

**Municipality/Organization:** Rowley

---

**EPA NPDES Permit Number:** MAR041218

---

**MassDEP Transmittal Number:** W-03572

---

**Annual Report Number** Year 15  
**& Reporting Period:** April 1, 2017– March 31, 2018

---

## NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2018)

### Part I. General Information

Contact Person: Brent Baeslack

Title: Conservation Agent

---

Telephone #: 978-948-2330

Email: conservation@townofrowley.org

---

Mailing Address: P. O. Box 275, 139 Main Street, Rowley, MA 01969

---

#### 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: *Brent Baeslack*

---

Printed Name: Brent Baeslack

---

Title: Conservation Agent

---

Date: April 27, 2018

---

## **Part II. Self-Assessment**

**The Town of Rowley has continued to make progress in our Storm Water Management goals for Year 15 (fifteen). On behalf of the Town I have been participating in meetings, workshops, and training opportunities relating to the proposed requirements for the recently issued revised MS4 General Permit and stormwater issues in general. I have attended the following:**

- Merrimack Valley Planning Com. Stormwater Collaborative of DPW Directors Meetings (ongoing monthly sessions)**
- Municipal Water Dept. Paving Project with Stormwater Facilities Sept. to Nov. 2017**
- MACC Fall Conf. MACC Academy: Peer Reviews & Rivers and Floodplain Permitting Oct. 2017**
- MACC Annual Environmental Conf. ACOE General Permit & Culvert Replacement workshops March 2018**
- CZM Coastal training Manual use and applications November 2017**

**Patrick Snow the Highway Surveyor also participates in the MVPC DPW Directors Stormwater Collaborative meetings.**

**The Town has continued active implementation of the Stormwater Management and Erosion Control Bylaw. The Conservation Commission has reviewed and permitted nine (9) applicants under this bylaw within the reporting period. The Commission has also reviewed four (4) project completion requests during the reporting period. The map and database of Stormwater outfalls in our Urbanized Areas is currently under review for updating and verification. The Rowley Board of Health continues their oversight using their regulation under the “Prohibiting Illicit Connections and Discharges to the Municipal Separate Storm System (MS4)”. The Board of Selectmen and Town Meeting continued to support the funding of the Greenscapes Program, a coalition of the Ipswich River Watershed Association, Eight Towns and the Great Marsh Committee, and Salem Sound Coastwatch. Through Greenscapes the Town of Rowley receives public education and outreach materials. The Conservation Dept. maintains the material ready to support public service projects through the Boy Scouts or other civic-minded groups who may wish to volunteer in storm drain stenciling or other water quality related projects. The Conservation Dept. has facilitated the Town Police and Fire Safety Project and the Pine Grove School Renovation Project in incorporating or upgrading stormwater management facilities into the proposed construction activities. The Town has purchased iPads and a Stormwater Inspection mobile application in order to facilitate the infrastructure inspection and monitoring of outfalls.**

**Brent Baeslack  
Conservation Agent**

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

| BMP ID # | BMP Description      | Responsible Dept./Person Name  | Measurable Goal(s)                         | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                  | Planned Activities |
|----------|----------------------|--------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1        | Homeowners           | Sel/ConCom                     | Pamphlets/local TV                         | Goal achieved. The Town continued its participation in the Greenscapes program. Year 15 marked the eleventh year of participation. Greenscapes provided newsletters and handouts for homeowners, a website, and public workshops. Info sheets mailed with electric bills. |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |
| 2        | Targeting Education  | Sel/ConCom/<br>Board of Health | Workshops/meetings                         | Goal achieved. The Board of Health continues oversight of the stream monitoring program. Co-operation has been sought with the Parker River Clean Water Association engaged is similar stream monitoring in the watershed.                                                |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |
| 3        | New Development      | Sel/ConCom                     | Participation in project review & approval | Goal achieved. All development that triggers review must comply with Stormwater Mgt. Bylaw regulations. ConCom, Planning Board, and Highway Dept. all work to achieve compliance.                                                                                         |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |
| 4        | Existing Development | Sel/ConCom                     | Mailings/Meetings                          | Goal achieved. Participation in Greenscapes program provides pamphlet and email newsletter. Distribution to community members through Town Hall, library and other public site, media outreach, and business locales.                                                     |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |
| Revised  |                      |                                |                                            |                                                                                                                                                                                                                                                                           |                    |

#### 1a. Additions

|     |                            |            |                               |                                                                                                                                                |  |
|-----|----------------------------|------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1.5 | Develop Stormwater website | Sel/ConCom | Website section on stormwater | Goal achieved. Web link on Town website clicks through to Greenscapes website. ConCom pages also provides Stormwater Mgt. Bylaw & Regulations. |  |
|     |                            |            |                               |                                                                                                                                                |  |

## 2. Public Involvement and Participation

| BMP ID # | BMP Description                                                | Responsible Dept./Person Name     | Measurable Goal(s)                                            | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13, 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                | Planned Activities |
|----------|----------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 5.1      | Activities/public participation – Stream clean-up & monitoring | ConCom changed to Board of Health | Organize stream clean up day/ develop monitoring program      | Goal achieved. The Board of Health is running the stream monitoring program in collaboration with Parker River Clean Water Association. Volunteers receive training and monitoring sessions throughout the year.         |                    |
| Revised  |                                                                |                                   |                                                               |                                                                                                                                                                                                                          |                    |
| 5.2      | Activities/public participation – Volunteer monitoring         | ConCom changed to Board of Health | Establish volunteer watershed teams                           | Goal achieved. Local residents and volunteers are working with the Board of Health and Parker River Clean Water Association a watershed protection group.                                                                |                    |
| Revised  |                                                                |                                   |                                                               |                                                                                                                                                                                                                          |                    |
| 5.3      | Activities/public Participation                                | Highway                           | Identify storm drainage systems                               | Goal achieved. The storm drains have been identified and most of the drains in the urbanized areas have been stenciled by Boy Scouts as a Community Service Project as needed. Needs current updating due to weathering. |                    |
| Revised  | Storm Drain Stenciling                                         | ConCom                            | Stencil storm drains                                          |                                                                                                                                                                                                                          |                    |
| 5.4      | Adopt a Stream Program – Adopt a stream                        | ConCom changed to Board of Health | Recruit Volunteers                                            | Goal achieved. The state de-activated the program so the Board of Health focused on working with volunteers on the stream team monitoring program in conjunction with Parker River Clean Water Assoc.                    |                    |
| Revised  |                                                                |                                   |                                                               |                                                                                                                                                                                                                          |                    |
| 6.1      | Involvement/public opinion – Watershed Organization            | ConCom changed to Board of Health | Establish watershed organization from stream monitoring group | Goal met. Board of Health is formally overseeing the stream team monitoring program with Parker River Clean Water Assoc.                                                                                                 |                    |
| Revised  |                                                                |                                   |                                                               |                                                                                                                                                                                                                          |                    |
| 6.2      | Involvement/public opinion                                     | ConCom changed to Board of Health | Organize to encourage public participate                      | Goal met. Board of Health publicizes this volunteer stream monitoring program.                                                                                                                                           |                    |
| Revised  |                                                                |                                   |                                                               |                                                                                                                                                                                                                          |                    |

### 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description                                                                                      | Responsible Dept./Person Name | Measurable Goal(s)                               | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                        | Planned Activities |
|----------|------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 7        | Develop Storm Water System Map                                                                       | Highway                       | Complete sub-basin drainage maps                 | Goal met. The Board of Selectmen contracted with Merrimack Valley Planning Commission to prepare a stormwater system map. Map was completed in the summer of 2008 currently being reviewed for updating.                                        |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
| 8        | Develop storm water bylaw to prevent illicit discharges                                              | Selectmen/ConCom              | Draft bylaw                                      | Goal met. The November 5, 2007 Special Town Meeting adopted the Stormwater Management and Erosion Control Bylaw. The state Attorney General approved it on November 20, 2007. Regulations were developed shortly thereafter.                    |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
| 9        | Develop & implement plan to detect & address non storm water discharges                              | Board of Health               | Complete plan and distribute to volunteer groups | Goal met. The Board of Health adopted a Regulation Prohibiting Illicit Discharges to the Municipal Separate Storm Sewer System on January 7, 2008. The regulation went into effect on February 1, 2008.                                         |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
| 10       | Educate public employees, businesses, public, etc. on illegal discharge & improper disposal of waste | Highway                       | Workshops, flyers and posters                    | Goal met. The Town continues to use Greenscapes to educate the public on the illegal discharge and improper disposal of waste. Additionally, door hangers and flyers developed by the Conservation Commission are used to accomplish this goal. |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
|          |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
|          |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |
| Revised  |                                                                                                      |                               |                                                  |                                                                                                                                                                                                                                                 |                    |

#### 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description                                     | Responsible Dept./Person Name | Measurable Goal(s)                                         | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                      | Planned Activities |
|----------|-----------------------------------------------------|-------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 12       | Develop Bylaw requiring erosion & sediment controls | ConCom                        | Adopt bylaw                                                | Goal met. The Town adopted a Stormwater Management and Erosion Control Bylaw on November 5, 2007. Additionally, the Town already has an earth removal bylaw, which addresses soil transport & volume disturbance.                                                                                                                             |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 13       | Requirements for construction site waste control    | Planning, Health & ConCom     | Prepare guidelines for site operators                      | Goal met. The Town's Stormwater Management and Erosion Control Bylaw addresses this goal. All three departments require waste to be managed through permit requirements. The ConCom Agent generally reviews special permits and site plans to ensure guidelines are met. Health Department issues dumpster permits & portable toilet permits. |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 14       | Procedures for site inspection and enforcement      | ConCom Planning               | Implement site inspections and enforcement                 | Stormwater bylaw addresses this goal. Provides regulations & enforcement capabilities, Conservation Department preforms site inspections.                                                                                                                                                                                                     |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 15       | Site Plan Review Procedure                          | Planning                      | Participation in review and approval process for new sites | Goal met. A comprehensive site plan review currently takes place. Stormwater runoff considerations are part of that review process. Planning Board will memorialize current practice in a written procedure. Conservation Dept. comments on site plan applications.                                                                           |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 16       | Identify BMPs for specific construction sites       | ConCom Planning               | Prepare checklist for site review process                  | Goal met. Stormwater Bylaw and site plan reviews require evaluations of specific BMPs for the site. Further review of projects occurs with technical consultants.                                                                                                                                                                             |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 17       | Public Input Procedures                             | Selectmen                     | Engage watershed organizations in project planning         | Goal met. Through the Town's continued participation in Greenscapes and the local stream monitoring program, this goal has been met.                                                                                                                                                                                                          |                    |
| Revised  |                                                     |                               |                                                            |                                                                                                                                                                                                                                                                                                                                               |                    |
| 18       | Construction site operator training                 | Highway                       | Workshop/Flyer                                             | Goal met. Highway Department implements best management practices and uses the stormwater management and erosion control bylaw in its practices                                                                                                                                                                                               |                    |

|    |                                    |            |                                                     |                                                                                                                                                                                                                                                                   |  |
|----|------------------------------------|------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 19 | Preservation of natural vegetation | ConCom     | Identify sensitive areas in planning/review process | Goal met. ConCom reviews all plans and offers recommendations and, in some cases, town's Wetlands Bylaw may apply, if not within jurisdiction of the state Wetlands Protection Act. Vegetated buffers are incorporated in development projects where appropriate. |  |
| 20 | Good housekeeping                  | ConCom     | Perform site inspection                             | Goal achieved. ConCom Agent, Building Inspector and Health Agent conduct site inspections. ConCom Agent as cited BMP #13, is the department head responsible for the enforcement and implementation of the Stormwater Bylaw. Specific requirement of permit.      |  |
| 21 | Spill Prevention                   | Fire Dept. | Identify designated materials storage sites         | Goal met. Fire Chief has a list of entities that store hazardous materials in Town. The Town is a member of the Northern Essex Regional Emergency Planning Committee, which enables the Town to receive updated information on hazardous materials in the area.   |  |

#### 4a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

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

| BMP ID # | BMP Description                                                                                 | Responsible Dept./Person Name | Measurable Goal(s)                                           | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                         | Planned Activities |
|----------|-------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 24       | Evaluate existing drainage structures                                                           | Highway                       | Inventory existing catch basins & other treatment facilities | Goal met. The stormwater map and stormwater outfall database for the urbanized areas provide the information on the existing catch basins and outfalls by MVPC. Mobile inspection application obtained for use.                                                                                  |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |
| 25       | Develop and implement strategies which include structural & non-structural management practices | Highway                       | Prepare Best Management Practices Checklist                  | Highway Department will prepare the BMP checklist.                                                                                                                                                                                                                                               |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |
| 26       | Develop bylaw on post construction runoff from new development                                  | ConCom                        | Adopt bylaw                                                  | Goal met. The Town's Stormwater Management and Erosion Control Bylaw 2007 addresses this goal.                                                                                                                                                                                                   |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |
| 27       | Plan to implement BMP's in design                                                               | Planning                      | Participation in design of redevelopment projects            | Highway Department currently works with Planning Board in stormwater runoff on redevelopment projects.                                                                                                                                                                                           |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |
| 30       | Establish Goals for Storm Water Runoff Quantity and Quality                                     | ConCom                        | Incorporate standards in plan approval                       | Goal met. This criteria is implemented through the project review and site inspection required by the stormwater bylaw and Planning Board permit modeling.                                                                                                                                       |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |
| 31       | Coordinate BMP with upstream and downstream municipalities                                      | ConCom                        | Coordinate water quality goals with Georgetown and Ipswich   | Goal met. ConCom Agent has engaged with the regional planning agency on coordinating BMPs consistent with EPA requirements. Through the Town's participation in the Parker River Clean Water Monitoring Program, we are making progress in this goal. PRCWA is working in Newbury and Georgetown |                    |
| Revised  |                                                                                                 |                               |                                                              |                                                                                                                                                                                                                                                                                                  |                    |

## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description                                                                             | Responsible Dept./Person Name | Measurable Goal(s)                                  | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                            | Planned Activities |
|----------|---------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 32       | Inventory all municipal operations which may contribute to storm water runoff water quality | Highway                       | Prepare a list of municipal operations.             | Goal met. Highway Department has list. Highway Department will work with ConCom agent on making a computerized database                                                                                                                                                                                                                                                             |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| 34       | Employee Training                                                                           | Highway                       | Workshops/Posters                                   | Goal met. Highway Department supervisor has provided verbal instruction and training. Supervisor has provided re-training when necessary. Public outreach flyers are available.                                                                                                                                                                                                     |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| 36       | Storage Facility Management                                                                 | Fire Department               | Inventory Stored Materials                          | Fire Chief has identified buildings containing stored materials. Fire Chief has a list of all materials stored in buildings on his list. He conducts an annual review, to reconcile the data he has with the businesses to confirm if they are still actively in business or have closed.                                                                                           |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| 39       | Spill Response Plan                                                                         | Fire Department               | Prepare plan and distribute to affected departments | Goal met. Fire Chief has a spill response plan in place dealing with certain types of hazardous waste disasters. These include the manner in which the Town addresses the response to spills of hazardous materials. Fire Chief will distribute it to the relevant Town departments. Chief is chairman of the Local Emergency Planning Commission, which oversees hazardous spills. |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
|          |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
|          |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| Revised  |                                                                                             |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                     |                    |

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

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8, 9, 10, 11, 12, 13 14 & 15<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities |
|----------|-----------------|-------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |
|          |                 |                               |                    |                                                                                                                          |                    |
| Revised  |                 |                               |                    |                                                                                                                          |                    |

**7a. Additions**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**7b. WLA Assessment**

## Part IV. Summary of Information Collected and Analyzed

### 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, 2017 through March 31, 2018)

#### Programmatic

|                                                               | (Preferred Units) | Response |
|---------------------------------------------------------------|-------------------|----------|
| Stormwater management position created/staffed                | (y/n)             | No       |
| Annual program budget/expenditures **                         | (\$)              | 0        |
| Total program expenditures since beginning of permit coverage | (\$)              | 0        |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) |                   | NA       |
|                                                               |                   |          |

#### Education, Involvement, and Training

|                                                                            |               |               |
|----------------------------------------------------------------------------|---------------|---------------|
| Estimated number of property owners reached by education program(s)        | (# or %)      | 50% or more   |
| Stormwater management committee established                                | (y/n)         | No            |
| Stream teams established or supported                                      | (# or y/n)    | Yes           |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n or mi.)  | NA            |
| Shoreline cleaned since beginning of permit coverage                       | (mi.)         | NA            |
| Household Hazardous Waste Collection Days                                  |               |               |
| ▪ days sponsored **                                                        | (#)           | 2             |
| ▪ community participation **                                               | (# or %)      | 130-160       |
| ▪ material collected **                                                    | (tons or gal) | 1,997 gal/lbs |
| School curricula implemented                                               | (y/n)         | No            |
|                                                                            |               |               |

## Legal/Regulatory

|                                                    | In Place<br>Prior to<br>Phase II | Reviewing<br>Existing<br>Authorities | Drafted | Draft<br>in<br>Review | Adopted |
|----------------------------------------------------|----------------------------------|--------------------------------------|---------|-----------------------|---------|
| Regulatory Mechanism Status (indicate with “X”)    |                                  |                                      |         |                       |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                                      | X       |                       | X       |
| ▪ Erosion & Sediment Control                       |                                  |                                      | X       |                       | X       |
| ▪ Post-Development Stormwater Management           |                                  |                                      | X       |                       | X       |
| Accompanying Regulation Status (indicate with “X”) |                                  |                                      |         |                       |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                                      | X       |                       | X       |
| ▪ Erosion & Sediment Control                       |                                  |                                      | X       |                       | X       |
| ▪ Post-Development Stormwater Management           |                                  |                                      | X       |                       | X       |

## Mapping and Illicit Discharges

|                                                                    | (Preferred Units)       | Response   |
|--------------------------------------------------------------------|-------------------------|------------|
| Outfall mapping complete                                           | (%)                     | Urban 100% |
| Estimated or actual number of outfalls                             | (#)                     | 61         |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%)                     | 45%        |
| Mapping method(s)                                                  |                         |            |
| ▪ Paper/Mylar                                                      | (%)                     |            |
| ▪ CADD                                                             | (%)                     |            |
| ▪ GIS                                                              | (%)                     | 100%       |
| Outfalls inspected/screened **                                     | (# or %)                | 10         |
| Outfalls inspected/screened (Since beginning of permit coverage)   | (# or %)                | 61         |
| Illicit discharges identified **                                   | (#)                     | 0          |
| Illicit discharges identified (Since beginning of permit coverage) | (#)                     | 0          |
| Illicit connections removed **                                     | (# ); and<br>(est. gpd) | 0          |
| Illicit connections removed (Since beginning of permit coverage)   | (#); and<br>(est. gpd)  | 0          |
| % of population on sewer                                           | (%)                     | 0%         |
| % of population on septic systems                                  | (%)                     | 100%       |

## Construction

|                                                                                                      | (Preferred Units) | Response |
|------------------------------------------------------------------------------------------------------|-------------------|----------|
| Number of construction starts (>1-acre) **                                                           | (#)               | 1        |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%)               | 100%     |
| Site inspections completed **                                                                        | (# or %)          | 40       |
| Tickets/Stop work orders issued **                                                                   | (# or %)          | 3        |
| Fines collected **                                                                                   | (# and \$)        | 0        |
| Complaints/concerns received from public **                                                          | (#)               | 1        |
|                                                                                                      |                   |          |
|                                                                                                      |                   |          |

## Post-Development Stormwater Management

|                                                                                                                          |          |      |
|--------------------------------------------------------------------------------------------------------------------------|----------|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%)      | 100% |
| Site inspections (for proper BMP installation & operation) completed **                                                  | (# or %) | 12   |
| BMP maintenance required through covenants, escrow, deed restrictions, etc.                                              | (y/n)    | yes  |
| Low-impact development (LID) practices permitted and encouraged                                                          | (y/n)    | yes  |
|                                                                                                                          |          |      |
|                                                                                                                          |          |      |

## Operations and Maintenance

|                                                                                              |                |             |
|----------------------------------------------------------------------------------------------|----------------|-------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **           | (times/yr)     | 1/yr.       |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr)     | 1/yr.       |
| Qty of structures cleaned **                                                                 | (#)            | 493         |
| Qty. of storm drain cleaned **                                                               | (%, LF or mi.) | 493         |
| Qty. of screenings/debris removed from storm sewer infrastructure **                         | (lbs. or tons) | 90-100 tons |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **             | (location)     | compost     |

|                                                   |                         |          |
|---------------------------------------------------|-------------------------|----------|
| Basin Cleaning Costs                              |                         |          |
| • Annual budget/expenditure (labor & equipment)** | (\$)                    | 8326.77  |
| • Hourly or per basin contract rate **            | (\$/hr or \$ per basin) | 16.89/hr |
| • Disposal cost**                                 | (\$)                    | 0        |
| Cleaning Equipment                                |                         |          |
| • Clam shell truck(s) owned/leased                | (#)                     | 2        |
| • Vacuum truck(s) owned/leased                    | (#)                     | 0        |
| • Vacuum trucks specified in contracts            | (y/n)                   | No       |
| • % Structures cleaned with clam shells **        | (%)                     | 100%     |
| • % Structures cleaned with vector **             | (%)                     | 0%       |

|                                                                                         |                    |            |
|-----------------------------------------------------------------------------------------|--------------------|------------|
|                                                                                         | (Preferred Units)  | Response   |
| Average frequency of street sweeping (non-commercial/non-arterial streets) **           | (times/yr)         | 1/yr.      |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr)         | 1/yr.      |
| Qty. of sand/debris collected by sweeping **                                            | (lbs. or tons)     | 60-80 tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **                | (location)         | compost    |
| Annual Sweeping Costs                                                                   |                    |            |
| • Annual budget/expenditure (labor & equipment)**                                       | (\$)               | 7150.00    |
| • Hourly or lane mile contract rate **                                                  | (\$/hr. or ln mi.) | 110/hr     |
| • Disposal cost**                                                                       | (\$)               | 0          |
| Sweeping Equipment                                                                      |                    |            |
| • Rotary brush street sweepers owned/leased                                             | (#)                | 1          |
| • Vacuum street sweepers owned/leased                                                   | (#)                | 0          |
| • Vacuum street sweepers specified in contracts                                         | (y/n)              | No         |
| • % Roads swept with rotary brush sweepers **                                           | %                  | 100%       |
| • % Roads swept with vacuum sweepers **                                                 | %                  | 0%         |

|                                                                                                                                |             |    |
|--------------------------------------------------------------------------------------------------------------------------------|-------------|----|
| Reduction (since beginning of permit coverage) in application on public land of:<br>("N/A" = never used; "100%" = elimination) |             |    |
| ▪ Fertilizers                                                                                                                  | (lbs. or %) | NA |

|                                                        |             |    |
|--------------------------------------------------------|-------------|----|
| ▪ Herbicides                                           | (lbs. or %) | NA |
| ▪ Pesticides                                           | (lbs. or %) | NA |
| Integrated Pest Management (IPM) Practices Implemented | (y/n)       | No |

|                                                                                                                                                          | (Preferred Units)                                                                         | Response                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|
| Average Ratio of Anti-/De-Icing products used **<br><br>(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | % NaCl<br>% CaCl <sub>2</sub><br>% MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>% Sand | 100%<br>NA<br>NA<br>NA<br>NA<br>NA<br>66% |
| Pre-wetting techniques utilized **                                                                                                                       | (y/n or %)                                                                                | No                                        |
| Manual control spreaders used **                                                                                                                         | (y/n or %)                                                                                | Yes 100%                                  |
| Zero-velocity spreaders used **                                                                                                                          | (y/n or %)                                                                                | No                                        |
| Estimated net reduction or increase in typical year salt/chemical application rate                                                                       | (±lbs/ln mi.<br>or %)                                                                     | 0%                                        |
| Estimated net reduction or increase in typical year sand application rate **                                                                             | (±lbs/ln mi.<br>or %)                                                                     | 0%                                        |
| % of salt/chemical pile(s) covered in storage shed(s)                                                                                                    | (%)                                                                                       | 100%                                      |
| Storage shed(s) in design or under construction                                                                                                          | (y/n or #)                                                                                | Yes                                       |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008                                                                                     | (y/n)                                                                                     | Yes                                       |
|                                                                                                                                                          |                                                                                           |                                           |
|                                                                                                                                                          |                                                                                           |                                           |

### Water Supply Protection

|                                                                                                   |          |     |
|---------------------------------------------------------------------------------------------------|----------|-----|
| Storm water outfalls to public water supplies eliminated or relocated                             | # or y/n | No  |
| Installed or planned treatment BMPs for public drinking water supplies and their protection areas | # or y/n | Yes |
| Treatment units induce infiltration within 500-feet of a wellhead protection area                 | # or y/n | No  |