

Municipality/Organization: Town of Danvers, MA
EPA NPDES Permit Number: MA 041188
MaDEP Transmittal Number: W-040672
**Annual Report Number
& Reporting Period:** No. 13: April 2015-March 2016

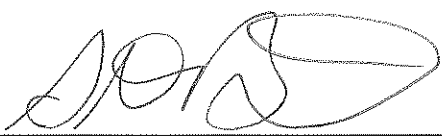
NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Sharon Clement **Title:** DPW Program Engineer
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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: Steve Bartha

Title: Town Manager

Date: 4/22/2016

Part II. Self-Assessment

As of the end of Year 13, 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.

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 Town will prepare and submit a Notice of Intent for compliance with the new General Permit.

Part III. Summary of Minimum Control Measures

The following sections numbered 1 through 7 detail the Best Management Practices (BMP's) as outlined in the Notice of Intent submitted in July 2003 and as updated in the previous Annual Reports No. 1 through 12. Please note that the Town of Danvers is following the conditions of the existing permit until a new permit is issued. Asterisks (*) note those BMPs that have revised schedules.

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
1-1	Articles about SWMP in the “What’s in the Works” Newsletter (Newsletter was formerly called “Light Touch”)	Public Works	Article sent to all residents Yrs. 2-13	“What’s in the Works” Newsletter included a section on Stormwater Spring 2016 and promoted town events which provided educational articles, brochures and cards with various advice for Stormwater Management to residents in Fall/Winter 2015. See BMP #1-8.	Plan to continue providing information on Stormwater Management through the newsletter based on the new permit requirements.

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1-2	Continue to educate dog owners about picking up waste	Board of Health	Fact sheet in annual dog registration mailing during Yrs. 2-13	Pet Owner's Manual is available on Public Health page on the Town of Danvers web-site along with stormwater facts on Public Works page. See BMP #1-9. 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. Topic is covered in "What's in the Works" Spring 2016 Newsletter as well.	Plan to continue offering information to pet owners and supplying information on website based on the new permit requirements.
1-3	Develop and offer education programs to schools	Public Works and Con Com.	Program developed and offered Yr. 5	The Danvers Public School education program includes a pilot grant from MADEP to incorporate recycling in all public schools. The public schools participate in the Green Team program sponsored by MADEP and EOEEA.	Plan to continue working with the Middle School and High School to offer educational programs on stormwater based on the new permit requirements.
1-4	Annual update of SWMP at a Selectmen's meeting	Public Works	Annual update of SWMP given	No update was given during Permit Year 13.	Plan to continue updating the Board of Selectmen 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	Continued availability and presentation of educational materials from Sudbury, Assabet, and Concord Rivers Watershed Community Council (SUASCO) and Greenscapes at events including: Open House at Town Hall, Earth Day Recycling and America Recycles Weekend at Town Hall and Hazardous Waste Day and Zero Waste Recycling Weekend at the former Sanitary Landfill/Transfer Station. In addition, a display board for stormwater education from SUASCO is located at Town Hall. The Danvers DPW also actively maintains a Twitter (from 285 followers last year to 403 followers) and Facebook (from 910 likes last year to 1,512 likes this year) page providing residents with information on Town Events, water conservation, hazardous waste disposal, and recycling. Social media metrics show Twitter growth of followers over prior year is 41% and Facebook growth of likes over prior year is 66%.	Plan to continue purchasing, displaying and distributing educational materials at annual events based on the new permit requirements. Continue to build a social media marketing program for Danvers DPW to keep residents informed about Stormwater topics.

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1-6	Distribute “Greenscapes” educational materials	Public Works and Con. Com.	Distribution of educational materials	Stormwater Matters postcards were distributed during the Earth Day Zero Waste Weekend on May 2 nd and May 3 rd 2015 at the Danvers High School, September 26, 2015 Household Hazardous Waste Day, the October 8, 2015 Town Hall open house, and Zero Waste Recycling Weekend November 7 th and 8 th 2015. The Greenscapes poster and brochures were showcased during the annual open house in October. Greenscapes materials are available at both Town Hall DPW Office and the Library. Several Greenscapes brochures are available on www.danvers.govoffice.com , Public Works page under current news and Information.	Plan to continue purchasing, displaying and distributing Greenscapes education 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 bins were sold to the residents at a reduced rate. A total of 20 compost bins and 75 rain barrels were sold in Permit Year 13.	Plan to continue to sell rain barrels and compost bins to residents at a reduced rate based on the new permit requirements.
1-8	Create and distribute a direct mail piece.	Public Works	Completed Years 9-10	No additional direct mail piece accompanied the “What’s in the Works: Newsletters for Permit Year 13	None Task Complete.
1-9	Pet Waste News Splash	Board of Health	Article in local paper, Completed Years 9-11	“Friends of Danvers Dog Park” plans to construct a one acre dog park. The Dog Park association has committed to picking up all dog waste at the new dog park. Also see BMP #1-2.	Plan to develop signage for the dog park.

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1-10	Carry In / Carry Out Policy	Public Works	Posted Signs	Signs were posted at all open space locations reminding residents of the Carry In /Carry Out policy of Danvers. This policy was created to reduce trash and encourage residents to have ownership of the potential pollutants in the Town. The policy is posted on www.danvers.gov/office.com under Danvers Recreation page.	None Task Complete.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
2-1	Form Stormwater Advisory Committee	Public Works, Con. Com., Planning, Health, Water/Sewer Commissioner	Committee formed Yr. 1, Meets twice annual thereafter	Stormwater advisory committee meetings were held on August 4, 2015 and November 18, 2015 and January 14, 2016 attended by Public Works and Engineering.	Plan to continue holding Advisory Committee meetings twice within the year based on the new permit requirements.
2-2	Comply with State public notification guidelines	Town Clerk	Notices posted in Town Hall and Library	Posted notices.	Plan to continue posting notices based on the new permit requirements.

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2-3	Provide stenciling materials	Public Works and Con. Com.	Materials provided Yr. 2	Catch basin stenciling was not performed during Spring and Summer 2015 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 Volunteer Fair (April 2016) and Danvers High School and work on incorporating stenciling into an extracurricular activity.
2-4	Calendar Contest	Public Works	Printed Calendars	Fall of 2015, the sixth graders at the Holten-Richmond Middle School created a DPW Calendar which included some tips for managing stormwater (Months: April, June, September)	None Task Completed.
2-5	Community Service Bulletin	Public Works	Bulletin Board Posting	High School students are required to do community service projects. Various options to complete the requirement are posted on a school bulletin and on the schools website. Danvers submitted multiple postings regarding stormwater for this bulletin. Many high school students volunteered at Town events in Permit Year 13 which totals 76.5 hours as of March 31, 2016.	None Task Completed.
2-6	Sandy Beach clean up	Town/Salem Sound Coast Watch	Coordinate Annual Sandy Beach Clean-up	There was no High School community service event this year. However clean-up was completed by the House of Correction workers.	Continue to hold 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
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 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 complete 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. Deployed iPads to Street Supervisor and Water Foreman. Completed delineation of catchment areas for all outfalls. Updated GIS Platform in year 13.	Plan to continue improving the town's GIS drainage mapping and data management based on the new permit requirements.

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3-3	Develop and implement plan to identify and remove illicit discharge	Public Works and Board of Health	Number of connections removed	The <i>Bylaws to Regulate Illicit Discharges to the Municipal Storm Drain System</i> was adopted in 2011 and the DPW serves as the enforcement agency. The town has continued its sewer cleaning and television inspection program, cleaning 80,000 feet of sewers so far in 2015. In addition the town has continued its spot repair program, completing nearly \$475,000 worth of dig and replace spot repairs and cured in place pipe lining in various locations to address severe sewer defects. A spill response plan and procedure are in place and spills are tracked. The Spill Prevention Control and Countermeasure Plan for the DPW Yard was updated during Permit Year 11. See BMP # 6-9.	Plan to update IDDE plan to be in accordance with the new permit requirements. The sewer cleaning program is expected to continue into 2016 when we anticipate completing the cctv and cleaning program to achieve 100% coverage of the town's system within the last 10 years. One additional round of sewer spot repairs will be undertaken before the Town will transition to comprehensive rehabilitation program for I/I control
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 permitted and inspected 13 new sewer connections.	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	DPW staff attended the Snow and Ice Training Session which included proper operations and equipment calibration. Training for the DPW Yard SPCC was conducted in Permit Year 13. Engineering attended Coastal Resiliency Seminar on November 10, 2015 from 8:00 – 1:30. On March 18, 2016 both the Program Engineer and Program Coordinator attended the Salem Sound Coastwatch 25th Anniversary Symposium titled, <i>“Finding Solutions to Coastal Challenges”</i>.	Plan to provide stormwater training based on the new permit requirements. DPW and Engineering plan to attend the “Creating a Revenue Stream for Stormwater Management” hosted by Baystate Roads on April 26, 2016.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
4-1	ESC bylaw for construction sites >1 acre	Planning	Develop draft bylaw in Yr. 2, present to Town Meeting Yr. 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.	Continue to enforce bylaws.
4-2	Require waste management plan	Board of Health	Plan developed for each construction site	In Permit Year 13 there were 19 solid waste complaints recorded by the Board of Health (BOH) where zero were sourced to construction sites. 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	Planning Board approved 11 sites for stormwater related site plans.	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 approved 11 site plans that required a public hearing for new construction (not all projects were > 1 acre).	Town conforms to Town bylaws, Conservation Commission and Planning Board Zoning Bylaws

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
4-5	Inspection of erosion and sediment controls	Planning, Building Inspector, Public Works and Con. Com.	Ongoing	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, and others.)	Plan to inspect construction sites 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
5-1	Develop bylaw to apply MA SW Policy to entire Town	Planning, Con. Com. and Public Works	Complete	At the May 2011 Annual Town Meeting, Danvers accepted the Stormwater and Land Disturbance Bylaw and the Bylaw to Regulate Illicit Discharges to the Municipal Storm Drain System. Regulations were approved by the Stormwater Authority at March 29, 2012 Public Hearing. The Bylaw requires that all land disturbing activities greater than 1 acre must obtain a stormwater management permit, meet performance standards, and implement a management plan, or face penalties.	None, task complete.
5-2	Specify SW BMP manual	Planning, Con. Com. and Public Works	BMP manual selected in Yr. 2	None, task completed in Year 1.	None, task complete.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
5-3	Develop bylaw for maintenance of BMPs	Planning, Con. Com. and Public Works	Complete	Requirements for the long-term operation and maintenance of BMPs were included in the Stormwater and Land Disturbance Bylaw and Regulations. See BMP # 5-1. During Permit Year 11, the Stormwater Management Permit application was revised to highlight the owner's responsibilities for maintenance and inspection reporting.	Continue to monitor and enforce operation and maintenance of private BMPs.

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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
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	Sweep streets annually	Swept all streets starting in spring 2015 and continued through first deicing event. All records were maintained.	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	Calibrated equipment during Fall 2015. Held Annual driver training day in November 2015 in preparation for the winter season. Staff was educated and reminded of salting application procedures.	Plan existing salting procedure based on the new permit requirements.

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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 in the designated station at the DPW garage. In the fall of 2013 a car wash station was constructed at the DPW yard. The station will capture all truck washing run-off and sediments/salts and direct the flow to a deep sump catch basin, then to a oil/grease separator, then to the sewer system.	Plan to control vehicle washing practices and procedures based on the new permit requirements.
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.
6-6	Storm Drain maintenance	Public Works	Number of catch basins cleaned each year	Town hired contractor to clean and remove debris from approximately 1,104 (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 requirements.

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6-7	Park and landscape maintenance	Public Works – Parks Division	Amount of herbicides / fertilizers used	Followed 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 Massachusetts Children and Families Protection Act. Kept maintenance records. Girl Scout planted an insect repellent garden at Gates Field (soccer fields) for her Gold Award August 2015.	Plan to train of any new staff based on the new permit requirements.
6-8	Stormwater Infrastructure Clean-up	Public Works	Culverts and outfalls cleaned	No Culvert work performed in period 13.	Planning to go out to bid for bank stabilization project on Frost Fish Brook. Continue to clean out Town's drainage system based on the new permit requirements.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
6-9 (added)	Good Housekeeping and Pollution Prevention Program	Public Works	Develop written program according to re-issued General Permit	In Permit Year 12, the Town-wide Good Housekeeping Plan was updated, including an inventory of Town facilities and activities and pollution prevention BMPs. The DPW Yard SWPPP was also developed. On April 17, 2014, Engineering and DPW staff received hands-on training during a DPW Yard site walk with their consultant to identify potential pollutant sources and possible illicit discharges to address in the DPW Yard Stormwater Pollution Prevention Plan.	Finalize the Good housekeeping Plan and DPW Yard SWPPP based on new permit requirements.

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

“The Town of Danvers’ MS4 discharges to North Coastal Watershed which has an approved Final TMDL for pathogens. Because pathogens are likely to be found in the stormwater discharges from the Town’s MS4 system, the Stormwater Management Program includes BMPs that address pathogen pollution prevention.

The Town of Danvers has implemented numerous efforts towards reducing pathogen WLA as reported in the above annual report.

To address the WLA for Illicit discharges to the storm drain and possible leaking sanitary sewer lines, the Town has implemented the following BMPs under the Illicit Discharge Detection and Elimination Minimum Control Measures:

- Completed dry weather screening in 2004 (BMP 3-1)
- Update mapping of stormwater outfalls (BMP 3-2)
- Developed and implemented a plan to identify and remove illicit discharges, including sewer spot repairs (BMP 3-3)
- Continue to enforce inspection of sewer connection by-law (BMP 3-4)
- Implement employee educational program, which included training on spill protections and response (BMP 3-5)

- Develop bylaw to apply MA SW Policy to entire Town, including illicit discharge bylaw (BMP 5-1)

To address the WLA for stormwater runoff subject to Danvers' NPDES Phase II permit, the Town has implemented the following BMPs in the Stormwater Management Program:

- Continue to educate dog owners about picking up waste, including providing 4 dog waste stations at Endicott Park (BMP 1-2)
- Distribute educational materials (BMP 1-5)
- Pet Waste News Splash (BMP 1-9)
- Carry In/ Carry Out Policy (BMP 1-10)
- Require waste management plan for each construction site (BMP 4-2)
- Street sweeping and Storm drain maintenance to prevent debris from entering waterbodies (BMPs 6-2 and 6-6)
- Good Housekeeping and Pollution Prevention Program draft was written for clarity of responsibilities and goals regarding. Numerous activities included to prevent pathogen pollution (BMP 6-9).

Part IV. Summary of Information Collected and Analyzed

Not applicable.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

	(Preferred Units)	Response
Estimated number of residents 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.)	0.25 mi
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(#)	274
▪ material collected	(tons or gal)	7.55 tons
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				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	(%)	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	(#) (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#) (est. gpd)	0
% of population on sewer	(%)	99%
% of population on septic systems	(%)	<1%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre)	(#)	11
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

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 %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, ect	(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	(#)	1,104
Qty. of storm drain cleaned	(%, LF or mi.)	33.3%
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	125 tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	(location)	Landfill
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)	(\$)	29,856
• Hourly or per basin contract rate	(\$/hr or \$ per basin)	\$
• Disposal cost (included in contract rate)	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(#)	0
• % Structures cleaned with clam shells	(%)	100%
• % Structures cleaned with vactor	(%)	0%

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)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)	(\$)	
• Hourly or lane mile contract rate	(\$/hr or \$ per ln mi)	
• Disposal cost	(\$)	

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	%	100
• % Roads swept with vacuum sweepers	%	0

Reduction in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers (Confirm with Chuck)	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	0
▪ Pesticides	(lbs. or %)	0
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	95% NaCl 5% CaCl ₂
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	0
Automatic or Zero-velocity spreaders used	(y/n)	8
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs./ln mi or %)	0
Estimated net reduction or increase in typical year sand application rate	(±lbs./ln mi or %)	0
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	1

100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y
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Water Supply Protection

Stormwater 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