



**Town of Rockland**  
Post Office Box 330  
**MASSACHUSETTS 02370**  
**SEWER COMMISSION**

Tel. (781) 878-1964  
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William Stewart, *Chairman*  
Walter Simmons, *Vice-Chairman*  
Gerald Esposito, III, *Commissioner*

June 29, 2006

JUL - 3 2006

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United States Environmental Protection Agency  
Water Technical Unit (WTU)  
P.O. Box 8127  
Boston, Massachusetts 02114

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
627 Main Street  
Worcester, Massachusetts 01608

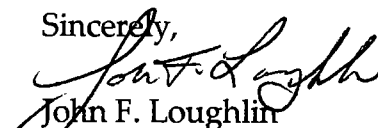
RE: NPDES Phase II Small MS4 General Permit  
Town of Rockland, Massachusetts Annual Report  
MADEP Transmittal No. W-036804  
EPA Permit Number MA041058

To Whom It May Concern:

The Town of Rockland, Massachusetts is pleased to provide you with the attached National Pollutant Discharge Elimination System (NPDES) Phase II Small MS4 General Permit Annual Report for the period from March 2005 to March 2006. During this period, the Town has continued the implementation of its Storm Water Master Plan, dated June 26, 2003. In general, activities have focused on the continued development of the Town's GIS system, including the Town-wide mapping of drainage structures and completion of the developed plans. The Town has developed a stormwater management program and will continue to implement activities in accordance with regulatory requirements and as available funding will allow.

Should you have any questions, please do not hesitate to call me at (781) 878-1964.

Sincerely,

  
John F. Loughlin

*Superintendent / Rockland Sewer Department*

JUL - 8 2006

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

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**EPA NPDES Permit Number: MA041058**

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**MaDEP Transmittal Number: W-036804**

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**Annual Report Number**

**& Reporting Period: No. 3: March 05-March 06**

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## **NPDES PII Small MS4 General Permit Annual Report**

### **Part I. General Information**

Contact Person: John Loughlin  
Rockland Sewer Department

Title: Superintendent / Town of

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Telephone #: 781-878-1964

Email: jloughlj@yahoo.com

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#### **Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

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Printed Name: John F. Loughlin

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Title: Superintendent / Rockland Sewer Department

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Date: June 29, 2006

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

In general, the Town of Rockland's stormwater management activities for the second year of the General Permit (March 2005 through March 2006) were in conformance with the Notice of Intent (Massachusetts DEP form BRP WM 08A) and schedule submitted in July 2003. The Town has developed a Stormwater Management Plan with program priorities for 2003-2008 including:

1. Achieving regulatory compliance, particularly EPA and DEP Phase II NPDES permit requirements;
2. Incorporating storm water protection measures into municipal activities;
3. Focusing activities on target pollution reduction (e.g. Section 303.d. waters and protecting the Town's water supply);
4. Ensuring that the Program is current and innovative; and
5. Providing Program administration.

The Water Quality Stewardship element of the program focuses on the protection of the local water supply and addressing the State's Section 303.d waters located within the Town. To this end, staff will continue to develop and improve the Program activities to reduce storm water pollution to the maximum extent practicable and eliminate prohibited non-storm water discharges, while facilitating understanding and involvement in storm water management by various Town departments. Program priorities will also focus on increased efforts to reduce target pollutants and restore local water bodies.

The Town is committed to working with local watershed associations to advance their goals and objectives. Another high priority of staff will be to keep abreast of the latest technology and approaches to achieve storm water management. Program activities will also strive to encourage environmental stewardship and continue to build on partnerships with other agencies, neighboring towns, and the community for active participation in accomplishing the Program mission.

The activities performed during Permit Year Three focused on the continued development of a Town-wide Geographic Information System, including drainage structure mapping. In addition, an outfall field screening and testing program was also implemented during this permit year, with the collected data compared with the applicable state and federal standards.

The Town also continued with control measures that were initiated during the previous permit year, including improving local good housekeeping programs; and communicating the Town's Plan to local watershed associations.

## 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 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4                                                        |
|----------|-----------------------------------------------|-------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1        | Partnership with local Watershed Associations | Con. Comm., DPW, BOH          | Regular Meeting Attendance         | Continued updates with North and South River Watershed Association                            | Continued updating, seek alternative funding opportunities (such as 604b and 319 grants). |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |
| 2        | Develop Brochures                             | DPW                           | Quarterly Mailings                 | Water department mailings and water quality updates.                                          | Continued mailings.                                                                       |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |
| 3        | WEB Site Public Service Postings              | IT Dept., DPW                 | WEB Site Publication & Maintenance | NSRWA information transfer and publication of data, local WEB updates                         | NSRWA information transfer and publication of data, local WEB updates                     |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |
| Revised  |                                               |                               |                                    |                                                                                               |                                                                                           |

#### 1a. Additions

|  |  |  |  |  |  |
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## 2. Public Involvement and Participation

| BMP ID # | BMP Description        | Responsible Dept./Person Name | Measurable Goal(s)                                          | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any)                                                                                            | Planned Activities – Permit Year 4                                             |
|----------|------------------------|-------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 4        | Water Quality Testing  | DPW                           | 2 Rounds of Water Quality Sampling of Priority Water Bodies | 60 outfalls located on public property were inspected and field screened during November 2004 for select indicator parameters. Based on the results, 31 were resampled during Dec. 2004. | Continue dry weather and wet weather field screening of outfalls after mapping |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |
| 5        | Community Cleanup Days | DPW                           | Annually                                                    | Conducted in Spring 2006                                                                                                                                                                 | Scheduled for Spring 2007                                                      |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |
| Revised  |                        |                               |                                                             |                                                                                                                                                                                          |                                                                                |

### 2a. Additions

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### 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description                                 | Responsible Dept./Person Name        | Measurable Goal(s)                                | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4                                     |
|----------|-------------------------------------------------|--------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 6        | Catch Basin/Outfall and Receiving Water Mapping | DPW                                  | GIS Mapping                                       | Drainage structure mapping and development of GIS mapping                                     | Tracing of any potential illicit discharges                            |
| Revised  |                                                 |                                      |                                                   |                                                                                               |                                                                        |
| 4        | Water Quality Testing                           | DPW                                  | Testing of Priority Water Bodies                  | Dry weather field screening and sampling was performed at all outfall locations.              | Targeted field screening of outfalls                                   |
| Revised  |                                                 |                                      |                                                   |                                                                                               |                                                                        |
| 7        | Regulatory Review                               | DPW, Planning Board, BOH, Con. Comm. | Regulatory Revisions and Action                   | Finalized consolidated regulations and investigate areas for revisions                        | Review regulations and identify areas for revisions                    |
| Revised  |                                                 |                                      |                                                   |                                                                                               |                                                                        |
| 8        | Permit Enforcement                              | DPW, Planning Board, BOH, Con. Comm. | Local Construction Site Oversight and Enforcement | Ongoing to comply with local bylaws, state and federal requirements                           | Ongoing to comply with local bylaws, state and federal requirements    |
| Revised  |                                                 |                                      |                                                   |                                                                                               |                                                                        |
| 9        | Misconnection/Illegal Dumping and Correction    | DPW, BOH                             | Connectivity Mapping, Bylaw Enforcement and Fines | Continued GIS mapping and local bylaw enforcement                                             | Continue and complete GIS mapping and continue local bylaw enforcement |
| Revised  |                                                 |                                      |                                                   |                                                                                               |                                                                        |

#### 3a. Additions

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#### 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description          | Responsible Dept./Person Name        | Measurable Goal(s)                                | Progress on Goal(s) – Permit Year 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4                                                |
|----------|--------------------------|--------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 7        | Regulatory Review        | DPW, Planning Board, BOH, Con. Comm. | Regulatory Revisions to Bylaws as Necessary       | Finalized consolidated regulations and investigate areas for revisions                        | Review regulations and identify areas for revisions                               |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |
| 8        | Permit Enforcement       | DPW, Planning Board, BOH, Con. Comm. | Local Construction Site Oversight and Enforcement | Ongoing to comply with local bylaws, state and federal requirements                           | Ongoing to comply with local bylaws, state and federal requirements               |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |
| 10       | Improved As-Built Review | DPW, Planning Board                  | Electronic As-Built Submittals on Town GIS System | Continued GIS mapping and local bylaw enforcement                                             | Complete GIS mapping and develop protocol for submitting as-builts electronically |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |
| Revised  |                          |                                      |                                                   |                                                                                               |                                                                                   |

##### 4a. Additions

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## 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 3<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 4                                   |
|----------|--------------------|--------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 7        | Regulatory Review  | DPW, Planning Board, BOH, Con. Comm. | Regulatory Revisions to Bylaws as Necessary       | Finalized consolidated regulations and investigate areas for revisions                        | Review regulations and identify areas for revisions                  |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |
| 8        | Permit Enforcement | DPW, Planning Board, BOH, Con. Comm. | Local Construction Site Oversight and Enforcement | Ongoing to comply with local bylaws, state and federal requirements.                          | Ongoing to comply with local bylaws, state and federal requirements. |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |
| Revised  |                    |                                      |                                                   |                                                                                               |                                                                      |

### 5a. Additions

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

| <b>BMP ID #</b> | <b>BMP Description</b>         | <b>Responsible Dept./Person Name</b> | <b>Measurable Goal(s)</b> | <b>Progress on Goal(s) – Permit Year 3<br/>(Reliance on non-municipal partners indicated, if any)</b> | <b>Planned Activities – Permit Year 4</b>                          |
|-----------------|--------------------------------|--------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 11              | Improved Street Sweepings      | DPW                                  |                           | Semi-annual Collections                                                                               | Semi-annual Collections                                            |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |
| 12              | Improved Catch Basin Cleanings | DPW                                  |                           | Semi-annual Collections                                                                               | Semi-annual Collections                                            |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |
| 13              | Household Hazardous Waste Days | DPW                                  |                           | Annual Collection                                                                                     | Annual Collection                                                  |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |
| 14              | Drain Stenciling               | DPW                                  | Aquifer Protection Area   | GIS Mapping continuing to locate catch basins                                                         | Complete GIS mapping and stencil drains in Aquifer Protection Area |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |
| Revised         |                                |                                      |                           |                                                                                                       |                                                                    |

### 6a. Additions

|    |                   |     |                    |                                                                               |                                                                                                |
|----|-------------------|-----|--------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 18 | Employee Training | DPW | Seminar Attendance | Attended GIS Mapping Seminar Sponsored by Plymouth County Highway Association | Will Attend Goodhousekeeping Training Seminar Sponsored by Plymouth County Highway Association |
|    |                   |     |                    |                                                                               |                                                                                                |

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

| <b>BMP ID #</b> | <b>BMP Description</b>              | <b>Responsible Dept./Person Name</b> | <b>Measurable Goal(s)</b>                            | <b>Progress on Goal(s) – Permit Year 3<br/>(Reliance on non-municipal partners indicated, if any)</b> | <b>Planned Activities – Permit Year 4</b>                          |
|-----------------|-------------------------------------|--------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 6               | GIS Mapping                         | DPW                                  | GIS Mapping of Priority Waters and Drainage Patterns | Mapping of drainage structures ongoing                                                                | Continue drainage structure mapping and development of GIS mapping |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |
| 4               | Water Quality Testing               | DPW                                  | Semi-Annual Water Quality Testing                    | Dry weather field screening of all outfall locations.                                                 | Continue field screening at targeted outfall locations             |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |
| 15              | Stormwater Modeling                 | DPW                                  | Needs Assessment for Category 5 Water Bodies         | Mapping of drainage structures ongoing                                                                | Continue drainage structure mapping and development of GIS mapping |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |
| 16              | Misc. Structural BMPs as Needed     | DPW                                  | i.e. Construction Improvements                       | None to date                                                                                          | To be determined                                                   |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |
| 17              | Misc. Non-Structural BMPs as Needed |                                      |                                                      | None to date                                                                                          | To be determined                                                   |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |
|                 |                                     |                                      |                                                      |                                                                                                       |                                                                    |
| Revised         |                                     |                                      |                                                      |                                                                                                       |                                                                    |

**7a. Additions**

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|  |  |  |  |  |  |
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#### **7b. WLA Assessment**

To date, the Town has focused on available funding sources. GIS mapping of the drainage system and receiving waters has begun and water quality testing will continue in the coming year. WLA assessment will follow.

## **Part IV. Summary of Information Collected and Analyzed**

### **Permit Year 1 Activities and Information**

During the previous Permit Year, the Town reviewed the local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they appeared to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. Minor revisions may be required for informing local project proponents of the Phase II one-acre NPDES requirement. The Town also received a project approval certificate from the Massachusetts Water Abatement Trust State Revolving Fund for \$250,000 during the previous period.

### **Permit Year 2 Activities and Information**

During Permit Year 2, an outfall inspection program revealed that of the estimated 206 outfall pipe locations, 60 locations estimated to be on public property were observed to have dry weather flow in November 2004. These locations were field screened for the following:

1. pH;
2. Temperature;
3. Total Dissolved Solids;
4. Specific Conductance; and
5. Turbidity.

Based on the field data, 31 of the outfall locations were resampled for the following in December 2004:

1. E-coli;
2. Total Phosphorous,
3. Dissolved Phosphorous,
4. Ammonia,
5. Surfactants, and
6. Total Suspended Solids.

Of these samples, 8 locations had elevated levels of e-coli above the State's Secondary Maximum Contaminant level of 126 (colonies/100 mL). Elevated levels ranged from 160 to 520 colonies/100 mL. Similar wet weather testing is schedule for the spring of 2005.

Elevated levels of e-coli may be representative of warm blooded animals (such as humans) or cold blooded animals. Following the wet weather testing and further discussions with the Town, additional testing of Fecal Coliform bacteria or Fecal Strep may be recommended to ascertain potential sources.

In April 2004, Photogrammetric Technology Inc. (PTI) conducted aerial photography of the Town. The 660 scale color aerial photography was supplemented by ground control appropriate for ASPRS Class I standards for large scale mapping and National Map Accuracy Standards. Over the past several months planimetric data has been developed on the Massachusetts State Plane coordinate system of 1983 (U.S. Survey in feet) and the National Geodetic Vertical Datum (NGVD) of 1988. Project deliverables include:

- Three (3) copies of a Ground Control Survey Report.
- Three (3) copies of an Analytical Aerial Triangulation Report.
- One (1) set of 500-scale planimetric drawings (to be replaced in the future by 100 scale mapping).

All digitized data will be delivered on CD-ROM in AutoCAD 2000 and ArcView 8.3 format. The features to be layered include the following:

- Edge of Pavement
- Unpaved Roads
- Road Centerline
- Driveway
- Parking
- Bridges
- Buildings
- Buildings under Construction
- Mobile Homes and Trailers

- Pools
- Hydrographic Features (Lakes, Ponds, Rivers, Streams, Swamps)
- Drainage Ditches
- Airports
- Railroads
- Transmission Pylons
- Transformer Stations
- Property Fences and Walls
- Woodlands and Treelines (by linetype not scalloped)
- Utility Features (Poles, Manholes, Catch Basins, Hydrants, Vaults).

Topographic Features (Index Contour, Intermediate Contour, Spot Elevations) are in production and the data has been developed in both AutoCAD and ArcInfo format. The next stage will be overlay of assessor map information

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town has taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar has been schedule by the PCHA for Summer 2004.

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

**TO BE COMPLETED IN LATER YEARS OF THE PERMIT PROGRAM**

**Programmatic**

|                                                |       |  |
|------------------------------------------------|-------|--|
| Stormwater management position created/staffed | (y/n) |  |
| Annual program budget/expenditures             | (\$)  |  |
|                                                |       |  |
|                                                |       |  |

**Education, Involvement, and Training**

|                                                                         |               |  |
|-------------------------------------------------------------------------|---------------|--|
| Estimated number of residents 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.)  |  |
| Household Hazardous Waste Collection Days                               |               |  |
| ▪ days sponsored                                                        | (#)           |  |
| ▪ community participation                                               | (%)           |  |
| ▪ material collected                                                    | (tons or gal) |  |
| School curricula implemented                                            | (y/n)         |  |
|                                                                         |               |  |
|                                                                         |               |  |

## Legal/Regulatory

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

## Mapping and Illicit Discharges

|                                        |                    |  |
|----------------------------------------|--------------------|--|
| Outfall mapping complete               | (%)                |  |
| Estimated or actual number of outfalls | (#)                |  |
| System-Wide mapping complete           | (%)                |  |
| Mapping method(s)                      |                    |  |
| ▪ Paper/Mylar                          | (%)                |  |
| ▪ CADD                                 | (%)                |  |
| ▪ GIS                                  | (%)                |  |
| Outfalls inspected/screened            | (# or %)           |  |
| Illicit discharges identified          | (#)                |  |
| Illicit connections removed            | (# )<br>(est. gpd) |  |
| % of population on sewer               | (%)                |  |
| % of population on septic systems      | (%)                |  |
|                                        |                    |  |
|                                        |                    |  |



## Construction

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

## Post-Development Stormwater Management

|                                                                                                                          |          |  |
|--------------------------------------------------------------------------------------------------------------------------|----------|--|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%)      |  |
| Site inspections completed                                                                                               | (# or %) |  |
| Estimated volume of stormwater recharged                                                                                 | (gpy)    |  |
|                                                                                                                          |          |  |
|                                                                                                                          |          |  |

## Operations and Maintenance

|                                                                                                |                |  |
|------------------------------------------------------------------------------------------------|----------------|--|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | (times/yr)     |  |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | (times/yr)     |  |
| Total number of structures cleaned                                                             | (#)            |  |
| Storm drain cleaned                                                                            | (LF or mi.)    |  |
| Qty. of screenings/debris removed from storm sewer infrastructure                              | (lbs. or tons) |  |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |                |  |
| Cost of screenings disposal                                                                    | (\$)           |  |
|                                                                                                |                |  |
|                                                                                                |                |  |

|                                                                            |            |  |
|----------------------------------------------------------------------------|------------|--|
| Average frequency of street sweeping (non-commercial/non-arterial streets) | (times/yr) |  |
|----------------------------------------------------------------------------|------------|--|

|                                                                                      |                |  |
|--------------------------------------------------------------------------------------|----------------|--|
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr)     |  |
| Qty. of sand/debris collected by sweeping                                            | (lbs. or tons) |  |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                | (location)     |  |
| Cost of sweepings disposal                                                           | (\$)           |  |
| Vacuum street sweepers purchased/leased                                              | (#)            |  |
| Vacuum street sweepers specified in contracts                                        | (y/n)          |  |
|                                                                                      |                |  |
|                                                                                      |                |  |

|                                                                                        |             |  |
|----------------------------------------------------------------------------------------|-------------|--|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) |             |  |
| ▪ Fertilizers                                                                          | (lbs. or %) |  |
| ▪ Herbicides                                                                           | (lbs. or %) |  |
| ▪ Pesticides                                                                           | (lbs. or %) |  |
|                                                                                        |             |  |
|                                                                                        |             |  |

|                                                          |                                                                                           |  |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------|--|
| Anti-/De-Icing products and ratios                       | % NaCl<br>% CaCl <sub>2</sub><br>% MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>% Sand |  |
| Pre-wetting techniques utilized                          | (y/n)                                                                                     |  |
| Manual control spreaders used                            | (y/n)                                                                                     |  |
| Automatic or Zero-velocity spreaders used                | (y/n)                                                                                     |  |
| Estimated net reduction in typical year salt application | (lbs. or %)                                                                               |  |
| Salt pile(s) covered in storage shed(s)                  | (y/n)                                                                                     |  |
| Storage shed(s) in design or under construction          | (y/n)                                                                                     |  |
|                                                          |                                                                                           |  |
|                                                          |                                                                                           |  |