5/8/06
mailed
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Municipality/Organization: Canton MA DPW

EPA NPDES Permit Number: MA041031

MaDEP Transmittal Number: W-036262

Annual Report Number & Reporting Period: No. 3 : March 05-May 06

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Michael Trotta Title: Superintendent of Public Works

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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: William Friel

Printed Name: William Friel

Title: Town Administrator

Date: 5/4/06

Part II. Self-Assessment

The Town of Canton has completed its annual report as summarized below:

1. Public Education and Outreach
    - Mailed landscaping and watering tips as part of Spring water bills
    - Held meeting with Conservation Commission to brief members on Stormwater Permit status
    - Scheduling community meeting with ConComm to present update

2. Public Involvement and Participation
    - Formed Stormwater Committee that includes ConComm, BOH, DPW, Capital Planning, Engineering
    - Continued work on Comprehensive Water Resource Management Plan. Submitted Phase II
    - Need to assess and re-establish stormwater goals and policies

3. Illicit Discharge Detection and Elimination
    - Continue drain connection permitting and review
    - Making on-going inspections for By-Law compliance
    - Need to complete Drain Mapping

4. Construction Site Stormwater Runoff
    - Article XX Soil Erosion and Sediment Control by-law in place
    - ConComm and DPW Engineering reviewing plans and permitting
    - ConComm Agent doing site inspections

5. Post Construction Stormwater Management
    - Have permitting requirements in place
    - Need to assess and re-establish goals

6. Good Housekeeping in Municipal Operations
    - Continued working on catch basin cleaning, street sweeping, and re-use

7. BMP's for Meeting TMDL
    - Made little progress during year.
    - Continued on-site inspections of current projects to ensure proper run-off and discharge of solids

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
1-1	Design-Distribute Brochures	DPW	Spring each year	Outdoor Water Conservation mailed Spring 06 Water Bill	Prepare mailing for Spring 07
Revised					
1-2	Air Stormwater info on CATV	DPW	Spring & Fall each year	No Action	Prepare/post information on car washing and water discharge
Revised					
1-3	Stormwater Committee (SWC)	ConComm	On going	ConCom, DPW, Eng. Have met Fall '05, Spring '06	Assess Program status Discuss & recommend changes
Revised					
1-4	Label Storm Drains	ConComm, SWC	Summer	No Action	Conservation Agent to organize and begin activity
Revised					
1-5	High School Education	Con Comm SWC	Fall/Winter	No Action	Conservation Agent to organize and begin activity
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
2-1	Enlist Citizens to Stormwater Committee	SWC	On going	Committee established Met Fall, 2005 March 2006	Assess Program status Begin discussion on Stormwater Enterprise By-Law
Revised	Stormwater Committee				
2-2	Enlist Groups to Label Storm Drains	ConComm SWC	Summer each year	Conservation Agent to organize and begin	
Revised					
2-3	Form Technical Committee	DPW/SWC	On Going	Received and commented on CWRM Phase II draft	Submit Phase II to MEPA/DEP for review
Revised	Technical Committee				
2-4	Review General Permit	TC/SWC	Summer, Fall 06, Winter, 07	Began discussion on Program status	Present Permit Audit to ConComm/BOS Determine next steps and funding
Revised					
Revised					
Revised					

2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
3-1	Drainage Map	DPW	Complete by 2005	No Action	Map out 90-95% approximately 150 structures to be identified
Revised			Complete by end of 2006		
3-2	Adopt Illicit Discharge By-Law	BOS	Completed		
Revised	Article XVI, Section 16 Town of Canton By-Laws				
3-3	Enforce By-Law	ConComm DPW	On going	Reviewing Drainage and Grading Plans Review Subdivisions	Continue Reviews and follow up site inspections
Revised					
3-4	Train DPW Staff in Outfall Inspection	TC/SWC/DPW	Late Summer, Fall 2006	No Action	Make Recommendation as part of SWC Permit Audit
Revised					
3-5	Dry Weather Outfall Inspection	TC/SWC/DPW	Late Summer, Fall 2006	Funding Authorized ATM 2006	Make Inspections as part of CWRM Plan Phase III
Revised					
Revised					

3a. Additions

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
4-1	Draft Erosion Sediment By-Law	ConComm	Complete	In Place	Review for Compliance
Revised					
4-2	Procedures for Erosion /Sediment Control	ConComm	Complete	Established	On going review
Revised			Article XX By-Law		
4-3	Procedures for site waste	ConComm	Complete	Established	On going review
Revised			Article XX By-Law		
4-4	Procedures for Site Plan Review	Con Comm DPW	Complete		On going review of plans
Revised			Article XX By-Law		
4-5	Procedures for enforcement	Con Comm Agent	Complete		On going enforcement of projects
Revised			Article XX By-Law		
Revised					

4a. Additions

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
5-1	Adopt Stormwater Management Policy	DPW	On going	Continued permitting private drain connections Reviewed grading plans for ConComm	Continue permitting and plan reviews Site inspections of Projects
Revised					
5-2	Review Stormwater BMP	DPW	Summer, Fall 2006 Winter 2006-2007	Set up SWC Began Discussion with ConComm	Audit Stormwater Program Make Recommendations
Revised					
5-3	Review Long Term O & M	DPW	On going	No Action	Draft O & M Plan for Streams & Dams
Revised					
Revised					
Revised					
Revised					

5a. Additions

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
6-1	Catch Basin Cleaning Program	DPW	Clean approx. 1100/year	Cleaned 650 basins 2005 Season	Continue Program
Revised					
6-2	Street Sweeping Program	DPW	Complete Spring & Fall Sweep	Completed 3 Full Sweeps Swept low areas after rain Swept CBD Weekly Apr-Oct.	Continue Program
Revised					
6-3	Procedure for Hazardous material	DPW	Yearly Collection	Held HHW Day	HHW Day May 13, 2006
Revised					
6-4	Procedure for CB cleanings	DPW	Yearly	Recycle Sweepings and CB cleanings with compost and gravel fill	Continue Program
Revised					
Revised					
Revised					

6a. Additions

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
7-1	Identify & Categorize Outfalls	DPW	Complete Survey Fall of 2006	No Action	Prepare Engineering RFP Begin Program
Revised					
7-2	Test Outfalls	DPW	Begin Testing 2006	No Action	Work with ConComm and SWC to begin program
Revised					
7-3	Identify Illicit Discharge Source	DPW	As needed based on Survey	No Action	Work with ConComm and Building Inspector as needed
Revised			As needed Program in 2006		
7-4	Eliminate Pollutant Discharge	DPW	Enforce as needed	No Action	Enforce By-Law as needed through plan review, on site inspections and written notices
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures	($)	52,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	May 13, 2006
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	N

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	77
Estimated or actual number of outfalls	(#)	232/300
System-Wide mapping complete	(%)	90
Mapping method(s)		
▪ Paper/Mylar	(%)	45
▪ CADD	(%)	
▪ GIS	(%)	100
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	72
% of population on septic systems	(%)	23

Construction

Number of construction starts (>1-acre)	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100 %
Site inspections completed	(# or %)	45
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and $)	
Complaints/concerns received from public	(#)	None

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	650
Storm drain cleaned	(LF or ~~mi.~~)	4500 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(~~lbs.~~ or tons)	225 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Compost/use
Cost of screenings disposal	($)	900

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	3
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	28

Qty. of sand/debris collected by sweeping Estimate	(lbs. or tons)	1280 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost/use
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	75 25
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	5
Automatic or Zero-velocity spreaders used	(y/n)	1
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N