Municipality/Organization: Town of Eastham, MA

EPA NPDES Permit Number: MAR041110

MassDEP Transmittal Number: W-040891

Annual Report Number & Reporting Period: Year 8, April 1, 2010 – March 31, 2011

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2011)

Part I. General Information

Contact Person: Jane Crowley
Title: Health Agent

Telephone #: (508) 240-5900
Email: jcrowley@eastham-ma.gov

Mailing Address: 2500 State Highway, Eastham, MA 02642

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: Sheila Vanderhoef

Printed Name: Sheila Vanderhoef
Title: Town Administrator
Date: April 11, 2012
Part II. Self-Assessment

The Town of Eastham has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.
### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

<p>| BMP ID # | BMP Description                                                                 | Responsible Dept./Person Name | Measurable Goal(s)                              | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                 | Planned Activities                                                                                                                                                                                                                   |
|----------|---------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |
| 1.1      | Educational Brochures                                                           | DPW, Health                  | Development of Brochures                        | Updated brochures; disseminated brochures concerning hazardous waste disposal days. Continued to coordinate with Cape Cod Commission on informational campaign.                                                                                                                                                                                                        | Continue to update educational brochures as new information arises; provide information on hazardous waste disposal days.                                                                                                                                                                      |
|          | Revised                                                                        |                              |                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |
|          | New brochures educate the public about proper disposal of medical waste and prescription medication |                              |                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |
| 1.2      | Mailings to Homeowners                                                          | Health                       | Distribution of Brochures                        | Homeowner mailings regarding importance of septic system maintenance.                                                                                                                                                                                                                                                                                                                  | Continue annually. 3,565 mailings have been sent in 2011                                                                                                                                                                                                                                         |
|          | Revised                                                                        |                              |                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |
|          | <a href="http://www.eastham-ma.gov/Public_Documents/EasthamMA_Health/index">http://www.eastham-ma.gov/Public_Documents/EasthamMA_Health/index</a> septic pumping brochure |                              |                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                      |
| 1.3      | Mailing to all Property Owners                                                 | Health                       | Distribution of Brochures                        | Homeowner mailings regarding importance of wastewater management plan including storm water                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |
| 1.4      | Coastal/Pond Clean-up                                                          | ConCom, DPW                  | Conducting Clean-up                              | Private owners clean pond areas and test fresh water. DPW cleans as necessary. Mutt-mitt project for dog waste has been implemented and continued. Enhanced enforcement of pet regulations. Form local Citizens Advisory group to facilitate compliance                                                                                                                                               | DPW continues to clean up as necessary. Possible expansion of mutt-mitt program to other areas of town. Review pond report from CCC:                                                                                                                                                                   |</p>
<table>
<thead>
<tr>
<th>1.5</th>
<th>Office Brochure</th>
<th>NR, DPW, Planning</th>
<th>Availability of Brochures</th>
<th>Continue to update brochures and informational/educational brochures in Year 8, including information on fertilizers and other potential contaminants. Review grant-funded Pleasant Bay Watershed Management Plan for cross-applicability. Continue strategies to reduce TMDLs as required in Draft Mass Estuaries Report for Rock Harbor. Continue to update educational brochures as new information arises; provide information on hazardous waste disposal days.</th>
</tr>
</thead>
</table>

**1a. Additions**

| 1.7 | Beach Signage | Health | Development of Signage | New signage at every marine & freshwater beach to enforce compliance with state beach regulations, noting contact info, testing data and periods of testing | Continue indefinitely. Add 2 new beach signage sites Salt Pond and Jemima Pond |
## 2. Public Involvement and Participation

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Stormwater Management Program</td>
<td>NR, DPW, ConCom, Planning, Health, WMC</td>
<td>Development of Program, including prioritization of sites</td>
<td>Program has been developed and sites have been identified. Catchbasins and discharge pipes have been mapped in GIS database, based on paper maps. <a href="http://www.eastham-ma.gov/Public_Documents/EasthamMA_Planning/NPDES/Maps/">http://www.eastham-ma.gov/Public_Documents/EasthamMA_Planning/NPDES/Maps/</a></td>
<td>Investigate Mass State Highway stormwater drainage into Salt Pond and Minister Pond</td>
</tr>
<tr>
<td>Revised</td>
<td>Map updated September 2009; Priority outfall maps prepared and posted</td>
<td></td>
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<tr>
<td>2.2</td>
<td>Pollution Reporting</td>
<td>NR, DPW, Pond Stewards</td>
<td>Visual Monitoring / Recording</td>
<td>Continue routine monitoring of marine areas conducted by NR staff 5 times per week, daily monitoring of drainage system/road network by DPW, and monitoring of fresh surface waters by Eastham Pond Stewards. Monitoring capabilities augmented for summer months in Rock Harbor (marina) by seasonal employee. NR monitoring of Town Cove bacteria levels with MA Division of Marine Fisheries.</td>
<td>Continue with monitoring as described; receive report from Cape Cod Commission’s monitoring efforts for action. Pond Report implementation strategies reviewed. <a href="http://www.barnstablecountyhealth.org/bseastham.htm">http://www.barnstablecountyhealth.org/bseastham.htm</a></td>
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<tr>
<td>Revised</td>
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<tr>
<td>2a. Additions</td>
<td></td>
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<tr>
<td>2.3</td>
<td>Volunteer Corp “HOGS &amp; FROGS”</td>
<td>NR</td>
<td>Development of Program</td>
<td>Program ended due to staffing</td>
<td>Consider staffing <a href="http://www.eastham-ma.gov/Public_Documents/EasthamMA_Resources/Volunteers">http://www.eastham-ma.gov/Public_Documents/EasthamMA_Resources/Volunteers</a></td>
</tr>
<tr>
<td></td>
<td>Helping Out Growing Shellfish &amp; Friends Revitalizing Our Green Spaces</td>
<td></td>
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<tr>
<td>2.4</td>
<td>Pond Associations</td>
<td>NR, Health</td>
<td>Development of Associations</td>
<td>2 Private associations formed dealing with issues such as nutrient loading and eutrophication</td>
<td>Continue indefinitely. Bi annual Association Meeting Planned to update developments on best management practices</td>
</tr>
</tbody>
</table>
### 3. Illicit Discharge Detection and Elimination

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
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<th>Planned Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Map Outfalls</td>
<td>NR, DPW</td>
<td>Comprehensive Map GIS/GPS</td>
<td>Program has been developed and sites have been identified.</td>
<td>Continue to Refine and enhance source point/waterways map.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>3.2</td>
<td>Detection of Non-Stormwater Discharge</td>
<td>NR, Health</td>
<td>Correction of Discharges</td>
<td>Continue to identify no stormwater discharges and remedy situations as they arise, depending on the source of the discharge</td>
<td>Continue project indefinitely. Update map as needed</td>
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<tr>
<td>Revised</td>
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<tr>
<td>3.3</td>
<td>Dry Weather Flow Screening</td>
<td>NR, Health</td>
<td>Screening Testing; Correction of Discharges</td>
<td>Incorporate dry weather flow screening into the routine monitoring of marine areas conducted by NR staff 5x per week spring through fall.</td>
<td>Continue project indefinitely.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>3.4</td>
<td>Reporting Line Establishment of Line</td>
<td>NR, DPW, Fire</td>
<td></td>
<td>Line established and maintained for NR and DPW to report any inappropriate inputs to the MS4. Reports involving oil or hazardous waste is reported to the Fire Dept, and MA DEP.</td>
<td>Illicit Discharge and Detection Hotline established. <a href="http://www.eastham-ma.gov/Public_Documents/EasthamMA_BBoard/1022B6F80">http://www.eastham-ma.gov/Public_Documents/EasthamMA_BBoard/1022B6F80</a></td>
</tr>
<tr>
<td>Revised</td>
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<tr>
<td>3.5</td>
<td>Hazardous Product Collection Medical Waste Disposal Day</td>
<td>Health, DPW, Recycling, Police</td>
<td>Conducting Collection Day</td>
<td>Hazardous waste collection days schedules for July 16, 2011 and September 17, 2011. Medical Waste take back day conducted in conjunction with DEA.</td>
<td>Continue project indefinitely.</td>
</tr>
<tr>
<td>Revised</td>
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</tr>
</tbody>
</table>

### 3a. Additions

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3.6</td>
<td>Outfall Elimination</td>
<td>DPW</td>
<td>Reduction of outfalls contributing to bodies of water</td>
<td>Grant funding received through MA Office of Coastal Zone Management and Cape Cod Water Resources Project</td>
<td>Continue indefinitely (Ellis Road and Herringbrook Road)</td>
</tr>
</tbody>
</table>
### 4. Construction Site Stormwater Runoff Control

<table>
<thead>
<tr>
<th>BMP ID #</th>
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<th>Planned Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Draft Construction Site Runoff Control Bylaw</td>
<td>Planning</td>
<td>Develop Bylaws</td>
<td>Draft bylaw adopted by Planning Board for adoption at Town Meeting (May 2010) <a href="http://www.eastham-ma.gov/Public_Documents/EasthamMA_Planning/LegalNotices/ForATM2010/MLU_Form7_02-18-10_PBNNotice.pdf">link</a></td>
<td>Implement bylaw</td>
</tr>
<tr>
<td></td>
<td>Revised</td>
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<tr>
<td>4.2</td>
<td>Enact Construction Site Runoff Control Bylaw</td>
<td>ConCom, Planning, Town Meeting</td>
<td>Implement Bylaw</td>
<td>Continue to discuss the creation of a bylaw to be incorporated into local wetland control bylaw and local subdivision rules and regulations.</td>
<td>Continue to work on the development and implementation of bylaws. There is a policy, but not a bylaw.</td>
</tr>
<tr>
<td></td>
<td>Revised</td>
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<tr>
<td>4.3</td>
<td>Sand Nourishment</td>
<td>ConCom</td>
<td>Regulations</td>
<td>Continuation of goal for better compliance and quality of sand. NR agent frequently meets with applicants.</td>
<td>Homeowners required to do sand nourishment must do so with sand of comparable grain size to what is natural with no debris.</td>
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<td></td>
<td>Revised</td>
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### 4a. Additions

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</table>
5. Post-Construction Stormwater Management in New Development and Redevelopment

<table>
<thead>
<tr>
<th>BMP ID #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Draft Construction Site Runoff Control Bylaw</td>
<td>ConCom,</td>
<td>Develop Bylaws</td>
<td>Continue to discuss the creation of a bylaw to be incorporated into local wetland control bylaw and local subdivision control rules and regulations.</td>
<td></td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
<td>Continue to work on the development and implementation of a bylaw. Review bylaw for adoption at town meeting for ConCom. Continue “Limit of Work” in Order of Conditions for project as well as use hay bales &amp;/or silt fence until area is stabilized.</td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td>Amend Site Plan Review</td>
<td>Planning</td>
<td>Bylaw</td>
<td>Continue to discuss the creation of a bylaw to be incorporated into local zoning bylaw.</td>
<td></td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td></td>
<td>May not be necessary in Year 8 if proposed bylaw is adopted at ATM 2010.</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td>Enact Construction Site Runoff Control Bylaw</td>
<td>ConCom, Planning, Town Meeting, Bd. Of Highway Surveyors</td>
<td>Implement Bylaw</td>
<td>Continue to discuss the creation of a bylaw to be incorporated into local wetland control bylaw and local subdivision rules and regulations.</td>
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<tr>
<td>Revised</td>
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<td></td>
<td>Continue to work on the development and implementation of bylaws. There is a policy, but not a bylaw.</td>
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</tbody>
</table>

5a. Additions
6. Pollution Prevention and Good Housekeeping in Municipal Operations

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>6.1 Revis</td>
<td>Annual Training</td>
<td>NR, DPW, Planning, Fire, Health</td>
<td>Training Session</td>
<td>Annual training on best practices for pollution prevention and mitigation.</td>
<td>Annual training for worker safety, attend educational workshops for employees or public given by CCC or WBNERR etc.</td>
</tr>
<tr>
<td>6.2 Revis</td>
<td>Review of Town Properties</td>
<td>DPW, Building Maintenance</td>
<td>Monitor and Correct Problems</td>
<td>Audit conducted by MIA.</td>
<td>Continue indefinitely.</td>
</tr>
<tr>
<td>6.3 Revis</td>
<td>Review of Town Operations</td>
<td>DPW, Facilities Manager</td>
<td>Monitor and Correct Problems</td>
<td>Pollution Prevention Control</td>
<td>Ongoing project</td>
</tr>
<tr>
<td>6.4 Revis</td>
<td>Catch basin Cleaning</td>
<td>DPW</td>
<td>Updated Log</td>
<td>Clean all town-owned catchbasins in spring and fall 2010</td>
<td>Clean all town-owned catchbasins in Spring and Fall 2011</td>
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<tr>
<td>6.5 Revis</td>
<td>Street Sweeping</td>
<td>DPW</td>
<td>Record areas swept</td>
<td>Sweep all town-owned roadways and parking lots in spring and fall 2010. Received beneficial use determination based on testing.</td>
<td>Sweep all town-owned roadways and parking lots in Spring and Fall 2011</td>
</tr>
<tr>
<td>6.6 Revis</td>
<td>Remediation of existing outfall</td>
<td>DPW</td>
<td>Elimination of stormwater discharge</td>
<td>One discharge site identified: Cole Road. Funding not received.</td>
<td>Complete survey</td>
</tr>
<tr>
<td>6.7 Revis</td>
<td>Drainage Alterations</td>
<td>DPW</td>
<td>Catch basin Replacement</td>
<td>Catch basins identified for replacement or closure.</td>
<td>Incorporate green infrastructure in at least 1 location</td>
</tr>
<tr>
<td>6.8 Revis</td>
<td>Fuel Tanks</td>
<td>Fire</td>
<td>Fuel Tank Removal</td>
<td>Two fuel tanks removal completed</td>
<td>Goal achieved</td>
</tr>
<tr>
<td>6.9 Revis</td>
<td>Flooding Remediation</td>
<td>DPW</td>
<td>Construction of Detention pond</td>
<td>Brackett Road stormwater design completed</td>
<td>Ensure compliance</td>
</tr>
</tbody>
</table>
6a. Additions

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)  <<Not applicable>>

<table>
<thead>
<tr>
<th>BMP ID #</th>
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<tr>
<td>Revised</td>
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<td>Revised</td>
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7a. Additions

7b. WLA Assessment
Part IV. Summary of Information Collected and Analyzed

**Freshwater Sampling** – The Cape Cod Pond and Lake Stewardship (PALS) are continually sampling the Eastham ponds in an effort to identify possible pollutant and recommend best management practices for containing and eliminating possible pollutants. Eastham has a total of 12 ponds currently being sampled. ([http://www.capecodcommission.org/water/PALS/home.htm](http://www.capecodcommission.org/water/PALS/home.htm))

**Beach Sampling** – Sixteen Eastham beaches (11 saltwater and 5 freshwater) were sampled during the summer months of 2007, 2008, 2009 and 2010 by the Barnstable County Department of Health and Environment. Samples exceeding the limits only resulted in the posting of swimming advisory notices. A repeat sample taken the following day was within acceptable limits and the beach was reopened to the public. ([http://www.barnstablecountyhealth.org/bseastham.htm](http://www.barnstablecountyhealth.org/bseastham.htm))

**Groundwater Sampling** – The town continued its voluntary sampling project to evaluate levels of nitrate in residential wells. Each year one-third of the town is sampled allowing for a three-year sampling rotation schedule. We are experiencing a return of approximately 60% of the vials mailed.

<table>
<thead>
<tr>
<th>Year</th>
<th># Samples Returned</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>1,116</td>
</tr>
<tr>
<td>2010</td>
<td>1,010</td>
</tr>
<tr>
<td>2011</td>
<td>852</td>
</tr>
</tbody>
</table>

**Shellfish Sampling** – The Natural Resources Office continues to test for Red Tide and participate in shellfish sampling in coordination with Massachusetts Division of Marine Fisheries on a weekly basis through the Spring, Summer and Fall.
Part V. Program Outputs & Accomplishments (OPTIONAL)
(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2009 through March 31, 2010)

**Programmatic**

<table>
<thead>
<tr>
<th>Stormwater management position created/staffed</th>
<th>(Preferred Units)</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual program budget/expenditures **</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>Total program expenditures since beginning of permit coverage</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>Funding mechanism(s) (General Fund, Enterprise, Utility, etc)</td>
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</tr>
</tbody>
</table>

**Education, Involvement, and Training**

| Estimated number of property owners reached by education program(s) | (# or %) |
| Stormwater management committee established | (y/n) |
| Stream teams established or supported | (# or y/n) |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n or mi.) |
| Shoreline cleaned since beginning of permit coverage | (mi.) |
| Household Hazardous Waste Collection Days |
| - days sponsored ** | (#) |
| - community participation ** | (# or %) |
| - material collected ** | (tons or gal) |
| School curricula implemented | (y/n) |

**Legal/Regulatory**
<table>
<thead>
<tr>
<th>Regulatory Mechanism Status (indicate with “X”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Illicit Discharge Detection &amp; Elimination</td>
</tr>
<tr>
<td>- Erosion &amp; Sediment Control</td>
</tr>
<tr>
<td>- Post-Development Stormwater Management</td>
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<table>
<thead>
<tr>
<th>Accompanying Regulation Status (indicate with “X”)</th>
</tr>
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<tbody>
<tr>
<td>- Illicit Discharge Detection &amp; Elimination</td>
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<td>- Post-Development Stormwater Management</td>
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<table>
<thead>
<tr>
<th>Mapping and Illicit Discharges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outfall mapping complete (%)</td>
</tr>
<tr>
<td>Estimated or actual number of outfalls (#)</td>
</tr>
<tr>
<td>System-Wide mapping complete (complete storm sewer infrastructure) (%)</td>
</tr>
<tr>
<td>Mapping method(s)</td>
</tr>
<tr>
<td>- Paper/Mylar (%)</td>
</tr>
<tr>
<td>- CADD (%)</td>
</tr>
<tr>
<td>- GIS (%)</td>
</tr>
<tr>
<td>Outfalls inspected/screened (%)</td>
</tr>
<tr>
<td>Outfalls inspected/screened (Since beginning of permit coverage) (%)</td>
</tr>
<tr>
<td>Illicit discharges identified (%)</td>
</tr>
<tr>
<td>Illicit discharges identified (Since beginning of permit coverage) (%)</td>
</tr>
<tr>
<td>Illicit connections removed (%)</td>
</tr>
<tr>
<td>Illicit connections removed (Since beginning of permit coverage) (%)</td>
</tr>
<tr>
<td>% of population on sewer (%)</td>
</tr>
<tr>
<td>% of population on septic systems (%)</td>
</tr>
</tbody>
</table>
### Construction

<table>
<thead>
<tr>
<th>Metric</th>
<th>(Preferred Units)</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of construction starts (&gt;1-acre) **</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>Estimated percentage of construction starts adequately regulated for erosion and sediment control **</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Site inspections completed **</td>
<td>(# or %)</td>
<td></td>
</tr>
<tr>
<td>Tickets/Stop work orders issued **</td>
<td>(# or %)</td>
<td></td>
</tr>
<tr>
<td>Fines collected **</td>
<td>(# and $)</td>
<td></td>
</tr>
<tr>
<td>Complaints/concerns received from public **</td>
<td>(#)</td>
<td></td>
</tr>
</tbody>
</table>

### Post-Development Stormwater Management

<table>
<thead>
<tr>
<th>Metric</th>
<th>(Preferred Units)</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Site inspections (for proper BMP installation &amp; operation) completed **</td>
<td>(# or %)</td>
<td></td>
</tr>
<tr>
<td>BMP maintenance required through covenants, escrow, deed restrictions, etc.</td>
<td>(y/n)</td>
<td></td>
</tr>
<tr>
<td>Low-impact development (LID) practices permitted and encouraged</td>
<td>(y/n)</td>
<td></td>
</tr>
</tbody>
</table>

### Operations and Maintenance

<table>
<thead>
<tr>
<th>Metric</th>
<th>(Preferred Units)</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **</td>
<td>(times/yr)</td>
<td></td>
</tr>
<tr>
<td>Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **</td>
<td>(times/yr)</td>
<td></td>
</tr>
<tr>
<td>Qty. of structures cleaned **</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>Qty. of storm drain cleaned **</td>
<td>(%, LF or mi.)</td>
<td></td>
</tr>
<tr>
<td>Qty. of screenings/debris removed from storm sewer infrastructure **</td>
<td>(lbs. or tons)</td>
<td></td>
</tr>
<tr>
<td>Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **</td>
<td>(location)</td>
<td></td>
</tr>
<tr>
<td>Basin Cleaning Costs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>• Annual budget/expenditure (labor &amp; equipment)**</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>• Hourly or per basin contract rate **</td>
<td>($/hr or $ per basin)</td>
<td></td>
</tr>
<tr>
<td>• Disposal cost**</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>Cleaning Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Clam shell truck(s) owned/leased</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>• Vacuum truck(s) owned/leased</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>• Vacuum trucks specified in contracts</td>
<td>(y/n)</td>
<td></td>
</tr>
<tr>
<td>• % Structures cleaned with clam shells **</td>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>• % Structures cleaned with vactor **</td>
<td>(%)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Average frequency of street sweeping (non-commercial/non-arterial streets) **</th>
<th>(Preferred Units)</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average frequency of street sweeping (commercial/arterial or other critical streets) **</td>
<td>(times/yr)</td>
<td></td>
</tr>
<tr>
<td>Qty. of sand/debris collected by sweeping **</td>
<td>(lbs. or tons)</td>
<td></td>
</tr>
<tr>
<td>Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **</td>
<td>(location)</td>
<td></td>
</tr>
<tr>
<td>Annual Sweeping Costs</td>
<td>($/hr. or ln mi.)</td>
<td></td>
</tr>
<tr>
<td>• Annual budget/expenditure (labor &amp; equipment)**</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>• Hourly or lane mile contract rate **</td>
<td>($/hr. or ln mi.)</td>
<td></td>
</tr>
<tr>
<td>• Disposal cost**</td>
<td>($)</td>
<td></td>
</tr>
<tr>
<td>Sweeping Equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Rotary brush street sweepers owned/leased</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>• Vacuum street sweepers owned/leased</td>
<td>(#)</td>
<td></td>
</tr>
<tr>
<td>• Vacuum street sweepers specified in contracts</td>
<td>(y/n)</td>
<td></td>
</tr>
<tr>
<td>• % Roads swept with rotary brush sweepers **</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>• % Roads swept with vacuum sweepers **</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Reduction (since beginning of permit coverage) in application on public land of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td>(&quot;N/A&quot; = never used; &quot;100%&quot; = elimination)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Fertilizers</td>
<td>(lbs. or %)</td>
<td></td>
</tr>
<tr>
<td>- Herbicides</td>
<td>(lbs. or %)</td>
<td></td>
</tr>
<tr>
<td>- Pesticides</td>
<td>(lbs. or %)</td>
<td></td>
</tr>
</tbody>
</table>

Integrated Pest Management (IPM) Practices Implemented (y/n)

<table>
<thead>
<tr>
<th>Preferred Units</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Preferred Units)</td>
<td>Response</td>
</tr>
<tr>
<td>Average Ratio of Anti-/De-Icing products used **</td>
<td>% NaCl % CaCl₂ % MgCl₂ % CMA % Kac % KCl % Sand</td>
</tr>
<tr>
<td>(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)</td>
<td></td>
</tr>
<tr>
<td>Pre-wetting techniques utilized **</td>
<td>(y/n or %)</td>
</tr>
<tr>
<td>Manual control spreaders used **</td>
<td>(y/n or %)</td>
</tr>
<tr>
<td>Zero-velocity spreaders used **</td>
<td>(y/n or %)</td>
</tr>
<tr>
<td>Estimated net reduction or increase in typical year salt/chemical application rate</td>
<td>(±lbs/ln mi. or %)</td>
</tr>
<tr>
<td>Estimated net reduction or increase in typical year sand application rate **</td>
<td>(±lbs/ln mi. or %)</td>
</tr>
<tr>
<td>% of salt/chemical pile(s) covered in storage shed(s)</td>
<td>(%)</td>
</tr>
<tr>
<td>Storage shed(s) in design or under construction</td>
<td>(y/n or #)</td>
</tr>
<tr>
<td>100% of salt/chemical pile(s) covered in storage shed(s) by May 2008</td>
<td>(y/n)</td>
</tr>
</tbody>
</table>
## Water Supply Protection

<table>
<thead>
<tr>
<th>Storm water outfalls to public water supplies eliminated or relocated</th>
<th># or y/n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed or planned treatment BMPs for public drinking water supplies and their protection areas</td>
<td># or y/n</td>
</tr>
<tr>
<td>• Treatment units induce infiltration within 500-feet of a wellhead protection area</td>
<td># or y/n</td>
</tr>
</tbody>
</table>