Municipality/Organization:		Town of Canton
EPA NPDES Permit Number: MassDEP Transmittal Number:		MA 0410311
		W-03622
Annual Report Number	Year 1	1
& Reporting Period:		April 1, 2013 – March 31, 2014

# **NPDES PII Small MS4 General Permit Annual Report** (Due: May 1, 2013)

#### **Part I. General Information**

Contact Person: Michael Trotta	Title:	Superintendent of Public Works
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Mailing Address: 801 Washington St Canton MA 020		

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
- With Neponset River Valley Watershed Association hosted water programs for elementary schools
- Applied for and obtained Sustainable Water Management Initiative grant that includes a Stormwater Utility Feasibility Study

#### 2. Public Involvement and Participation

- Worked with Neponset River Valley Watershed Association on MA DEP water conservation grant
- Partnered with NRVWA to hold public meeting to discuss Sustainable Water Management Initiative

#### 3. Illicit Discharge Detection and Elimination

- Completed and updated Illicit Discharge Detection and Elimination plan documentation
- Prioritized catchments for investigation

#### 4. Construction Site Storm Water Runoff Control

• Continue plan review, permitting, and site inspection

#### 5. Post Construction Storm Water Management

• Contracted with Kleinfelder to update O&M Manual

#### 6. Good Housekeeping in Municipal Operations

- Continue catch basin cleaning and street sweeping programs
- Held Household Hazardous Waste Day
- Contracted to complete update to Town O&M manual for all infrastructure operations

#### 7. BMP's for Meeting TMDL

• Developing public education material specific to pathogen contamination based on existing TMDL and anticipated 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 11 (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. Stormwater 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 Stormwater 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					

1 – 6	Evaluate Stormwater Utility Feasibility	DPW	Obtain funding to complete study	Sought and obtained SWMI grant funding to conduct study	Complete study by end of Year 12 reporting period

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (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 Kleinfelder to update map and O&M manual	Develop comprehensive water resource plan focus on stormwater
2-4 Revised	Review General Permit	DPW	On going	Prepared annual report	Prepare for new MS4 General Permit
Revised				-	
Revised				-	

## 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (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 NRVWA and MAPC	Attend seminars and view web casts
3-5 Revised	Dry Weather Outfall Inspection	DPW	Complete Annual Round Inspections	Sampled and Tested 20 Locations	Continue activity
Revised					

## 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (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					

## 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 11 (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.	Continue activity
Keviseu				Site plan reviews and follow up inspections.	
5-2 Revised	Review Storm Water BMP's	DPW SWC	Winter 2013	Partnered with Kleinfelder to develop BMP's.	Quantify BMP's and include in CIP plan
5-3 Revised	Review Long Term O&M	DPW SWC	On going	Partnered with Kleinfelder to develop BMP's	O&M manual update is included in scope of work assigned to Kleinfelder
Revised					
Revised					
Revised					

# 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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1 Revised	Catch Basin Cleaning	DPW	Clean 1100 / Year	Cleaned 925catch 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 11, 2013	Hold HHW Day May 3, 2014
6-4 Revised	Procedure for Catch Basin Cleanings	DPW	Yearly	Recycle sweepings and catch basins with compost or gravel fill	Continue activity
Revised					
Revised					

6-5	Revise and update O&M Ops Manual	DPW	Year 12	Partnered with Kleinfelder to review stormwater procedures	All municipal ops will be reviewed in update of O&M manual

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7-1 Revised	Identify and Categorize Outfalls	DPW	Spring and Fall	Worked with Kleinfelder to revise map	Identify changes needed to meet SWMI and permit changes
7-2 Revised	Test Outfalls	DPW	Test 50% of Outfalls	Sampled 20 locations	Continue activity
7-3 Revised	Identify Illicit Drainage Source	DPW Con Comm.	Sample as needed	One Identified	Continue Activity
7-4 Revised	Eliminate Illicit Drainage Source	DPW Con Comm.	Sample as needed	One Removed	Continue Activity
Revised					
Revised					

## 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<i f applicable>>

### 7a. Additions

### 7b. WLA Assessment

### 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, 2014)

### Programmatic

	(Preferred Unit	s) Response
Stormwater management position created/staffed	(y/n)	Ν
Annual program budget/expenditures **	(\$)	348,000
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		
<ul> <li>days sponsored **</li> </ul>	(#)	May 11, 2013
<ul> <li>community participation **</li> </ul>	(# or %)	134 Cars
<ul> <li>material collected **</li> </ul>	(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")	1 11450 11	1 unionnes	Diated	ite vie w	Maopieu
Illicit Discharge Detection & Elimination					X
Erosion & Sediment Control					X
Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with "X")	i				
Illicit Discharge Detection & Elimination					
<ul> <li>Erosion &amp; Sediment Control</li> </ul>					
<ul> <li>Post-Development Stormwater Management</li> </ul>					

# Mapping and Illicit Discharges

Trapping and Inter Discharges	(Preferred Unit	s) Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	270
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
<ul> <li>Paper/Mylar</li> </ul>	(%)	
<ul> <li>CADD</li> </ul>	(%)	
<ul> <li>GIS</li> </ul>	(%)	100
Outfalls inspected/screened ** 2013	(# or %)	20
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	893
Illicit discharges identified **	(#)	1
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and	
	(est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and	1
	(est. gpd)	
% of population on sewer	(%)	75
% of population on septic systems	(%)	25

## Construction

(Preferred Units) Response

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Number of construction starts (>1-acre) **	(#)	1
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100
Site inspections completed **	(# or %)	6
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 **	(#)	920
Qty. of storm drain cleaned **	(%, LF or	
	mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	1105
		Т
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial

Basin Cleaning Costs		
<ul> <li>Annual budget/expenditure (labor &amp; equipment)**</li> </ul>	(\$)	126,000
Hourly or per basin contract rate **	(\$/hr or \$	
	per basin)	
<ul> <li>Disposal cost**</li> </ul>	(\$)	
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 vactor **	(%)	

	(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		
<ul> <li>Annual budget/expenditure (labor &amp; equipment)**</li> </ul>	(\$)	120,000
Hourly or lane mile contract rate **	(\$/hr. or	
	ln mi.)	
<ul> <li>Disposal cost**</li> </ul>	(\$)	
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
<ul> <li>% Roads swept with vacuum sweepers **</li> </ul>	%	

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

<ul> <li>Fertilizers</li> </ul>	(lbs. or %)
<ul> <li>Herbicides</li> </ul>	(lbs. or %)
<ul> <li>Pesticides</li> </ul>	(lbs. or %)
Integrated Pest Management (IPM) Practices Implemented	(y/n) Y

	(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 <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	80
Pre-wetting techniques utilized **	(y/n or %)	N
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	Ν
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)	(%)	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	

• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	