

**Municipality/Organization:** Town of Danvers, MA  
**EPA NPDES Permit Number:** MA 041188  
**MassDEP Transmittal Number:** W-040672  
**Annual Report Number & Reporting Period:** Year 10  
April 1, 2012 – March 31, 2013

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

### Part I. General Information

Contact Person: David B. Lane Title: Director of Public Works  
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Mailing Address: Town Hall – One Sylvan Street, Danvers, MA 01923

#### 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: Wayne P. Marquis  
Printed Name: Wayne P. Marquis  
Title: Town Manager  
✓ Date: 4-29-13

## Part II. Self-Assessment

As of the end of Year 10, the Town has achieved all of the measurable goals for the BMPs selected in the 2003 Notice of Intent and those added in subsequent years to reflect unplanned stormwater activities by the Town.

Noteworthy stormwater management activities completed in Permit Year 10 include:

- In February 2012, the Town of Danvers was awarded \$20,000 from the Massachusetts Bays Program Research and Planning Grant program to conduct a study to identify a sustainable funding mechanism for stormwater management.
- The **Sustainable Stormwater Funding Study** was completed in December 2012. The Sustainable Stormwater Funding Study is intended to provide information to local decision makers regarding creating a stormwater utility as a potential mechanism to fund the current and future stormwater programs in the Town of Danvers. The study:
  - Presents general information on stormwater utilities;
  - Presents a compelling case for a stormwater utility;
  - Summarizes the Town's current and future stormwater program priorities and costs;
  - Estimates a preliminary equivalent residential unit (ERU) and Danvers's projected revenue generated with an impervious-based user fee;
  - Identifies preliminary incentives for fee reduction;
  - Identifies potential pitfalls and risks;
  - Summarizes the stakeholder process and end-of study attitudes towards a stormwater user fee; and
  - Identifies the next steps, timelines and additional information necessary for the Town to further assess the feasibility of a local stormwater utility.
- **North Putnam Street Grounds and Forestry Facility Clean-up** – In May 2012, the Town reorganized and cleaned this facility. The Town repaved areas and installed a deep sump catch basin to collect stormwater runoff from the site before flowing to the MS4. DPW disposed of old materials (including paints, chemicals, and unused equipment), improved storage practices, and performed general maintenance at the facility.

Planned activities for the next permit term have not been designated unless a BMP under this permit term was not completed or is still in progress for completion. Once the General Permit for the next five years is available from EPA, the City will prepare and submit a Notice of Intent for compliance with the new General Permit.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 10</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities</b>
1-1	Articles about SWMP in the “What’s in the Works” Newsletter (Newsletter was formerly called “Light Touch)	Public Works	Articles sent to all residents Years 2-10	“What’s in the Works” Quarterly newsletter promoted town events which provide educational articles, brochures, and magnets with various advice for Stormwater Management to residents and businesses in Permit Year 10. See BMP #1-8.	Plan to continue providing information on Stormwater Management through the newsletter based on the new permit requirements.
1-2	Continue to educate dog owners about picking up pet waste	Board of Health	Fact sheet in annual dog registration mailing during Years 2-10	Pet Owner’s Manual is available on the Danvers Stormwater website along with stormwater facts. Four dog waste stations are located in Endicott Park along with proper pet waste disposal signs. The Town passes out a dog waste disposal brochure when giving dog licenses.	Plan to continue offering information to pet owners and supplying information on website based on new permit requirements.

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1-3	Develop and offer education programs to schools	Public Works and Con Com	Program developed in Year 5	<p>The Danvers High School Environmental Club was discontinued because of school budget cuts. Therefore, distribution of stormwater educational flyers and catch basins stenciling (see BMP #2-3) was not done.</p> <p>The Danvers Public School education program includes a pilot grant from MassDEP to incorporate recycling in all public schools.</p> <p>Salem Sound Coast Watch goes into the Danvers Public Schools annually and distributes educational materials. In Permit Year 10, Salem Sound Coast Watch went to the Middle School.</p> <p>Danvers High School and the Riverside Elementary School participate in the Green Team program sponsored by MassDEP and EOEEA.</p>	<p>Plan to continue working with the Middle School and High School to offer educational programs on stormwater based on the new permit.</p> <p>Pilot Grant to incorporate recycling in Public Schools will continue into Permit Year 11.</p>
1-4	Annual update of SWMP at a selectmen's meeting	Public Works	Annual Update of SWMP given	Annual update at the Selectmen's Budget meeting on March 22, 2012. No update was given during Permit Year 10.	Plan to continue updating the Board of Selectmen as needed on the SWMP based on the new permit requirements.

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1-5	Distribute educational materials	Public Works and Con Com	Distribution at annual events	<p>Continued availability and presentation of educational materials from Sudbury, Assabet and Concord Rivers Watershed Community Council (SUASCO) and Greenscapes events including: AWWA Water Week, APWA Public Works Week at Public Works Garage, Open House at Town Hall (10/11/2012), and Hazardous Waste Day at former Sanitary Landfill/Transfer Station.</p> <p>In addition, a display board for stormwater education was purchased from SUASCO and is located at Town Hall.</p> <p>The Danvers DPW also actively maintains a Twitter (79 followers) and Facebook (over 400 likes) page providing residents with information on Town Events, water conservation, hazardous waste disposal, and recycling.</p>	Plan to continue purchasing, displaying and distributing educational materials at annual events based on new permit requirements.

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1-6	Distribute “Greenscapes” educational materials	Public Works and Con Com	Distribution of educational materials	<p>The Greenscapes Newsletter, brochure and magnets were distributed during the April 28 &amp; 29, 2012 Earth Day Event and October 11, 2012 Town Hall Open House. These were all given away at the events and more are planned to be purchased to have available at Town Hall, the Library, and Town Events.</p> <p>On March 16, 2013, Salem Sound Coast Watch presented “Soak Up and Capture the Rain” a greenscaping workshop at the Peabody Institute Library in Danvers. The presentation discussed rain barrels, bioswales, vegetative buffers, and capturing rain water. The Program Coordinator for the Town of Danvers attended this session.</p>	Plan to continue purchasing, displaying and distributing Greenscapes educational products based on the new permit requirements.
1-7	Sell rain barrels and compost bins	Public Works	Sale of rain barrels and compost bins	Rain barrels and compost were sold to the residents at a reduced rate at the April 28 & 29, 2012 Earth Day event. Due to demand, more rain barrels were ordered. A total of 20 compost bins and 105 rain barrels were sold in Permit Year 10.	Plan to continue to sell rain barrels and compost bins at the April 27 & 28, 2013 Earth Day event to residents at a reduced rate.
1-8	Create and distribute a direct mail piece	Public Works	Completed Years 9 & 10	Created and distributed a direct mail flyer <i>Stormwater in Danvers</i> in February 2013 which describes stormwater and the NPDES Phase II program. Flyer also offers residents tips and tricks for keeping our stormwater clean and information on why stormwater matters.	None - Task completed.

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1-9	Pet Waste News Splash	Board of Health	Article in local paper, completed Year 9 and Year 10	<p>Dedicated a week to alerting pet owners about pet waste and the unsanitary conditions that can be left behind. “Dog Gone It – Follow the Pet Rules Posted in Danvers!” appeared in the Danvers Herald on February 29, 2012 and “Watch Your Step – Careless Dog Owners Frustrate Residents, Officials” appeared in the Salem News on February 27, 2012.</p> <p>Friends of Danvers Dog Park plans to have construction of a one acre dog park complete in the fall of 2013. The Dog Park Association has committed to picking up all dog waste at the new dog park.</p>	None – Task Completed
1-10	Carry In/Carry Out Policy	Public Works	Posted Signs	Signs are posted at all open space locations reminding residents of the Carry In/Carry Out policy of Danvers. Director of Operations presented policy at DEP roundtable on July 28, 2011. This policy was created to reduce trash and encourage residents to have ownership of the potential pollutants in the Town.	The DPW plans to post additional signs in Permit Year 11.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1	Form Stormwater Advisory Committee	Public Works, Con Com, Planning, Health, Water/Sewer Commissioner	Committee formed Year 1, meets twice annually thereafter	Held Advisory Committee meeting with Planning, Code, Health, Conservation Commission, and the Street Department.  A Stormwater Utility meeting was held on September 20, 2012 and a meeting with stakeholders regarding the Sustainable Stormwater Funding Study was held on November 29, 2012. Key stakeholders from the Town and Salem Sound Coast Watch attended.	Plan to continue holding Advisory Committee meeting twice within the year based on the new permit requirements.
2-2	Comply with State public notifications guidelines	Town Clerk	Notices posted in Town Hall and Library	Posted Notices.	Plan to continue posting notices based on the new permit requirements.
2-3	Provide stenciling materials	Public Works and Con Com	Materials provided Year 2	Catch basing stenciling was not performed during Spring and Summer 2012 because the Danvers High School Environmental Club was discontinued due to school budget cuts. See BMP #2-5, community services bulletin board.	Plan to reach out to Danvers High School and work on incorporating stenciling into an extracurricular activity.
2-4	Calendar Contest	Public Works	Printed Calendars	In the Fall of 2012, the DPW sponsored its annual Calendar for sixth graders at the Holten-Richmond School. This year's theme was Electrical Safety.	None – task competed. Plan to incorporate stormwater themes again in a future annual contest.
2-5	Community Service Bulletin	Public Works	Bulletin Board Posting	High school students are required to do various community service projects. Various options to complete stormwater program requirement are posted on a school bulletin board. One student volunteered in Permit Year 10.	Continue to use the Community Service Bulletin Board if volunteer opportunities are identified.

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2-6* (added)	Sandy Beach clean up	Town/Salem Sound Coast Watch	Coordinate Annual Sandy Beach Clean-up	High School community service volunteers participate in the annual Sandy Beach clean-up at the end of April. This event is coordinated by the Town and Salem Sound Coast Watch. Any work not completed by the volunteers is completed by the House of Correction workers in May. Following the clean-up, the Danvers Grounds Department replenishes sand, if needed. No additional sand was needed during 2012.	Continue to hold the annual Sandy Beach Clean-up.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1	Continue to conduct dry weather outfall screening	Public Works	Number of outfalls screened	Task completed as of 2004. Additional dry weather sampling was conducted in Summer 2010 and Fall 2011 for the Town’s 300 outfalls. The Dry Weather Outfall Screening and Illicit Discharge Detection and Elimination Program Report summarize the findings of the 2010 and 2011 sampling. Danvers has completed mapping its MS4 system, identified priority areas for additional work, developed procedures for locating illicit discharges and performed an outfall inventory and dry weather screening (sampled, mapped and photographed) at all of their outfalls.	Additional sampling delayed until new permit is issued.
3-2	Update mapping of stormwater outfalls	Public Works	Maps updated	The Town has completed mapping of outfalls and receiving waters, as required in the 2003 General Permit. Danvers also completed a fly-over of the Town in the Fall of 2012, which produced improved impervious cover information. The Town updated the GIS-based mapping with drainage infrastructure recently installed or rehabilitated.	Plan to continue improving the Town’s GIS drainage mapping based on the new permit requirements.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-3	Develop and implement plan to identify and remove illicit discharge	Public Works and Board of Health	Number of connections removed	<p>The <i>Bylaw to Regulate Illicit Discharges to the Municipal Storm Drain System</i> was adopted in 2011 and the DPW serves as the enforcement agency.</p> <p>Danvers has developed a program for dry weather screening that includes a checklist, sampling, and tracking in Microsoft Excel.</p> <p>Based on results from Summer 2010, additional sampling was conducted in Fall 2011. In 2010, there were 10 samples with elevated e.coli concentrations. In 2011 only 4 were found. Dye testing was conducted on all upstream properties for all locations for follow up. Two of the four samples were inconclusive for pollution source, one was a broken sewer and one is believed to be existing organics and animal waste. CCTV Inspection &amp; repair was conducted for the broken sewer.</p> <p>A spill response plan and procedures are in place and all spills are tracked.</p>	Continue to implement and enforce the Bylaw. Plan to update IDDE plan to be in accordance with the new permit requirements.
3-4	Continue to enforce inspection of sewer connection bylaw	Public Works	Number of inspections made	Bylaw enforced. All sewer service connections are inspected by the Town prior to backfilling. Danvers inspected approximately 32 new sewer connections (16 for two new subdivisions, 12 for commercial development, and 4 other residential).	Continue to enforce Bylaw that requires inspection of all new construction.

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3-5	Implement employee educational program	Public Works	Annual training provided	The DPW annual Snow and Ice Training was held on November 15, 2012, which included an IDDE training session. Approximately 35 Town employees attended.	Plan to provide stormwater training based on the new permit requirements.

#### 4. Construction Site Stormwater Runoff Control

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 10</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities</b>
4-1	ESC bylaw for construction sites >1 acre	Planning	Develop draft bylaw in Year 2, present to Town Meeting Year 3	At the May 2011 Town Meeting, Danvers adopted the Stormwater and Land Disturbance Bylaw, and the regulations were approved in March of 2012. The Bylaw and Regulations require erosion and sediment controls for all sites disturbing one acre or greater. Also see BMP # 5-1.	None, task complete. Continue to enforce bylaws.
4-2	Require waste management plan	Board of Health	Plan developed for each construction site	In Calendar year 2012 the Board of Health (BOH) pursued compliance in 4 cases of trash overloads and investigated 2 illegal dumpsites. BOH continues to permit garbage haulers and require dumpster registrations.	Plan to send out permit applications for dumpsters based on the new permit requirements.
4-3	Review site plans for stormwater impacts	Planning, Public Works and Con Com.	Number of site plans reviewed	Engineering reviewed 20 projects for stormwater management and drainage under local Site Plan Review, Subdivision, and Stormwater Management Bylaws.	Plan to review site plans for stormwater impacts based on the new permit requirements.
4-4	Provide public input for sites > 1 acre	Planning and Con. Com.	Number of public comment periods held	Planning Board reviewed 20 projects that required a public hearing for new construction (not all projects were > 1 acre).	Plan to place a notice in the local newspaper during the review phase of construction projects disturbing more than 1 acre to allow public review and comment based on the new permit requirements.

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4-5	Inspection of erosion and sediment controls	Planning, Building Inspector, Public Works and Con. Com.	Develop bylaw during Year 2, Present to Town Meeting Year 3	Various Town employees performed erosion and sediment control inspections as required by local Bylaws and Regulations (Wetlands Protection Bylaw, Stormwater and Land Disturbance Bylaw, Subdivision, et al.).	Plan to inspect subdivisions based on the new permit requirements.

## 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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1	Develop bylaw to apply MA SW Policy to entire Town	Planning, Con. Com. and Public Works	Develop bylaw during Year 2, Present to Town Meeting Year 3	At the May 2011 Annual Town Meeting, Danvers adopted the <i>Stormwater and Land Disturbance Bylaw</i> . Regulations were approved in March of 2012. The bylaw requires that all land disturbing activities greater than or equal to one acre obtain a stormwater permit, meet stormwater performance standards and develop a stormwater management plan. The Bylaw also includes non-monetary and monetary penalties, requirements and procedures for inspections.	None, task complete. Continue to enforce bylaws.
5-2	Specify SW BMP manual	Planning, Con. Com. and Public Works	BMP manual selected in Year 2	None, task completed in Year 1.	None, task complete.
5-3	Develop bylaw for maintenance of BMPs	Planning, Con. Com. and Public Works	Develop bylaw during Year 2, Present to Town Meeting Year 3	At the May 2011 Annual Town Meeting, Danvers adopted the <i>Stormwater and Land Disturbance Bylaw</i> , which included requirements for long-term operation and maintenance of stormwater facilities. Regulations were approved in March of 2012.	None, task complete.

## 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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1	Update sensitive receptor inventory	Con. Com.	Updated inventory	None, task completed in Year 1.	None, task complete.
6-2	Street Sweeping	Public Works	Sweeps streets annually	Swept all streets from starting in spring 2012 and continuing through first deicing event. Spoils are tested and documented prior to be disposed of. Danvers disposed of 901 tons of street sweepings.	Plan to sweep all streets in the spring (multiple times) based on the new permit requirements.
6-3	Roadway deicing	Public Works	Continue to calibrate equipment annually	Calcium chloride is used by the Town in the winter months as a deicer; salt is supplemented on an as needed basis. Deicer is tracked on a storm by storm basis and reported after each storm. The Town calibrated equipment during Fall 2012. Held Annual driver training day in November 2012 in preparation for the winter season. Staff was educated on salting application procedures.	Plan to modify deicing procedures based on the new permit requirements.
6-4	Minimize impacts from vehicle washing	Public Works	Maintain vehicle washing controls	Continued to use commercial car wash for small vehicles or wash vehicles inside DPW garage. Maintained the oil/water separator at the Public Works facility.	Plan to further improve the vehicle washing area to minimize potential for polluting stormwater runoff.
6-5	Minimize vehicle maintenance	Public Works	Continue to perform maintenance in garage	Conducted vehicle maintenance inside the DPW garage. Town purchased and operates a waste oil heating system to further reduce volume of waste oil. Maintained materials inventory.	Plan to continue vehicle maintenance inside the DPW garage, and maintain materials inventory based on the new permit requirements.

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6-6	Storm Drain maintenance	Public Works	Number of catch basins cleaned each year	Town hired contractor to clean and remove debris of approximately 1,200 (about 1/3) of Town's catch basins, and drain pipes as necessary.	The Town has allocated \$30,000 for catch basin cleaning and has the goal of cleaning 1/3 of the Town's catch basins. Plan to continue to use a contractor to clean and remove debris from the Town's catch basins and keep records based on new permit.
6-7	Park and landscape maintenance	Public Works – Parks Division	Amount of herbicides / fertilizers used	Updated Integrated Pesticide Management (IPM) for park maintenance procedures. Practiced green landscaping using integrated pesticide/herbicide management and products that were EPA approved and in accordance with the children's protection act. Kept maintenance records.	Plan to conduct training of any new staff based on the new permit requirements.
6-8	Stormwater Infrastructure Clean Up	Public Works	Culverts and outfalls cleaned Year 9 and Year 10	DPW Streets Division was able to spend time normally dedicated to snow removal and disposal to cleaning outfalls and culverts. Nine additional locations were cleaned this year.	Continue to perform extra unplanned drainage maintenance if budget is available.

**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)**

NOT REQUIRED; No approved TMDL reports for receiving waters in Danvers at this time.

**Part IV. Summary of Information Collected and Analyzed**

Results of illicit discharge investigations conducted by the Engineering Department are available upon request.

**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, 2012 through March 31, 2013)

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	Y
Annual program budget/expenditures **	(\$)	\$625,000
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc.)		General/Sewer Enterprise

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	13,000
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	0
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	.25 mi
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	217
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	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					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

## Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	300
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	95%
▪ CADD	(%)	1%
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	300
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	1
Illicit discharges identified (Since beginning of permit coverage)	(#)	1
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	99%
% of population on septic systems	(%)	<1%

## Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	
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	(%)	100%
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.)	1
Qty. of structures cleaned **	(#)	1,200
Qty. of storm drain cleaned **	(%, LF or mi.)	33.3%
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	10 Tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment) **	(\$)	\$45,000 – in-house/contract
• Hourly or per basin contract rate **	(\$/hr. or \$ per basin)	\$25/basin
• Disposal cost **	(\$)	Included in rate per basin
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vector **	(%)	0
	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr.)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr.)	1
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	901 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment) **	(\$)	\$32,000 – in-house/contract
• Hourly or lane mile contract rate **	(\$/hr. or Ln. mi.)	\$95/hour
• Disposal cost **	(\$)	\$26,246.82
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	0
• % Roads swept with vacuum sweepers **	%	0

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

	(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	95% NaCl 5% CaCl <sub>2</sub>
Pre-wetting techniques utilized **	(y/n or %)	Y
Manual control spreaders used **	(y/n or %)	0
Zero-velocity spreaders used **	(y/n or %)	8
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	0
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	0
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	0