**Municipality/Organization: Town of Webster, MA**

**EPA NPDES Permit Number: MAR041170**

**MassDEP Transmittal Number: W-21004707**

**Annual Report Number**
**& Reporting Period: No. 14: April 1, 2016 – March 31, 2017**

# 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: **Donald Borque**

Title: **Chairman, Board of Selectmen**

Date: 4-27-17

**Part II. Self-Assessment**

In Permit Year 14 (April 1, 2016 through March 31, 2017), 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 numerous 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 14, focusing on completing the stormwater system mapping and identifying and inspecting outfalls. During Permit Year 14, the Town completed its outfall inventory/dry weather screening. Using consultants, all of the known outfalls in Town have been located and screened for dry weather flow.

Webster continued its participation in the Central Massachusetts Regional Stormwater Coalition (CMRSWC) during Permit Year 14. The Town continued to 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 2018, 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 14 |
|---|---|---|---|---|
| 1.a. | Educational Flyers and Pamphlets<br><br>Town Website | DPW | # of materials created and distributed<br><br># of hits on town website | Webster maintains stormwater information and links on the Town Conservation Commission webpage, including a fact sheet entitled "Keep Your Grass Green and Water Blue," which includes actions residents can take to improve water quality.<br>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 monitoring, and other storm water Best Management Practices (BMPs).<br>In Permit Year 11, a Public Education Strategy to meet the proposed new permit was developed. The Strategy includes educational materials, audiences, BMPs options and recommended methods of delivery and evaluation. Materials generally provide information on the impact of stormwater discharges to waterbodies and illicit discharges/ illegal dumping. |
| 1.b. | Newspapers – Press Releases | DPW | # of stormwater related articles published | The Earth Day Roadside cleanup was held on May 14, 2016. The event was advertised in the Worcester Telegram, and sponsored by the Webster Dudley Business Alliance. |
| 1.c. | Local Cable Access Channel | DPW | # of public service announcements made on television | Public Service Announcements (PSAs) related to the annual Earth Day Cleanup were made on the local cable access channel during Year 14. During previous years, other stormwater-related information such as the Pennsylvania State University documentary "Liquid Assets" and presentations on Webster's stormwater bylaws which were made to Selectmen 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 14 due to budget cuts.<br>The Town's Board of Health maintains information about household hazardous waste, and publishes a notice for the NEDT Household Hazardous Products Collection Center, which is located in Sutton and accepts waste from Webster residents. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 14 |
|---|---|---|---|---|
| 1.e | Educational Training Materials | DPW<br>(REVISED: CMRSWC) | # of events where training materials are used | In previous permit years, the CMRSWC purchased an Enviroscape table, which is an educational tool focused on non-point source pollution.<br>The CMRSWC has also purchased 100 water quality monitoring kits from the World Water Monitoring Challenge program.<br>Due to staff turnover, Webster was unable to use materials provided by the CMRSWC this permit year. However, the materials are available for future use. |

## 2. Public Involvement and Participation

**Note that the "Planned Activities" column has been deleted from this Annual Report. In Fiscal Year 2018, 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 14 |
|---|---|---|---|---|
| 2.a | Stormwater Management Committee | DPW | # of meetings held | The Stormwater Management Committee did not meet during Year 14 due to Town-wide staffing changes. The Stormwater Management Program is now directed by the Town's WWTF Operations Manager. The Operations Manager coordinates with the Town Administrator, Highway Department, Planning Department, DPW, and Water/Sewer staff. |
| 2.b. | Storm Drain Stenciling | DPW | # of drains stenciled | Stenciling was completed in previous permit years, and no additional storm drains were stenciled in Year 14. The Town has installed multiple stormwater outfall markers as part of the dry weather outfall monitoring program. |
| 2.c. | Educational Outreach Materials | | # of presentations | Issues impacting stormwater management and water quality were discussed during public meetings and Planning Board meetings periodically throughout Year 14, such as development of a new water treatment plant in town, and new construction projects meeting stormwater management requirements. |
| 2.d. | Stream Cleanup and Monitoring | DPW | # of participants and locations of streams | Webster Lake Association volunteers conducted water quality sampling in Webster Lake and its tributaries in the spring, summer and fall of 2016.<br>The Town also collected water quality samples at various locations around Webster Lake, including multiple at Memorial Beach, on a weekly basis from May through September 2016.<br>In 2016, the French River Connection volunteers completed 4 sampling events at 16 locations within the French River Watershed, 5 of which are located in Webster. The Town of Webster assists the French River Connection by maintaining the cleanliness and integrity of the French River Park and other recreational areas along the French River. |
| 2.e. | 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 14 on May 14, 2016 from 8:00 AM to 1:00 PM sponsored by the Webster-Dudley Business Alliance. Town staff assist in the cleanup by collecting and disposing of the bags of waste. |

## 3. Illicit Discharge Detection and Elimination

**Note that the "Planned Activities" column has been deleted from this Annual Report. In Fiscal Year 2018, 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 14 |
|---|---|---|---|---|
| 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. | 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 this permit year by eliminating MassDOT, WWTF, and other private outfalls from the town's responsibility of the MS4.<br>Outfall markers with unique identifying labels have been purchased and approximately 20 markers were placed in Year 12.<br>In a previous Permit Year, the CMRSWC purchased two Leica surveying devices that will be helpful in completing field verification of outfall locations, and may be utilized by the Town as needed.<br>In Fall 2014, WPI student volunteers assisted in outfall inspections and follow up dry weather monitoring for approximately 20 outfalls.<br>In July 2015, CMRSWC performed dry weather outfall screening with field instrumentation and test kits at 14 outfalls. There was no evidence of illicit discharges.<br>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. |
| 3.c. | Capital Planning/Budget | DPW | Amount of money needed for future projects | The Town completed a Stormwater Utility Feasibility report to assist with evaluating the options for stormwater financing. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 14 |
|---|---|---|---|---|
| 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. | BMP Installation | DPW | # of BMP's installed | During Year 13, the Town completed construction of a new Police Facility, located adjacent to the French River. The new facility includes an improved stormwater drainage system including bio-retention areas (rain garden and vegetated swale) and a subsurface infiltration system. |
| 3.f. | IDDE Program Development | DPW | # IDDE locations identified | 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 this permit year, the gathered data and information are added to the Town's IDDE program. |
| 3.g. | Inspecting Stormwater System Components | DPW | # of inspections completed | 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. |
| 3.h. | Develop Stormwater Management Program Web based GIS system | DPW | Implement GIS system for DPW and other town staff | 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, especially during the outfall inventory/ dry weather screening effort completed during Permit Year 14. |

## 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 14 |
|---|---|---|---|---|
| 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, and Water & Sewer superintendents, review all proposals. The Town received 9 plans for Site Plan Review between April 2016 and March 2017. The Conservation Commission also reviewed 34 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<br><br># of building permits issued | In the draft *Rules and Regulations for the Management of Stormwater*, 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<br>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<br><br>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).<br>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 14 |
|---|---|---|---|---|
| 5.a. | Eliminating Curbs and Gutters | Highway Superintendent | # of curb cuts made in existing developments | The Town issued 14 curb cuts between April 2016 and March 2017. |
| 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. |
| 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<br><br>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).<br>Rules and regulations for this Bylaw will be adopted once the 2016 General Permit becomes effective. |
| 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 2018, 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 14 |
|---|---|---|---|---|
| 6.a. | Parking Lot and Street Cleaning | Highway Superintendent | # of scheduled road cleanings | In Permit Year 14, all 78 miles of streets were swept at least once in the spring. Major streets and highly used areas in town, such as roads leading to sports fields, 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 14, the Town continued to use ClearLane Enhanced Deicer (no sand). Approximately 1,500 tons of ClearLane were used during this Permit Year. |
| 6.c. | Drain System Cleaning | Highway Superintendent | # of storm drains cleaned regularly | Approximately 250 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 | Approximately 20 storm drain outfalls were cleaned by the Highway Department. Brush was cut back, debris removed, and structural integrity was noted.<br>As part of the outfall inventory and dry weather screening effort described in BMP 3.b, a list of outfalls needing maintenance was given to the Town.<br>Central Mass Mosquito Control also continued to clean roadside culverts and streams in Webster. |
| 6.e. | DPW Employee Education | DPW | # Employees Trained; # Facilities | Regular training sessions were held for DPW employees during Year 14, which include topics about stormwater management.<br>The Highway Superintendent is a member of the Worcester County Highway Association, which holds quarterly meetings and sometimes includes 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 2014 draft new MS4 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. |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) Permit Year 14 |
|---|---|---|---|---|
| 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. |
| 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 was prepared to meet proposed requirements in the draft 2014 MA MS4 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 (November 2015) was prepared 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 SWMP/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. The concentrations are generally very low, or non-detect. Only one 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: on July 6, 2016, one sample was 240 colonies/100mL.

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 | | |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc.) | | |

### 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 %) | 100 |
| Outfalls inspected/screened (Since beginning of permit coverage) | (# or %) | 288 |
| Illicit discharges identified | (#) | |
| Illicit discharges identified (Since beginning of permit coverage) | (#) | |
| Illicit connections removed | (# )<br>(est. gpd) | |
| Illicit connections removed (Since beginning of permit coverage) | (# )<br>(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<br>% $CaCl_2$<br>% $MgCl_2$<br>% CMA<br>% Kac<br>% KCl<br>% Sand | 96% NaCl<br>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 | |