ID #	BMP Description	Responsible Det./ Person	Measurable Goal	Progress on Goal Permit years 1 - 8	Planned Activities year 9
MH-1	Pet waste collection	BOH	Distribute brochures	Include educational material in water bill	continue activity
MH-2	Parking lot and street cleaning	DPW	Increase frequency	Street and parking lots sweeping program active nine months per year. All streets swept a minimum of twice per year. Main lines swept multiple times per year. Purchase new street sweeper	Continue program. Main Street now swept three times per week during summer and fall months.
MH-3	Catch basin cleaning	DPW	Implement program to track and increase frequency	Catch basin cleaning program active nine months per year. Additional man hours allocated to catch basin cleaning in year 8. Schedule in place to clean all catch basins in the city every two years.	continue program.
MH-4	Spill Response & Prevention	Fire Dept.	Formalize program provide education	Conduct annual review and training at specific sites including wastewater, water and DPW facilities	continue program.