



**NPDES Phase II Small MS4 General Permit  
Annual Report**

**Municipality/Organization:** Town of Uxbridge  
**EPA NPDES Permit Number:** MAR-04-1166  
**MaDEP Transmittal Number:** W-050211  
**Annual Report:** No. 15  
**Number & Reporting Period:** April 1, 2017 through March 31, 2018

**Part I. General Information**

**Contact Person:** Benn Sherman, P.E. **Title:** Director of Public Works  
**Telephone #:** (508)278-8616 **Email:** bsherman@uxbridge-ma.gov

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

Signature: \_\_\_\_\_

Printed Name: Angeline Ellison

Title: Town Manager

Date: May 1, 2018

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

The Town of Uxbridge has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

**Part II.B.1-6** Any Provisions of Part II.B.1-6 that have not been met are detailed in Part III below.

In Year 15, the Town of UXBRIDGE continued to be an active participant in the Central Massachusetts Regional Stormwater Coalition (the Coalition). The Coalition's work in Year 15 (which overlaps municipal fiscal years 2017 and 2018) was funded entirely by contributions of approximately \$4,000 from each of the participating Towns, including UXBRIDGE.

The Central Massachusetts Regional Stormwater Coalition (CMRSWC) is an MS4 resource for all 30 member communities. CMRSWC has three standing sub-committees to allow members to focus efforts on specific issues important to the Coalition. These sub-committees are:

- Education Sub-Committee: responsible for developing and promoting outreach and educational materials required by the MS4 permit. The Education sub-committee is also responsible for planning and scheduling the Annual Meeting, educational workshops, and other forums for discussion of MS4 topics. The committee is CMRSWC's primary liaison to professional organizations and university partnerships.
- Technical Sub-Committee: responsible for managing Coalition's website and shared equipment resources; advising members on relevant technical issues including GIS system maintenance and upgrades.
- Legislative Sub-Committee: serves as the liaison to the Massachusetts Statewide Stormwater Collaborative; responsible for tracking MS4 related legislation and regulations and keeping the legislature and regulatory agencies informed of the concerns of member communities.

The CMRSWC Steering Committee held four meetings during this 12 month reporting cycle. The CMRSWC Annual Meeting was held on November 15, 2017 in Worcester. Members of CMRSWC also attended and actively participated in the Massachusetts Statewide Municipal Stormwater Coalition meetings.

### **MS4 Workshops and Technical Training (Minimum Control Measures 3, 4, 5, and 6)**

#### ***Best Management Practices Technical Tour***

On October 25, 2017, CMRSWC sponsored a technical tour and workshop for DPWs, Highway, and other staff in member communities responsible for the operations and maintenance of local roads, drainage, sidewalks, parking lots, and other public infrastructure. The tour was led by a team from Fuss & O'Neill and took attendees from 14 communities on a "road trip" to visit sites at Dennison Lubricants (Worcester), Tufts Veterinary School (North Grafton), and several Mass DCR sites. At each site, participants had the opportunity to learn about the BMPs in use at the site from a variety of staff from DCR and Mass DOT, as well as engineers and project owners. A lunch program offered additional opportunities to discuss stormwater management techniques. Handouts, presentation materials, and video footage of the tour are being offered to CMRSWC members through the website.

#### ***Videos and Templates (Minimum Control Measures 1, 3, 4, 5, 6)***

As a follow-up to the Best Management Practices Technical Tour, 12 new CMRSWC videos were produced that feature the various BMPs visited on the tour, presentations from the day, and additional detailed footage recorded at the BMP sites after the event.

#### ***Department of Conservation and Recreation Education and Outreach Materials (Minimum Control Measures 1 and 2)***

As part of the Stormwater BMP Technical Tour, Kelley Freda from the Department of Conservation and Resources presented participants with stormwater education and outreach materials available from DCR. She distributed a packet of various brochures targeting a diverse audience. These materials are available

from the DCR website [www.mass.gov/dcr/watersupply](http://www.mass.gov/dcr/watersupply)

### **Worcester Polytechnic Institute Water Resource Outreach Center (Minimum Control Measures 1 and 2)**

Worcester Polytechnic Institute's (WPI) Massachusetts Water Resource Outreach Center (WROC) is dedicated to assisting Central and Eastern Massachusetts municipalities and watershed associations with their water resource needs through student project collaboration. CMRSWC has been working with the WPI-WROC and MassDEP on Interactive Qualifying Projects (IQPs) since 2012.

The CMRSWC and MassDEP sponsored a 2017 WPI-WROC project called "Stormwater Management Educational Materials for Central Massachusetts Municipalities." Municipalities are required to distribute educational materials on stormwater issues to comply with the MS4 permit; "the ultimate objective being to increase knowledge and change behavior of the public so that pollutants in stormwater are reduced." The project team used public surveys and questionnaires to assess the public's understanding of stormwater and stormwater runoff. The results showed that most people do not understand what stormwater is, how it gets into our waterbodies and the impacts it has on water quality and public health. Focusing on increasing awareness of the importance of protecting our water among our elementary school student population, the WPI students developed a stormwater toolkit featuring an activity book and stickers for children. The activity book includes opportunities for parents to participate and ask questions.

Building on the previous work for educational materials, the 2018 student team worked with stormwater experts at MassDEP, MA Department of Education representatives and school teachers from Shrewsbury and Holden to develop a 5<sup>th</sup> grade watershed curriculum that meets the new Massachusetts Next Generation science standards. Components of the curriculum include the water cycle, watersheds, stormwater runoff and other environmental features that demonstrate to children how runoff and contaminants affect water quality. The students will be presenting their findings on May 1, 2018 at 4:00 p.m. at the MassDEP Central Regional Office in Worcester.

More information is available at: <http://wp.wpi.edu/wroc/>

### **EnviroScape Nonpoint Source Pollution Model (Minimum Control Measures 1 and 2)**

**The CMRSWC owns two 3D EnviroScape® Watershed/Nonpoint Source models which are available for use by our members. These models provide a hands-on, interactive demonstration of the sources and effects of water pollution and ways to prevent pollution.** The CMRSWC sponsored a booth at the EcoTarium's Earth Day Celebration in April using the model to teach about stormwater education. Several member communities including Holden, Charlton, Framingham, Hopkinton, Lunenburg, Palmer, Shrewsbury, Auburn, & Dudley have used the EnviroScape model for presentations at Earth Day festivals, school programs, scouting events, and public works open houses.

### **Member Needs Survey**

In March 2018, CMRSWC contracted with Fuss & O'Neill to develop a technical needs survey that measured the concerns of member communities with respect to compliance with the updated MS4 General Permit for Stormwater Discharges (which is currently stayed pending judicial review). The survey served as a follow-up to the first coalition member survey in the fall of 2016 and asked members to rank certain programs/tasks that CMRSWC could support to assist members in complying with the MS4 Permit. The survey also requested that respondents identify the CMRSWC tools, resources, and events that they made use of during 2017 or provide feedback on why they chose not to take advantage of such tools or events.

Coalition members ranked their needs as follows:

1. Maintain the CMRSWC Website with Available Tools and Templates
2. Provide Written IDDE Program Template and Training
3. Provide NOI/SWMP Template and Training

Coalition members ranked their compliance concerns as follows:

1. Preparation of NOI and SWMP
2. Performing Outfall Inspections
3. Performing Outfall Inventory Ranking
4. Meeting TMDL Requirements
5. Developing Written Catchment Investigation Procedures
6. Designing and Constructing BMP Retrofits
7. Designing and Maintaining SWPPPs
8. Identifying and Removing Illicit/Illegal Discharges
9. Developing a Written IDDE Program
10. Mapping the Storm Sewer System

### **Statewide Stormwater Coalition Grant Award**

CMRSWC announced at its January 8<sup>th</sup> Steering Committee Meeting a \$200,000 grant from the State to the Statewide Stormwater Coalition to develop and implement a statewide stormwater education and outreach campaign. The project will provide stormwater education materials to communities across the state, including CMRSWC member communities. The funds, issued through the Commonwealth's Fiscal Year 2018 "MS4 Municipal Assistance Grant Program," recognize the important work of stormwater coalitions and regionalized stormwater management. Materials will be made available in July 2018.

### **Conclusion**

Working as a group, CMRSWC collectively protects regional water resources while assisting communities with meeting requirements of the MS4 permit in an efficient and cost-effective manner. Member communities continue to benefit from the use of CMRSWC tools, resources, and events to continue to implement their MS4 program with local staff and resources.

In Year 14, Uxbridge continued to utilize several presentations on stormwater management, with content focused on educating elected officials and municipal department heads about the requirements of the 2003 Small MS4 Program, changes likely in the anticipated 2016 Massachusetts MS4 Permit, and the financial impact these potential changes may have on Massachusetts communities. This was completed as part of the Community Compact Grant to evaluate the feasibility of a stormwater utility. In September 2017, the DPW presented the findings of the Does It Make Sense (DIMS) which recommended moving forward with the development of a Stormwater Utility/Enterprise fund.

*Part III. Summary of Minimum Control Measures*

**1. Public Education and Outreach**

<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 15</b> (Reliance on non-municipal partners indicated, if any)	<b>Continuing Activities</b>
1.1	Classroom Education on Stormwater	Department of Public Works	Three grade levels participate, three sets of educational materials, two workshops for teachers.	Materials from the EPA, BRWA and DEP distributed to the public schools. Teachers currently teaching environmental sciences to three plus grade levels.	Establish a new resource/contact person at the Uxbridge Public Schools. Examples of tasks would include utilizing the Central Massachusetts Regional Stormwater Coalition (CMRSWC) Non-Point source Enviroscope model.
Revised					
1.2	Flyer and Brochure Distribution	Department of Public Works	Develop and distribute one flyer and two fact sheets, distribute in utility bills and Town buildings (eg. DPW, library, town hall).	A stormwater flyer is posted in DPW office entryway. Uxbridge continued as a member of the CMRSWC. The Coalition has developed a number of public information products for use by the member communities. Developed stormwater bylaw fact to support passage of bylaw. Actively posted 4 water quality related social media posts.	Continue to post a stormwater flyer in the DPW office and Town Hall. In anticipation of the new MS4 permit, evaluate materials and develop new materials which reflect the changing trends in stormwater management. Continue with our involvement with the CMRSWC. Further develop and promote stormwater awareness through the use of social media (Facebook) and the Town’s website.
Revised					

<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 15</b> (Reliance on non-municipal partners indicated, if any)	<b>Continuing Activities</b>
1.3	Using the Media	Department of Public Works	One article published local cable service announcement and press release each year.	Stormwater Management Guides for Homeowners, Small Farms, and Horse Owners are posted on the Town’s website for the Planning Department. Scheduled two new stormwater educational programs to run on local cable access; reposted Think Blue videos on social media; No articles or press releases were published in Permit Year 15. The CMRSWC has developed a number of public information products for use by the member communities. Several postings were made to town wide social media accounts relative to stormwater education.	Continue to update and post Stormwater Management articles on the Town’s website. Publish one article and one press release during next program year. Continue with our involvement with the CMRSWC. Continue with the use of social media to promote stormwater awareness.
Revised					
1.4	Hazardous Waste Management	Department of Public Works	Track the amount of household hazardous waste collected during days.	Continued teaming with Town of Blackstone for collection of household hazardous materials in Blackstone. The facility is typically open three days per week and year round. Additionally, a metals recycling collections and leaf/brush disposal program was conducted 2-3 days per week from April through December. Local organizations in the Town of Uxbridge ran recycling fundraising programs for tvs, appliances, and computers.	Continue to encourage teaming efforts with area Town’s to collect household hazardous materials. Uxbridge to continue to leaf/brush disposal and metal recycling program at the Compost Facility. Continue to promote local organizations to run recycling fundraising programs for tvs, appliances, and computers. Continue supporting the Board of Health in further developing the initiatives of recycling and sustainability committee..
Revised		Department of Public Works / Board of Health	Team with neighboring towns to hold collection days.		

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Continuing Activities
2.1	Storm Water Committee	Department of Public Works	Establish committee and meet quarterly.	The town had difficulties with filling the vacancies on the Stormwater Committee. Once filed, the Town will continue with the development of stormwater regulations.	Develop applicable rules and regulations in support of the new bylaw.
Revised					
2.2	Stream Cleanup and Monitoring	Department of Public Works	Create a document which outlines procedures for stream cleanup and monitoring.	Two events were conducted during this permit year. These events were done in conjunction with Earth Day and a local Riverways event.	Local groups will continue yearly cleanups
Revised			Yearly cleanups by local groups		
2.3	Stencil Storm Drains	Department of Public Works	Prioritize areas to be stenciled. Stencil 30 storm drains per year starting in year three.	No storm drains were stenciled in Permit Year 15. Ordered stormwater stencils for use in FY2019.	Look for opportunities to encourage public service groups to jump start stenciling program.
Revised					
2.4	Attitude Surveys	Department of Public Works	Two surveys completed, compiled and analyzed.	Uxbridge participated in a Coalition sponsored event to provide support and training with water quality test kits, inspections and system mapping. Presented a “Does it Make Sense” presentation to the Board of Selectmen on September 11, 2017. This presentation provided the background of the MS4 program and outlined the needs. It further expanded on the need for a dedicated source of funding (utility). The BOS voted to move forward with the development of a utility.	Continue with our involvement with the CMRSWC and participation in workshops. Anticipate further workshops as we move forward with funding utility.
Revised	Stormwater Workshops	Department of Public Works	Organize and hold one Stormwater Workshop per year.		

<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 15 (Reliance on non-municipal partners indicated, if any)</b>	<b>Continuing Activities</b>
2.5	Community Hotline	Department of Public Works	Establish hotline, track number of calls and number of problems/incidents remedied.	As a result of town-wide upgrades, the Hotline was taken offline. Calls are predominantly received through the general DPW phone number and entered into the DPW's Service Request/Work Order System. The Town also engages SeeClickFix for service requests (direct citizen engagement). The DPW received eight (8) illegal dumping and three (5) drainage service requests.	Continue to track number of calls and number of problems/incidents remedied through the DPW's Service Request/Work Order system.
Revised					
2.6	Stormwater System Service Request	Department of Public Works	Create service request system for issue tracking.	Based on calls received from the public with complaints or observations about stormwater or illegal dumping, the DPW can log the complaint into a system for follow-up. If required, a work order can generated (see MCM6) for additional required action or maintenance.	Continue to track service request and work orders with system.
Revised					
2.7	SeeClickFix Service Request System	Department of Public Works	Citizen Engagement Service Request System.	To encourage additional citizen engagement, the DPW partnered with SeeClickFix to provide forward facing options for the citizenry of Uxbridge to provide observations and information to the DPW.	Continue to track service request and work orders with system.
Revised					

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Continuing Activities
3.1	Illicit Discharge Bylaw or Regulation	Department of Public Works	Develop bylaw and present it to the Town meeting or adopt a regulation.	The Town adopted by reference the 2004 Illicit Discharge Detection and Elimination Guidance Manual with amendments during Year 12 & 13. A new stormwater bylaw was developed and brought forth for consideration at the 2015 Fall Town Meeting. A 2/3's majority was obtained for passage.	Continue with the development of rules and regulations. Begin additional compliance training for staff.
Revised					
3.2	Drainage System Inspections and Mapping	Department of Public Works	Locate drainage structures with GPS unit, update the GIS databases and system map, and inspect each structure.	The DPW engaged our consultant (BETA) to perform a comprehensive inspection of the stormwater drainage system, including condition assessment and evaluation of water quality parameters. Data have been incorporated into the CWRSWC Coalition GIS Platform.	The Town will process the data from the consultant to begin prioritization of catch basin cleaning and outfalls.
Revised					
3.3	Inspect and Sample Discharges in UAs	Department of Public Works	Inspect and sample discharges in Urban Areas if flow is present.	Conducted a comprehensive review of outfalls and catch basin inspections.	The Town will be prioritizing outfalls and review sampling needs.
Revised			Inspect discharges after mapping is complete and sample if flow is present.		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Continuing Activities
3.4	Illegal Dumping Education	Department of Public Works	Track the number of educational tools distributed, illegal dumps reported, penalties, rewards to citizens, and illegal dumps cleaned up.	<p>Illegal dumping materials have been provided to schools in BMP's 1.1 and 1.2.</p> <p>Eight (8) calls were received through the main DPW number and SeeClickFix for illegal dumping activities. These activities included items ranging from used tires to various household items.</p>	Track the number of educational tools distributed, illegal dumps reported, penalties, rewards to citizens, and illegal dumps cleaned up.
Revised			Coordinate with non-municipal partner to include illegal dumping materials in the classroom education, flyers and brochures in BMP's 1.1 and 1.2. Track the number of educational tools distributed, illegal dumps reported, penalties, rewards to citizens, and illegal dumps cleaned up.		

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15 (Reliance on non-municipal partners indicated, if any)	Continuing Activities
4.1	Soil and Erosion Control Bylaw or Regulation	Department of Public Works	Develop bylaw and present it to the Town meeting, or adopt a regulation.	Continued to implement bylaw. Conservation Commission issued one (1) and Planning Board issued one (1) stop work orders	Continue with the development of rules and regulations. Continue to monitor construction activities.
Revised					
4.2	Construction Inspections	Department of Public Works	DPW to inspect construction activities on a weekly basis. Report number of complaints from residents.	There were a number of inspections for construction activities conducted by the DPW as well as the Town's consultant to the Planning Board and Conservation Commission. The Town conducted a total of two (2) pre-construction meetings.	Continue to coordinate with the various boards and commissions on developing a program to inspect construction sites. The Town will continue to report number of complaints from residents.
Revised		DPW/Conservation Commission, Planning Board	Develop inspection form for documenting inspections.		

#### 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 15 (Reliance on non-municipal partners indicated, if any)	Continuing Activities
5.1	Bylaw or Regulation for Post Construction Runoff	Department of Public Works	Develop bylaw and present it to the Town meeting or adopt a regulation.	A new stormwater bylaw was developed and brought forth for consideration at the 2015 Fall Town Meeting. A 2/3's majority was obtained for passage	Continue with the development of rules and regulations. The stormwater committee will be used to facilitate this process.
Revised					
5.2	BMP Inspection and Maintenance	Department of Public Works	Inspect all Town maintained structural BMPs bi-annually, document the number of problems identified and remedied, review changes in water quality of effluent.	The DPW performed two BMP inspections and multiple inspections for new roadways requesting acceptance by the Town. The Town performed maintenance on two detention ponds.	The Towns plans to continue to implement the inspection and maintenance program to inspect all Town maintained structural BMPs, document the number of problems identified and remedied, and review changes in water quality of effluent.
Revised					

**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 15</b> (Reliance on non-municipal partners indicated, if any)	<b>Continuing Activities</b>
6.1	Predictive Catch Basin Program	Department of Public Works	Develop a standardized catch basin and storm drain inspection program, collect data, refine based on trends.	The Town cleaned and repaired 40 catch basins during this permit year. We continue to experience mechanical issues with the in house catch basin cleaner, budget cuts, and a shortfall in staff.	The Town plans to continue with the development of a cleaning program in accordance with the upcoming permit and repairing catch basins as budgets and equipment operation allow.
Revised					
6.2	Street Cleaning	Department of Public Works	Sweep all streets once in years 1-2, twice in years 3-5, sweep all parking lots annually, in year five sweep lots twice.	The Town swept all streets at least once during the permit year. The streets within the downtown area (10%) were swept on a number of occasions which coincided with special events. The remainder of the streets were swept at least once. .	As funding becomes available, continue sweeping activities within the UAs twice and the remaining streets once per year. The Town secured funding for the purchase of a replacement street sweeper.
Revised					
6.3	Investigate Town Owned BMPs for Retrofit Opportunities	Department of Public Works	Inspect all the BMPs annually.	The DPW continued development of a program to inspect Town maintained structural BMPs.	The Towns plans to continue to develop a program to inspect all Town maintained structural BMPs, document the number of problems identified and remedied, and review changes in water quality of effluent. BMP inspections will begin during the next annual cycle.
Revised					
6.4	Stormwater System Condition Work Orders	Department of Public Works	Provide ability to report condition and request maintenance in the field	The Town implemented the Work Order system at the start of FY2018.	Continue to monitor work orders and maintenance activities.
Revised					

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

Not Applicable. TMDL’s have not been developed for any of the impaired water bodies in Uxbridge.

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

The Town has completed GIS based mapping for water, wastewater and stormwater systems constructed prior to 2006. During the past fiscal year, the Town engaged a consultant to do a comprehensive update to the drainage system and outfalls. This work added subdivisions that were accepted following the initial development. To accomplish this, the Town authorized funding through Town Meeting (Fall 2017) to continue with new data collection of completed roads and infrastructure since the GIS was developed. Existing data verification and addition of undocumented stormwater collection system components will be the focus going forward.

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

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	<b>No</b>
Annual program budget/expenditures	(\$)	<b>Not Determined</b>
Total program expenditures since beginning of permit coverage	(\$)	<b>Not Determined</b>
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		<b>General Fund</b>

The Town secured a Community Compact Grant to evaluate the potential of developing a Stormwater Utility. The final report is anticipated to be presented to the Board of Selectmen during FY2017.

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	<b>&gt;65%</b>
Stormwater management committee established	(y/n)	<b>Yes</b>
Stream teams established or supported	(# or y/n)	<b>Not within town but supported through local watershed associations</b>
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	<b>Yes</b>
Shoreline cleaned since beginning of permit coverage	(mi.)	<b>Unknown</b>
Household Hazardous Waste Collection Days *		
▪ days sponsored	(#)	*
▪ community participation	(# or %)	*
▪ material collected	(tons or gal)	*
School curricula implemented	(y/n)	*

**\*Performed in conjunction with surrounding Towns.**

**Legal/Regulatory**

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

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	<b>100%</b>
Estimated or actual number of outfalls	(#)	<b>366</b>
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	<b>100%</b>
Mapping method(s)		
▪ Paper/Mylar	(%)	<b>5%</b>
▪ CADD	(%)	
▪ GIS	(%)	<b>95%</b>
Outfalls inspected/screened	(# or %)	<b>100%</b>
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	<b>100%</b>
Illicit discharges identified	(#)	<b>0</b>
Illicit discharges identified (Since beginning of permit coverage)	(#)	<b>0</b>
Illicit connections removed	(# ); and (est. gpd)	<b>None</b>
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	<b>35%</b>
% of population on septic systems	(%)	<b>65%</b>

**Construction**

	(Preferred Units)	Response
Number of construction starts (>1-acre)	(#)	<b>2</b>
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	<b>100%</b>
Site inspections completed	(# or %)	<b>100%</b>
Tickets/Stop work orders issued	(# or %)	<b>2</b>

Fines collected	(# and \$)	<b>0</b>
Complaints/concerns received from public	(#)	<b>&lt;5</b>

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections (for proper BMP installation & operation) completed	(# or %)	<b>2</b>
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	<b>Yes</b>

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	<b>&lt;1</b>
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	<b>&lt;1</b>
Qty of structures cleaned	(#)	<b>40</b>
Qty. of storm drain cleaned	(%, LF or mi.)	<b>250 LF</b>
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	<b>&lt;30 CY +/-</b>
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.)	(location)	<b>See (A) below</b>
Basin Cleaning Costs		
<ul style="list-style-type: none"> <li>Annual budget/expenditure (labor &amp; equipment)</li> </ul>	(\$)	<b>General budget</b>
<ul style="list-style-type: none"> <li>Hourly or per basin contract rate</li> </ul>	(\$/hr or \$ per basin)	
<ul style="list-style-type: none"> <li>Disposal cost</li> </ul>	(\$)	<b>See (A) below</b>
Cleaning Equipment		
<ul style="list-style-type: none"> <li>Clam shell truck(s) owned/leased</li> </ul>	(#)	<b>1</b>
<ul style="list-style-type: none"> <li>Vacuum truck(s) owned/leased</li> </ul>	(#)	<b>0</b>
<ul style="list-style-type: none"> <li>Vacuum trucks specified in contracts</li> </ul>	(y/n)	<b>0</b>
<ul style="list-style-type: none"> <li>% Structures cleaned with clam shells</li> </ul>	(%)	<b>100%</b>
<ul style="list-style-type: none"> <li>% Structures cleaned with vactor</li> </ul>	(%)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	<b>1</b>
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	<b>2+</b>
Qty. of sand/debris collected by sweeping	(lbs. or tons)	<b>&gt;800 tons</b>
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	<b>See (A) below</b>
Annual Sweeping Costs		<b>Not Determined</b>
	(Preferred Units)	Response
<ul style="list-style-type: none"> <li>Annual budget/expenditure (labor &amp; equipment)</li> </ul>	(\$)	<b>General Budget</b>
<ul style="list-style-type: none"> <li>Hourly or lane mile contract rate</li> </ul>	(\$/hr. or ln mi.)	<b>Not Determined</b>
<ul style="list-style-type: none"> <li>Disposal cost</li> </ul>	(\$)	<b>See (A) below</b>

Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	<b>1</b>
• Vacuum street sweepers owned/leased	(#)	<b>0</b>
• Vacuum street sweepers specified in contracts	(y/n)	<b>0</b>
• % Roads swept with rotary brush sweepers	%	<b>100%</b>
• % Roads swept with vacuum sweepers	%	<b>0%</b>

Reduction (since beginning of permit coverage) in application on public land of: (“N/A” = never used; “100%” = elimination)		
▪ Fertilizers	(lbs. or %)	<b>Unknown</b>
▪ Herbicides	(lbs. or %)	<b>Unknown</b>
▪ Pesticides	(lbs. or %)	<b>Unknown</b>
Integrated Pest Management (IPM) Practices Implemented	(y/n)	<b>Unknown</b>

Average Ratio of Anti-/De-Icing products used  (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	<b>100% Treated Salt for entire season</b>
Pre-wetting techniques utilized	(y/n or %)	<b>No</b>
Manual control spreaders used	(y/n or %)	<b>Yes</b>
Zero-velocity spreaders used	(y/n or %)	<b>Yes, 2 trucks</b>
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	<b>500#/ln mi</b>
Estimated net reduction or increase in typical year sand application rate	(±lbs/ln mi. or %)	<b>Phased out Sand</b>
% of salt/chemical pile(s) covered in storage shed(s)	(%)	<b>100%</b>
Storage shed(s) in design or under construction	(y/n or #)	<b>No</b>
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	<b>Yes</b>

### Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	

(A) The Town is working with MassDEP on the development of an Administrative Consent Order (ACO). This ACO will establish the time schedule for processing and removal/disposal of historic and newly generated DPW generated material. The DPW has asked for budget monies to handle newly generated material.