

TOWN OF CANTON
DEPARTMENT OF PUBLIC WORKS
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Municipality/Organization: Canton, MA/Department of Public Works

EPA NPDES Permit Number: MA 0410311

MassDEP Transmittal Number: W-03622

Annual Report Number

& Reporting Period:

April 1, 2006 – March 31, 2007

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2007)

Part I. General Information

Contact Person: Michael Trotta

Title: Superintendent

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Mailing Address: 801 Washington Street Canton, MA 02021

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:

7-27-07

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 watering as part of Spring water bills
 - Held meetings with Conservation Committee to form Storm Water Committee
2. Public Involvement and Participation
 - Storm Water Committee drafted Stormwater Management By-Law to establish goals and funding for BMPs
 - Continued work on Comprehensive Water Resource Management Plan-submitted Phase II, began Phase III
3. Illicit Discharge Detection and Elimination
 - Continue drain connection permitting and review
 - Making on-going inspection for By-Law compliance
 - Need to complete Drain mapping
4. Construction Site Storm water Run-off
 - Con Comm and DPW Engineering reviewing plans and permitting
 - Con Comm Agent doing site inspections
5. Post-Construction Storm water Management
 - Have continued plan review, permitting, and site inspection activities
 - Worked to develop storm water management By-Law
6. Good Housekeeping in Municipal Operations
 - Continued working on catch basin cleaning and street sweeping
7. BMPs for Meeting TMDL
 - Made little progress during year
 - Continued on-site inspection of current projects to ensure proper run-off and discharge

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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
1-1 Revised	Design-Distribute Brochures	DPW	Spring each year	Water Conservation mailed Spring 07 water bill	Continue Program
1-2 Revised	Air Stormwater Info on CATV	DPW	Spring & Fall	No Action	
1-3 Revised	Storm Water Committee (SWC)	ConComm	On going	ConCom , DPW Eng. met Fall 05, Spring 06, Fall 07	Assess Program Discuss and Recommend changes
1-4 Revised	Label Storm Drains	Con Com SWC	Summer 07	No Action	Complete Summer 07
1-5 Revised	High School Education	Con Com SWC	Winter 07 Spring 08	No Action	ConCom Conservation Agent to organize and begin activity
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2-1	SWC	SWC	On going	Met March 2006 October 2006	Present By-Law ATM 07
Revised				Propose Storm water Management By Law	
2-2	Label Storm Drains	SWC ConComm	Summer	No Action	Summer 07
Revised					
2-3	Technical Comm	DPW SWC	On going	Phase II CWRM Plan to MA DEP Began Work on Phase III	Complete Phase III CWRMP and Review
Revised					
2-4	Review General Permit	TC/SWC	On going	Assess Program Status Work on Storm water Management By Law	Present By law ATM 07
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3-1	Drain Map	DPW	Complete Winter 06	No Action	Map 90-95% Complete 150 Structures to be identified
Revised			Complete Winter 07		
3-2	Article XVI Town of Canton By-Law	BOS	Complete		
Revised					
3-3	Enforce By-Law	Con Comm DPW	On going	Reviewing Drainage and Grading Plan Review Subdivisions	Continue Reviews and Follow up site inspections
Revised					
3-4	Train DPW Staff	TC SWC DPW	Late Summer, Fall 2006	Engineering Staff attended outfall/drain seminar	Engineering Staff to assist DPW in training DPW work force
Revised			On going		
3-5	Dry Weather Outfall Inspection	TC SWC DPW	Late Summer, Fall 2006	Funded at ATM 2006	Make inspections as part of Phase III CWRMP
Revised			Late Summer, Fall 2007		
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4-1 Revised	Draft Erosion Sediment By-Law	Con Comm	Completed		
4-2 Revised	Procedures for Erosion/Sediment By Law	Con Comm	Article XX By Law	On Going Review	On Going Review
4-3 Revised	Procedure for Site Waste	Con Comm	Article XX By Law	On Going Review	On Going Review
4-4 Revised	Procedure for Site Plan Review	Con Comm DPW	Article XX By Law	On Going Review	On Going Review
4-5 Revised	Procedure for Enforcement	Con Comm	Article XX 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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5-1 Revised	Storm water Management Policy	DPW	On Going	Continued plan reviews and permitting Site inspections of Projects	Permitting, Plan Reviews, Site Inspections
5-2 Revised	Review Storm water BMP	DPW	Summer, Fall 2006 Winter 2006 Summer, Fall 2007	Worked with SWC and ConComm on Storm water Management By Law	Continue Storm water By Law Review Develop BMP
5-3 Revised	Review Long Term O & M	DPW	On Going	Began Draft of O & M Manual for Bolivar Street Dam	Complete O & M Manual for Bolivar Street Dam Review Shepard Pond Dam
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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6-1	Catch Basin Cleaning Program	DPW	Clean approximately 1100 /year	Cleaned 820 Basins 2006 Season	Continue Program
Revised					
6-2	Street Sweeping	DPW	Complete Spring & Fall Sweep	Complete 3 Full Sweeps Swept low areas after rain Swept CBD Weekly Apr-Oct	Continue Program
Revised					
6-3	Hazardous Waste Materials	DPW	Yearly Collection	Held Household Hazardous Waste Day May 13, 2006	Household Hazardous Waste Day May 12, 2007
Revised					
6-4	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 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
7-1 Revised	Identify & Categorize Outfall	DPW	Complete survey Fall of 2006	No Action	Complete mapping of outfalls Begin Program
7-2 Revised	Test Outfalls	DPW	Begin Testing 2006 Begin Testing 2007	No Action	Work with Con Comm to begin Program DPW Engineering to develop schedule
7-3 Revised	Identify Illicit Discharge Source	DPW	As needed based on survey	No Action	Based on survey and testing work with Con Comm and Building Inspector
7-4 Revised	Eliminate Pollutant Discharge	DPW	Enforce as needed	No Action	Enforce By Law as needed through plan review, site inspection, and written notice
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, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Storm water management position created/staffed	(y/n)	
Annual program budget/expenditures **	(\$)	56,000
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Storm water 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.)	
Houschold Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1- May 13, 2006
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
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 Storm water Management					
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Storm water Management					

Mapping and Illicit Discharges

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

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 %)	35
Tickets/Stop work orders issued **	(# or %)	
Fines collected **	(# and \$)	
Complaints/concerns received from public **	(#)	1

Post-Development Stormwater Management

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

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)	
Qty of structures cleaned **	(#)	820
Qty. of storm drain cleaned **	(%, LF or mi.)	3200 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	1100 TONS
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost/Use

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	29,800
• 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 vector **	(%)	

	(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)	25
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Compost/use
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	26,200
• Hourly or lane mile contract rate **	(\$/hr. or ln 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)	

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	75 25
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/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
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	
<ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area 	# or y/n	