

Municipality/Organization: Town of Webster, MA

EPA NPDES Permit Number: MAR041170

MassDEP Transmittal Number: W-21004707

Annual Report Number

& Reporting Period: No. 15: April 1, 2017 – March 31, 2018

NPDES EPA Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Kenneth L. Pizzetti

Title: Highway Superintendent

Telephone #: (508) 949-3862

Email: highway.department@webster-ma.gov

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: Andrew Jolda

Title: Chairman, Board of Selectmen

Date:

4-26-18

Part II. Self-Assessment

In Permit Year 15 (April 1, 2017 through March 31, 2018), the Town of Webster continued to implement its Stormwater Management Program. As part of developing the annual report, the Town evaluated compliance of the stormwater management program with the conditions of the NPDES General Permit for Stormwater Discharges from Small MS4s, effective May 1, 2003, as required by Part II.D.1 of the permit. This year's evaluation shows the Town has continued to implement the Best Management Practices (BMPs) identified in the Notice of Intent (NOI) and met many of the measurable goals for these BMPs, and has continued to meet General Permit requirements.

As part of the annual report development, the Town also evaluated the appropriateness of its BMPs in efforts towards achieving the defined measurable goals. In previous years, some BMPs and measurable goals were improved. This year, BMPs and measurable goals continue to be appropriate.

The Town continued work on the comprehensive stormwater management program during Permit Year 15, as well as support the efforts of volunteer (e.g., Webster Lake Association, French River Connection) and governmental (e.g., Central Massachusetts Mosquito Control Program) organizations.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

Note that the “Planned Activities” column has been deleted from this Annual Report. In Fiscal Year 2019, the Town of Webster will focus on compliance with the new requirements of the 2016 MA Small MS4 General Permit, including assessment of existing stormwater practices, policies, and Town-wide stormwater-related programs, preparation of the Notice of Intent, and implementation of Best Management Practices to address the permit requirements for each Minimum Control Measure.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15
1.a.	Educational Flyers and Pamphlets Town Website	DPW	# of materials created and distributed # of hits on town website	In Permit Year 15, Webster maintained stormwater information and links on the Town Conservation Commission webpage, including a fact sheet about improving water quality entitled “Keep Your Grass Green and Water Blue.” The Town continues working in collaboration with the two volunteer watershed associations representing the major lake and river in Webster – the Webster Lake Association and the French River Connection. Both of their websites discuss watershed cleanups, water quality and monitoring efforts, and other stormwater BMPs.
1.b.	Newspapers – Press Releases	DPW	# of stormwater related articles published	The Earth Day cleanup was held on May 6, 2017. The event was advertised on the Town’s website and sponsored by the Webster Arts and Recreation Committee.
1.c.	Local Cable Access Channel	DPW	# of public service announcements made on television	During previous years, other stormwater-related information, including stormwater management related PSAs and presentations made to the Selectmen on Webster’s stormwater bylaws, were aired.
1.d.	Hazardous Waste Collection Day	DPW	# of people participating/list of materials collected	A Hazardous Waste Collection Day was not held during Permit Year 15, but Webster residents can bring hazardous waste to the NEDT Household Hazardous Products Collection Center, which is located in Sutton, for a fee. The Town’s Health Department maintains information about household hazardous waste and the NEDT Collection Center on its website.
1.e	Educational Training Materials	CMRSWC <i>Revised: DPW</i>	# of events where training materials are used	In previous permit years, the Town had materials such as an Enviroscope table (an educational tool focused on non-point source pollution) and water quality monitoring kits from the World Water Monitoring Challenge program made available by CMRSWC.

2. Public Involvement and Participation

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BMP ID # ¹	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15
2.a	Storm Drain Stenciling	DPW	# of drains stenciled	Stenciling was completed in previous permit years, and no additional storm drains were stenciled in Year 15. The Town installed multiple stormwater outfall markers throughout town as part of the dry weather outfall monitoring program.
2.b	Stream Cleanup and Monitoring	DPW	# of participants and locations of streams	<p>Webster Lake Association volunteers conducted water quality sampling in Webster Lake and 3 tributaries in the spring, summer, and fall of 2017. Constituents monitored included temperature, DO, conductivity, turbidity, and pH.</p> <p>The Town also collected water quality samples at various locations around Webster Lake, including multiple at Memorial Beach and a campground beach, on a weekly basis from June through August 2017. There were no exceedances of E. coli water quality standards.</p> <p>In July and August 2017, volunteers from the French River Connection completed 2 sampling efforts at 16 locations within the French River Watershed, 5 of which were located in Webster. Volunteers monitored temperature, pH, conductivity, turbidity, and dissolved oxygen at various points along the River. The Town of Webster assists the French River Connection efforts by maintaining the cleanliness and integrity of the French River Park and other recreational areas along the French River.</p>
2.c.	Roadside Cleanup Day	DPW	Hold volunteer-driven clean-up day once per year	The Town of Webster conducted an Earth Day roadside cleanup during Permit Year 15 on May 6, 2017 sponsored by the Webster Arts and Recreation Committee. Town staff assist in the cleanup by collecting and disposing of the bags of waste.
2.d	Attitude Survey	BMP determined to be infeasible in Permit Year 4 due to lack of funding and staff expertise. Webster has added BMPs 2.e and 2.f below to improve this Minimum Control Measure.		

¹ BMP numbering for this Minimum Control Measure were revised to match the 2003 NOI. The numbering was inadvertently changed in Permit Year 10 (2013).
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BMP ID # ¹	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15
2.e	Stormwater Management Committee	DPW	# of meetings held	The Stormwater Management Committee met once during Year 15 in November 2017 to discuss the General Permit requirements and next steps in the Town’s stormwater management program, including filing a Notice of Intent and developing a Stormwater Management Plan. The Stormwater Management Program is now directed by the Town’s Highway Superintendent. The Highway Superintendent coordinates with the Town Administrator, Highway Department, Planning Department, DPW, and Water/Sewer staff.
2.f	Educational Outreach Materials		# of presentations	This one-time BMP was added in Permit Year 10, which included two public presentations about Webster’s stormwater program that were also televised on local cable TV. Issues impacting stormwater management and water quality were discussed during public meetings and Planning Board meetings periodically throughout Year 15, such as new construction projects meeting stormwater management requirements.

3. Illicit Discharge Detection and Elimination

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BMP ID # ²	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15
3.a.	Mapping of Stormwater Outfalls	DPW	# outfalls	The Town has developed a map showing the locations of the 288 known stormwater outfalls and receiving waterbodies, as required by the 2003 MS4 General Permit. In addition, drainage system mapping is substantially completed (including catch basins, drainage manholes, and pipes). Field verification of locations and connectivity mapping is ongoing.
3.b	DPW Employee Education	This BMP was complete in Permit Years 1-8 and then in Permit Year 9 this BMP was continued and moved to Minimum Control Measure 6 for reporting. See BMP 6.e.		
3.c	Capital Planning/Budget	DPW	Amount of money needed for future projects	The Town completed a Stormwater Utility Feasibility report in 2015 to assist with evaluating the options for stormwater financing. The Town has completed a substantial amount of the requirements of the 2003 and 2016 General Permits through a 5-year State Revolving Fund project that ended in January 2018. Funding for Fiscal Year 2019 stormwater work will come from the General Fund.
3.d	Assess Current By-Laws/Amend to Meet Phase II Regulations	DPW	By-Law Language to prohibit illicit discharges	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw includes sedimentation and erosion control, post-construction and illicit discharge components. Specifically, this bylaw prohibits non-stormwater discharges to the MS4 and includes appropriate enforcement authority.
3.e.	Identification of Outfalls	DPW	# of outfalls located	288 stormwater outfalls have been identified based on record plans which were digitized in GIS, and all have been field verified. The outfall inventory and dry weather screening is complete for these outfalls. The number of outfalls was refined in Permit Year 14 by eliminating MassDOT, WWTF, and other private outfalls from the town’s responsibility of the MS4. Approximately 20 outfall markers with unique identifying labels were placed in Year 12. In a previous Permit Year, the CMRSWC purchased two Leica surveying devices that may be utilized by the Town as needed to complete field verification of outfall locations. CMRSWC and student volunteers assisted the Town with outfall inspections and dry weather screening for approximately 35

² BMP numbering for this Minimum Control Measure were revised to match the 2003 NOI.
Town of Webster Annual Stormwater Report #15

BMP ID # ²	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15
				<p>outfalls. There was no evidence of illicit discharges.</p> <p>During Permit Years 13 and 14, the Town’s consultant completed dry weather screening and monitoring at every known outfall in Town. Samples were collected at 6 outfalls that had dry weather flow. No outfalls had any indication of illicit discharges. More information is available in the full IDDE report at the Highway Department.</p>
3.f.	BMP Installation	DPW	# of BMP’s installed	<p>This BMP was added in Permit Year 8 and several BMPs have been installed around Webster Lake and on municipal properties. No new BMPs were installed in Permit Year 15.</p>
3.g.	IDDE Program Development	DPW	# IDDE locations identified	<p>A written IDDE program was developed during Permit Year 12. The program includes action plans for non-stormwater discharges, sanitary sewer overflows, stormwater system mapping, verifying regulations applicability, assessment and priority ranking of catchments, and identification, removal, and prevention of illicit discharges. The IDDE program also contains preliminary drainage system and catchment maps. As additional IDDE efforts are completed, such as the outfall inventory/dry weather monitoring completed in Permit Year 14, the gathered data and information are added to the Town’s IDDE program.</p> <p>The Town’s stormwater consultant held a refresher training on the IDDE Program in October 2017, which the Highway Superintendent attended.</p>
3.h.	Inspecting Stormwater System Components	DPW	# of inspections completed	<p>A comprehensive written Town-wide Municipal Good Housekeeping and Pollution Prevention Program was developed in Permit Year 12. CMRSWC Standard Operating Procedures (SOPs) and Town SOPs were created and can be utilized to address catch basin and constructed BMP inspection, oil/water separator maintenance, and private drainage connections. The Town has tablets that may be utilized for recording these inspections using the Collector App.</p>
3.i.	Develop Stormwater Management Program Web based GIS system	DPW	Implement GIS system for DPW and other town staff	<p>A web-based GIS system deployed in Permit Year 11 assists with implementing and managing the stormwater program, including outfall mapping, monitoring, IDDE program, permit tracking, and site plan review. The stormwater GIS system is continuously updated with new information as it becomes available, including data collected during the outfall inventory/dry weather screening effort completed in Permit Year 14.</p>

4. Construction Site Stormwater Runoff Control

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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 15
4.a.	Site Plan Review	Planning Board, Conservation Commission	# of sites reviewed prior to construction	Prior to approval and construction of projects under Site Plan Review, the Planning Board, Conservation Commission, Zoning Board, DPW Director, Building Commissioner, Board of Health director, and Water & Sewer superintendents review all proposals. The Town received 6 plans for Site Plan Review and 8 ANR requests between April 2017 and March 2018. The Conservation Commission also reviewed 30 Notices of Intent for compliance with the MA Stormwater Management standards under the MA Wetlands Protection Act.
4.b.	Building Permit Requirement	Building Dept.	# of simple stormwater permits issued # of building permits issued	In the draft <i>Rules and Regulations for the Management of Stormwater</i> , the Building Inspector is the authorized enforcement agent of the Planning Board to review and approve a Simplified Stormwater Permit (SSP). Since these regulations have not been adopted, the Building Inspector has continued to enforce projects under his purview (i.e., Zoning).
4.c.	Inspection	Planning Board/ Conservation Commission DPW	# of sites inspected	Construction phase site inspections are performed routinely for projects before Planning and Conservation. For example, site visits are performed at least weekly during the construction of subdivisions, and more often during crucial points of construction. Compliance with approved specifications during every step of the construction project is identified by using sign-off sheets.
4.d.	Assess Planning Board Regulations/Amend to meeting Phase II Regulations	Planning Board	Regulations to control runoff from construction projects Permit tracking system	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw requires erosion and sediment controls at construction sites that disturb 10,000 sq. ft. or more, development that will increase lot imperviousness over 25%, and any land alteration in “hotspots” (i.e., land use with higher potential pollutant loadings per MA Stormwater Standard #5). Rules and regulations for this Bylaw will be adopted once the 2016 General Permit becomes effective.
4.e.	Erosion and Sedimentation Control Standard Operating Procedure (SOP)	Building Inspector/ Planning Board	Erosion and Sedimentation Control SOP	The CMRSWC SOP for Erosion and Sedimentation Control is included in Town-wide Municipal Good Housekeeping and Pollution Prevention Program. The SOP describes practices to minimize discharges from land-disturbing activities and addresses design, planning, construction, and inspection practices.

5. Post-Construction Stormwater Management in New Development and Redevelopment

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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 15
5.a.	Eliminating Curbs and Gutters	Highway Superintendent	# of curb cuts made in existing developments	The Town issued 12 curb cuts between April 2017 and March 2018.
5.b.	Urban Forestry	DPW	# of trees planted as a result of urban forestry	No trees were planted by the Town during the reporting period due to budget constraints, however 2003 measurable goals have been met in previous years.
5.c.	Zoning	Office of Community Development	The amount of open space protected by zoning codes	There were no changes to the zoning code this Permit Year.
5.d.	Assess Town Regulations/Amend to meet Phase II Regulations	Planning Board	Regulations to control post-construction runoff Permit tracking system	The Town adopted Chapter 570 Stormwater Management Bylaw on October 15, 2012. This bylaw regulates stormwater runoff from new development and redevelopment projects that disturb 10,000 sq. ft. or more, development that will increase lot imperviousness over 25%, and any land alteration in “hotspots” (i.e., land use with higher potential pollutant loadings per MA Stormwater Standard #5). Rules and regulations for this Bylaw will be adopted once the 2016 General Permit becomes effective. Records for permits issued are maintained in the Planning and Conservation offices.
5.e.	Stormwater Best Management Practices (BMP) Tool Box	Building Inspector	Stormwater BMP technical data, design factors, and construction limitations for single family and small commercial projects	The CMRSWC developed a Toolbox that consists of Standard Operating Procedures that can be used to inspect constructed BMPs. The Town has evaluated these documents and has included them in the Town-wide Municipal Good Housekeeping and Pollution Prevention Program for use as needed.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

Note that the “Planned Activities” column has been deleted from this Annual Report. In Fiscal Year 2019, the Town of Webster will focus on compliance with the new requirements of the 2016 MA Small MS4 General Permit, including assessment of existing stormwater practices, policies, and Town-wide stormwater-related programs, preparation of the Notice of Intent, and implementation of Best Management Practices to address the permit requirements for each Minimum Control Measure.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 15
6.a.	Parking Lot and Street Cleaning	Highway Superintendent	# of scheduled road cleanings	In Permit Year 15, all streets were swept at least once in the spring. Major streets and highly used areas in town received additional sweeping as needed.
6.b.	Road Salt/Sand/Mix Application and Storage	Highway Superintendent	Cubic yards of salt/sand/mix applied to roadways & location of storage	In Permit Year 15, the Town continued to use ClearLane Enhanced Deicer (no sand). Approximately 1,700 tons of ClearLane were used during this Permit Year.
6.c.	Drain System Cleaning	Highway Superintendent	# of storm drains cleaned regularly	43 catch basins were cleaned within the reporting period. The town cleans a portion of the catch basins each year, rotating through areas of town.
6.d.	Outfall Cleanup and Monitoring	DPW	# of outfalls examined and cleaned	The Highway Department routinely inspects priority outfalls before and after the winter, and completes maintenance on an as-needed basis. Central Mass Mosquito Control continued to clean roadside culverts and streams in Webster this Permit Year.
6.e.	DPW Employee Education	DPW	# Employees Trained; # Facilities	Internal training sessions were held for DPW employees during Year 15, which include topics about stormwater management, such as catch basin cleaning and identifying illicit discharges, as-needed. The Highway Superintendent is a member of the Worcester County Highway Association and attends meetings which include stormwater management topics.
6.f.	Municipal Operation and Maintenance Procedures	DPW	Guidance for Municipal Activities	A comprehensive written Town-wide Municipal Good Housekeeping and Pollution Prevention Program was developed in Permit Year 12. This document was prepared in accordance with the 2016 Permit requirements and includes a facility inventory, descriptions of activities at each facility, potential pollutants, and SOPs to provide guidance on activities such as oil/water separator maintenance, use and storage of pesticides and fertilizers, solid waste management, chemical handling, spill response and cleanup, and municipal vehicle washing, storage, and maintenance/repair.
6.g.	Sump Pump Discharge Policy	DPW	Sump Pump Discharge Policy	The Town has evaluated the CMRSWC Sump Pump Discharge Policy, and determined it should not be incorporated into local rules and regulations or other formal documents. Discharges from sump pumps will be addressed as part of the Town’s IDDE program, as necessary.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) Permit Year 15
6.h.	Salt/Sand Benchmarking	DPW	Salt/Sand Benchmarking tool	The Town has evaluated the CMRSWC Salt/Sand Benchmarking tool for potential incorporation into rules and regulations, and determined this tool should not be incorporated into rules and regulations, but should be used as needed once the 2016 General Permit is effective.
6.i	Municipal SWPPP	DPW	Develop Stormwater Pollution Prevention Plans (SWPPP) for Municipal Facilities	A SWPPP for the Town's Highway Facility was developed in Permit Year 12. The SWPPP meets requirements of the 2016 General Permit, and includes descriptions of the pollution prevention team, the site, potential pollutant sources; stormwater control measures, schedules, and procedures; and reporting and recordkeeping requirements. A separate SWPPP was prepared in Permit Year 13 for the Wastewater Treatment Facility, which is covered by EPA's MSGP. The SWPPP is available at the WWTF.

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

None required. There are no final TMDLs in Webster.

According to the 2016 Massachusetts Small MS4 General Permit, a portion of Webster is located within the Long Island Sound watershed, which has an approved TMDL for Total Nitrogen. The Town currently reduces nitrogen impacts by regular street sweeping. Nitrogen-reducing SOPs that were adopted through the Municipal Good Housekeeping Program include proper pet waste, landscaping, and pesticides and fertilizers management. The Town will evaluate additional BMPs when the 2016 General Permit becomes effective as part of the Stormwater Management Plan and NOI development.

Part IV. Summary of Information Collected and Analyzed

The Town conducted E. coli sampling weekly during summer months at Memorial Beach and at other locations along Webster Lake, including at a campground's beach. The concentrations are generally very low, or non-detect. No result exceeded the maximum concentration of 235 colonies per 100 mL allowed by *314 CMR 4.05* for Class B waters during the bathing season.

Webster Lake Association and French River Connection sampling activities and results are detailed in the Public Participation MCM and were shared with the Town and MassDEP.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	(\$)	
Total Program Expenditures since beginning of permit coverage		\$575,000 SRF (2013-2018)
Funding mechanism(s) (General Fund, Enterprise, Utility, etc.)		General Fund

Education, Involvement, and Training

	(Preferred Units)	Response
Estimated number of residents reached by education program(s)	(%)	
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(#)	
▪ material collected	(tons or gal)	
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	N/A			
▪ 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	(#)	288
System-Wide mapping complete	(%)	95%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	288
Illicit discharges identified	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed	(#) (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

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

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)	

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	(#)	
Qty. of storm drain cleaned	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	(location)	
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)	(\$)	
• Hourly or per basin contract rate	(\$/hr or \$ per basin)	
• Disposal cost (included in contract rate)	(\$)	

Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(#)	
• % Structures cleaned with clam shells	(%)	
• % Structures cleaned with vactor	(%)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
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	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers	%	
• % Roads swept with vacuum sweepers	%	
Reduction 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)	
Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	96% NaCl 4% Pre-wetting agent
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	

Automatic or Zero-velocity spreaders used	(y/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)	(%)	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)	

Water Supply Protection

Stormwater 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	