

Municipality/Organization: Town of Canton
EPA NPDES Permit Number: MA 0410311
MassDEP Transmittal Number: W-03622
Annual Report Number & Reporting Period: Year 10
April 1, 2012 – March 31, 2013

4/26/13

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NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

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:



Printed Name: William Friel

Title: Town Administrator

Date: April 23, 2013

Part II. Self-Assessment

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

1. Public Education and Outreach

- Mailed landscaping and outdoor water use brochures as part of Spring water bills
- Presented Storm Water Maintenance NOI at Canton Conversation Committee on local cable TV
- With Neponset River Valley Watershed Association hosted water programs for elementary schools

2. Public Involvement and Participation

- Worked with Neponset River Valley Watershed Association on MA DEP water conservation grant
- Worked with Neponset River Valley Watershed Association on BMP development

3. Illicit Discharge Detection and Elimination

- Completed annual round of inspections
- Sampled 201 outfall sites

4. Construction Site Storm Water Runoff Control

- Continue plan review, permitting, and site inspection

5. Post Construction Storm Water Management

- Partnered with Neponset River Valley Watershed Association to review and site BMP's

6. Good Housekeeping in Municipal Operations

- Continue catch basin cleaning and street sweeping programs
- Held Household Hazardous Waste Day
- Installed new floor drain and gas/oil separator at Public Works Garage

7. BMP's for Meeting TMDL

- Sampled and tested 101 dry weather inspections
- Sampled and tested 100 wet weather inspections

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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-1 Revised	Design Distribute Brochures	DPW	Spring	Outside watering tips mailed in spring water bills. Storm water brochure distributed at DPW Office and Con Comm. meetings	Reassess activity under new MS4 permit
1-2 Revised	CATV	DPW	On going	Town Engineer discussed storm water with Con Comm.	Reassess activity under new MS4 permit
1-3 Revised	Storm Water Comm.	Con Comm. DPW	On going	Completed Storm Water Map update.	Work with Kleinfelder on NOI for NPDES MS4 Permit
1-4 Revised	Label Catch Basins	DPW	On going	Labeled basins as part of CB cleaning program.	Continue activity.
1-5 Revised	High School Educ.	Con Comm.		No action	Review BMP
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1 Revised	Storm Water Comm.	SWC	On going	Presented Outfall maintenance NOI and program to Canton Con Comm.	Assist in preparation for next MS4 General Permit
2-2 Revised	Label Catch Basins	DPW	On going	Continue labeling under CB cleaning program.	Continue activity.
2-3 Revised	Technical Comm.		On going	Worked with NRVWA to develop and review BMP	Define and site useful BMP with NRVWA.
2-4 Revised	Review General Permit	DPW	On going	Prepared annual report	Prepare for new MS4 General Permit
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1 Revised	Drainage System Map	DPW	On Going	Redrew system map.	Review map requirements of new MS4 General Permit
3-2 Revised	Article XVI By-Law		Completed		
3-3 Revised	Enforce By-Law	Con Comm. DPW	On going	Reviewed site and subdivision storm water and grading plans	Continue activity
3-4 Revised	Train Staff	DPW	On going	Attended storm water seminar presented by APWA and Engineering firms	Attend seminars and view web casts
3-5 Revised	Dry Weather Outfall Inspection	DPW	Complete Annual Round Inspections	Sampled and Tested 101 Locations	Continue activity
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1 Revised	Draft Erosion / Sediment By-Law	Con Comm.	Completed		
4-2 Revised	Erosion / Sediment By-Law	Con Comm.	Article XX TOC By-Law	On going review	On going review
4-3 Revised	Procedures for Site Waste	Con Comm.	Article XX TOC By-Law	On going review	On going review
4-4 Revised	Procedure for Site Plan Review	Con Comm.	Article XX TOC By-Law	On going review	On going review
4-5 Revised	By-Law Enforcement	Con Comm.	Article XX TOC By-Law	On going enforcement	On going enforcement
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1 Revised	Storm Water Management Policy	Building DPW Con Comm.	On going	Review Drain Connection Permits. Site plan reviews and follow up inspections.	Continue activity
5-2 Revised	Review Storm Water BMP's	DPW SWC	Fall / Winter 2010	Partnered with NR/VWA and CEI to develop BMP's.	Review BMP's with Neponset River Valley Watershed
5-3 Revised	Review Long Term O&M	DPW SWC	On going	Reviewed Site Inspection procedures with Building Inspector	Assess needs required by new MS4 General Permit
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1 Revised	Catch Basin Cleaning	DPW	Clean 1100 / Year	Cleaned 870 catch basins	Continue activity
6-2 Revised	Street Sweeping	DPW	Complete Spring and Fall Sweeps	Completed 3 full sweeps of all streets. Swept CBD twice monthly. Swept low areas after .5" rain.	Continue activity
6-3 Revised	Hazard Waste Materials	DPW	Yearly Collection	Held HHW Day May 12, 2012	Hold HHW Day May 11, 2013
6-4 Revised	Procedure for Catch Basin Cleanings	DPW	Yearly	Recycle sweepings and catch basins with compost or gravel fill	Continue activity
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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7-1 Revised	Identify and Categorize Outfalls	DPW	Spring and Fall	Working on annual round of inspections	Continue inspections
7-2 Revised	Test Outfalls	DPW	Test 50% of Outfalls	101 Dry Weather Sample and Test 100 Wet Weather Sample and Test	Continue activity
7-3 Revised	Identify Illicit Drainage Source	DPW Con Comm.	Sample as needed	None Identified	Continue Activity
7-4 Revised	Eliminate Illicit Drainage Source	DPW Con Comm.	Sample as needed	None Identified	Continue Activity
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2009 through March 31, 2010)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	167,000
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	6100
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
■ days sponsored ** ■ community participation ** ■ material collected **	(#) (# or %) (tons or gal)	May 12, 2012 166 Cars
School curricula implemented	(y/n)	

Legal/Regulatory

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

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	270
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	100
▪ GIS	(%)	
Outfalls inspected/screened ** 2011	(# or %)	201
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	873
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0
Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	75
% of population on septic systems	(%)	25

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(# or %)	10
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	1

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	2
Qty of structures cleaned **	(#)	870
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	1040 T
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial

Basin Cleaning Costs			
• Annual budget/expenditure (labor & equipment)**	(\$)		34000
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)		
• Disposal cost**	(\$)		
Cleaning Equipment			
• Clam shell truck(s) owned/leased	(#)		1 Owned
• Vacuum truck(s) owned/leased	(#)		
• Vacuum trucks specified in contracts	(y/n)		
• % Structures cleaned with clam shells **	(%)		100
• % Structures cleaned with vacator **	(%)		

		(Preferred Units) Response	
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)		14
Qty. of sand/debris collected by sweeping **	(lbs. or tons)		435 T
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)		Beneficial Use
Annual Sweeping Costs			
• Annual budget/expenditure (labor & equipment)**	(\$)		120,000
• Hourly or lane mile contract rate **	(\$/hr. or In mi.)		
• Disposal cost**	(\$)		
Sweeping Equipment			
• Rotary brush street sweepers owned/leased	(#)		1 Owned
• Vacuum street sweepers owned/leased	(#)		
• Vacuum street sweepers specified in contracts	(y/n)		
• % Roads swept with rotary brush sweepers **	%		100
• % Roads swept with vacuum sweepers **	%		

Reduction (since beginning of permit coverage) in application on public land of:
 ("N/A" = never used, "100%" = elimination)

■ Fertilizers	(lbs. or %)	
■ Herbicides	(lbs. or %)	
■ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	(Preferred Units) Response	
	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	80 20
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/in mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/in mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	