Municipality/Organization: Town of Billerica

EPA NPDES Permit Number: MA041182

Mass DEP Transmittal Number: W-040980

Annual Report Number Year 11

& Reporting Period: April 1, 2013 – March 31, 2014

NPDES PII Small MS4 General Permit Annual Report

(Due: May 1, 2014)

Part I. General Information

Contact Persor	n: Kelley Conway	Title: Town Engineer
Telephone #:	978-671-0955	Email: kconway@town.billerica.ma.us
Mailing Addre	ss: DPW – Engineering Divi	sion, 365 Boston Road, Billerica, MA 01821

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:	Jan Chin	
Printed Name:	John C. Curran	
Title:	Town Manager	
Date:	April 28, 2014	

Part II. Self-Assessment

The Town of Billerica has completed the required self-assessment and has determined that our municipality is in compliance with permit conditions.

During Permit Year 11 (April 1, 2013 through March 31, 2014), the Town of Billerica continued to implement its stormwater management plan. Selected BMPs and associated measurable goals continue to be appropriate. The Town will continue to implement BMPs as budget and staff time allows.

Billerica is part of a regional collaborative including the communities of Chelmsford, Dracut, Dunstable, Lowell, Pepperell, Tewksbury, Tyngsborough and Westford led by the Northern Middlesex Council of Governments (NMCOG). NMCOG has developed the Northern Middlesex Stormwater Collaborative (NMSC) through funding by the Massachusetts Executive Office for Administration and Finance's Community Innovation Challenge (CIC) Grant Program. The goal of the collaborative is to effectively manage stormwater by utilizing new approaches and resource sharing in order to keep costs at a minimum and improve the quality of service provided to residents. Seven (7) of the nine (9) communities are designated as MS4's by the EPA. The intent of the collaboration is to better address current and proposed stormwater management requirements. The NMSC received another CIC Grant for the amount of \$81,000 in February of 2014.

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
1.3.1 Revised	Partner with local organization	Engineering	Partner with one organization each year.	Town continued to partner with the Central Massachusetts Mosquito Control Project for stream cleaning, sediment removal, and mosquito control activities (see BMPs 2.3.6 and 6.3.8).	Continue to implement BMP as budget and staff time allows.
1.3.2 Revised	Public Education Materials	BOH & DPW	Stormwater brochures available at Town offices and booth at Health Fair	Town continued to make a variety of brochures and books available at various town offices including the Water Dept, Conservation, DPW, and BOH. The annual 2012 Water Quality Report distributed to all town residents and businesses contained stormwater information. Two stormwater bulletin boards at Town Hall continue to present stormwater information.	Continue display educational bulletin boards at Town Hall; to have educational brochures available at various Town offices and at the Annual Health Fair; to include stormwater information in the Water Quality Report that is distributed to annually.
1.3.3 Revised	Local schools education program	School Dept.	Present stormwater to two schools each year.	Wastewater Staff annually educate almost 100 classrooms in six elementary schools about water quality. Partnered with Woodard & Curran and the Ditson School to participate in World Water Monitoring Day on October 18, 2013, where students were educated about water quality and stormwater pollution, and students collected water quality information about Nutting Lake, an impaired waterbody in Town.	Continue classroom education and participation in World Water Monitoring Day.
1.3.4 Revised	Stormwater Web Page	Engineering	Develop stormwater web page update as needed.	The Town recently launched a new website and continued to maintain the Stormwater Management webpage at http://www.town.billerica.ma.us/214/Stormwater-Management . Town's MS4 Annual Report continued to be made available for viewing on DPW webpage.	Continue maintain stormwater information on the Town's website.

1.3.5	Cable Access TV Show	Engineering	No Goal(s) for Yr. 11. Prior goal: Select a stormwater program for viewing on BATV.	No planned activities for Permit Year 11. After The Storm and Think Green were both played on Billerica Access TV multiple times in prior permit years.	BMP Complete
1.3.6 Revised	Public Access GIS Tool	Engineering	Provide public access to maps of streams, rivers, storm drains and water quality data by Year 5.	Online access to several maps including the Stormwater System, Estimated Habitats, and Green Engineering Flood Plain continued to be provided through the DPW website at http://www.town.billerica.ma.us/208/Existing-Maps . Also, GIS mapping of drainage utilities is available at the Engineering Division.	Continue to maintain access to maps through the website and/or Engineering Division office.
1.4.1 Revised	Stormwater flyer to residents	SuAsCo & DPW	No Goal(s) for Yr. 11	Various town offices (Water Dept., Conservation, DPW, BOH) continued to make Stormwater Flyers available. Annual Water Quality Report is mailed to residents and contains stormwater information each year (See BMP 1.3.2)	Continue to implement BMP as budget and staff time allows.
1.4.2 Revised	Stormwater lesson plan	SuAsCo & DPW	No Goal(s) for Yr.	The School Department has a copy of the stormwater lesson plan available for the teachers to use. Wastewater Staff annually educate almost 100 classrooms in six elementary schools about water quality and stormwater pollution.	Continue to implement BMP as budget and staff time allows.
1.4.3	Media toolkit and stormwater PowerPoint program	SuAsCo & DPW	No Goal(s) for Yr. 11	No activities were planned for Permit Year 11.	BMP Complete
1.4.4	Business Flyer & Storm Drain Marking	SuAsCo & DPW	No Goal(s) for Yr. 11. Prior goal: Stormwater flyer to 50% of Town businesses	Stormwater Business Flyers are available at various offices around town (Water Dept, Conservation, DPW, BOH). Stormwater Flyers were mailed out in previous years. Storm drains had been marked in previous years (See BMP	BMP Complete. Continue to implement BMP as budget and staff time allows.
Revised				2.3.2).	
1.4.5 Revised	Stormwater Outreach Materials	SuAsCo & DPW	No Goal(s) for Yr.	Stormwater postcards distributed to different Town departments for handout and display (see BMPs 1.3.2 and 1.4.4). In prior years, pet waste postcards were distributed with new dog licenses.	BMP Complete

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
2.3.1	Partner / Support a Watershed Organization	Engineering	Partner with one local organization each year.	Northern Middlesex Stormwater Collaborative was formed and Town employees attended informational workshops. Board of Health Staff	Continue to implement BMP as budget and staff time allows.
				attended a stormwater management training seminar 10/15/2013.	
2.3.2 Revised	Storm drain stenciling program	Engineering	Develop & Implement drain marking program	In previous years, storm drain markers had been installed. Markers are a gluedown curbing marker that says "DON'T POLLUTE" and "DRAINS TO WATERWAYS".	Continue to implement BMP as budget and staff time allows.
2.3.3 Revised	Stormwater Public Meetings Program	Engineering	Discuss stormwater at one or more public meetings each year	Stormwater Management is discussed at Board of Health, Conservation Commission, and Planning Board meetings.	Continue to implement BMP as budget and staff time allows.
2.3.4 Revised	Substituted 2.3.7 in Permit Year 4	DPW	No Goal(s) for Yr. 11	N/A	N/A
2.3.5	Recreation Department Public Education Program	Engineering	Involve Recreation Department in stormwater public education program each year.	Recreation Dept has stormwater posters and postcards on display. Billerica Recreation continues to support the Take 5 Program encouraging residents to pick up trash in public areas and continually	Continue to implement BMP as budget and staff time allows.
Revised				educates the public about proper pet care. Pet Waste Stations are installed and maintained at most public parks throughout Billerica.	
2.3.6	Annual "Clean the Stream" program	Recreation	Recruit volunteers for each years' stormwater cleaning effort	Annual Town wide "Clean-up/ Green-up" event held on May 4, 2013. Contracted with the Commonwealth of	Working with Billerica Community Alliance for Clean- up/Green-up for May 3, 2014.

Revised				Massachusetts Middlesex Sheriffs Office for assistance with cleaning and preparations of parks, playgrounds, and beach. Contracted with Central Massachusetts Mosquito Control Project for restoration and maintenance of 2,930 feet of wetlands and ditches	
2.3.7	Develop Stormwater By-Law Advisory Group	Stormwater By- Law Working Group	No Goal(s) for Yr. 11	BMP Complete – By-law adopted.	BMP Complete
2.4.1	Stormwater traveling display	SuAsCo & DPW	No Goal(s) for Yr. 11	'Think Green' display received in Year 6 continues to be exhibited at the Town Hall.	BMP Complete. Continue to maintain the stormwater display and educational material. Make a
10 1300					display and informational material available for viewing and distribution at the 2014 Health Fair.
2.4.2 Revised	Stormwater poster contest	SuAsCo & DPW	No Goal(s) for Yr. 11	Year 3 product eliminated by SuAsCo	N/A
2.4.3	Stormwater photo contest	SuAsCo & DPW	No Goal(s) for Yr. 11	Year 3 product eliminated by SuAsCo	N/A
Revised	Ct	Con A o Con Po	No Cool(s) for Vo. 11	DMD Complete in Donneit Vent	PMD Complete
2.4.4 Revised	Stormwater summit special event	SuAsCo & DPW	No Goal(s) for Yr. 11	BMP Complete in Permit Year 5	BMP Complete
2.4.5	Stormwater super summit	SuAsCo & DPW	No Goal(s) for Yr. 11	BMP Complete in Permit Year 5	BMP Complete
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
3.4.1 Revised	Asset Management Program	Engineering	Implement stormwater Asset Management program.	No measurable goals planned for Year 11. Asset Management Program is in place to track public complaints, catch basin cleaning efforts, and drainage repairs.	BMP Complete. Continue to implement Asset Management Program.
3.4.2 Revised	Storm Drain Map	Engineering	Complete and update Town-wide GIS drainage map	Town has mapped all of the Town's outfalls and receiving waters in GIS. Mapping includes catch basins, manholes, and connectivity. Through its drainage system maintenance activities, Town continues to verify accuracy and completeness of drainage map and improve map.	Continue on going review of and updates to drain map.
3.4.3 Revised	TMDL, Critical Habitat, Historic Property	Engineering	Monitor changes in TMDL, Critical Habitat & Historic Site	No new TMDLs have been noted in Permit Year 11 for Billerica's receiving waters. There are no changes to the Town's General Permit eligibility under the ESA or National Historic Preservation Act.	BMP Complete. Continue to implement BMP as budget and staff time allows.
3.4.4 Revised	Stormwater By-Law	Board of Health	Implement approved Stormwater By-law.	The "By-law Governing Discharges to the Municipal Storm Sewer System" was adopted as Article XXVI in the Town's General By-laws and is implemented by the Board of Health. This by-law prohibits non-stormwater discharges and illegal dumping to the drainage system and includes enforcement procedures and actions.	BMP Complete. Continue to implement by-law.
3.4.5	Illicit Discharge Detection Program	DPW	Implement IDDE Program.	Town has implemented an IDDE Program. During the permit term, Town has inspected 100% of its outfalls during dry weather conditions. Town utilizes	Measurable goals met. Continue to implement BMP as budget and staff time allows.

Revised				written IDDE Protocol based on the Center for Watershed Protection Illicit Discharge Detection and Elimination – A Guide Manual for Program Development and Technical Assessments and EPA's Standard Operating Procedure (SOP) for	
				Surface Water Sampling. Through its drainage system maintenance activities, Town continues to inspect the drainage system.	
3.4.6 Revised	Illicit Discharge Elimination Program	Board of Health & DPW	Enforce illicit discharges by-law	The "By-law Governing Discharges to the Municipal Storm Sewer System" was adopted as Article XXVI in the Town's General By-laws. Continue to investigate possible illicit discharges, respond to public complaints, and take appropriate action.	Enforce the by-law by responding to public complaints and through ongoing illicit discharge detection activities by the DPW.
3.4.7	Resident education program	DPW	No Goal(s) for Yr. 11. Prior goal: Develop and distribute flyers defining illicit discharges and summarizing the Town Stormwater Regulations	No measurable goal for Permit Year 11. Measurable goal met in previous permit year when by-law was adopted. Town continues to maintain information about Article XXVI, the "By-law Governing Discharges to the Municipal Storm Sewer System" on the DPW website. In addition, information is available at the	BMP Complete. Continue updates to and maintenance of information provided on website. Continue to provide informational flyers
Revised				Board of Health.	

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
4.2.1	Regulatory Controls	Board of Health	Develop "Erosion & Sediment Control" by- law & enhance as appropriate.	Town adopted Article XXV, the "Stormwater Management Bylaw", which requires erosion and sediment controls at construction sites for projects that meet the scope and applicability of the by-law	BMP Complete. Continue to implement regulatory controls.
				and Wetland Protection By-law. No changes are necessary at this time.	
4.2.2	Review and site inspection procedures	Board of Health	Review new site plans against the by-law	Town's Stormwater Management By-law and Stormwater Management Regulations	Continue to implement BMP
Revised				contain construction site review and site inspection procedures. Town reviews plans that meet the scope and applicability of the by-law and inspections of projects are conducted. In Summer 2011, the Town completed development of numerous applications, inspection and certification forms to facilitate review and site inspections as part of the Stormwater Management Permit process. Town also developed methods to track Stormwater Management Permitting and long-term operation and maintenance.	
4.2.3	Enforcement procedures	Board of Health	Develop and implement enforcement procedures and sanctions for stormwater violators	Enforcement procedures and sanctions to ensure compliance with the By-law are included in the Stormwater Management By-law and in the Stormwater Management Regulations. These procedures and sanctions are	BMP Complete. Continue to implement enforcement procedures and sanctions as needed.
Revised		-		implemented and enforced by the Board of Health and Conservation Commission.	
4.2.4	Procedures for Handling Public Comments	DPW	Develop & implement public comment procedure	Town receives comments from the public via phone calls and through the new Town website. Town considers and	Continue to coordinate with other Departments to track and address comments from public.
Revised				addresses public comments.	

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
5.3.1 Revised	Structural stormwater controls	Planning Board	Revise subdivision rules and regulations with new BMP's	Planning Board continues the process of reviewing the subdivision rules and regulations to make them consistent with the Town's new stormwater by-laws and regulations and incorporate LID features into the regulations.	BMP Complete. Review and revised regulations as needed.
5.3.2 Revised	Local By-Laws	Stormwater By- Law Working Group	No Goal(s) for Yr. 11. Prior goal: Develop General By-Law	The Stormwater Management By-law was adopted as Article XXV in the Town's General By-laws. By-law and associated Stormwater Management Regulations require new-development and re-development projects to address post-construction stormwater management.	BMP Complete. Continue to implement By-law.
5.3.3 Revised	Planning Strategies	Engineering	No Goal(s) for Yr. 11. Prior goal: Review Current Town Master Plan	No activities planned for this Permit Year.	BMP Complete
5.3.4	Conditions for private stormwater systems	ВОН	Develop maintenance requirements for private stormwater systems	Article XXV, the Stormwater Management By-law and the Stormwater Management Regulations include operation and maintenance requirements for private stormwater systems. In	BMP Complete. Continue to enforce requirements.
Revised				Summer 2011, the Board of Health and Engineering completed development of forms and guidance to facilitate implementation of the Stormwater Management Permit, including development of a template for Inspection and Maintenance Agreements and an example Annual O&M Inspection Report.	
5.3.5 Revised	Stormwater infrastructure inspection program	Board of Health	Develop technology based inspection program	Continue to implement the asset management program to track BMP maintenance. (See BMP 3.4.1)	BMP Complete

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
6.3.1 Revised	Pollution Prevention Planning	Highway Dept.	Develop a Stormwater Pollution Prevention Plan	Town has developed a Stormwater Pollution Prevention Plan (SWPPP) for the Highway Facility. Continued with vehicle washing program for DPW.	BMP Complete. Continue to implement SWPPP activities.
6.3.2 Revised	Employee Training Program	DPW	Implement employee training program	Town continues to informally train employees on pollution prevention and good housekeeping practices for municipal operations.	BMP Complete. Continue to implement BMP.
6.3.3	Recycling Program	Highway Dept.	Monitor recycling program & enhance if necessary	Annual hazardous waste day was held on October 19, 2013. Town provided oil recycling program on monthly basis. The	BMP Complete.
Revised				"2013 Recycling and Trash Collection Guide" was distributed to residents and made available on the DPW website at www.billericadpw.org. Rain barrels and composters were again made available for Billerica residents to purchase in the spring.	
6.3.4	Catch Basin Cleaning Program	Highway Dept.	Clean catch basins each year and monitor pounds of sediment removed.	Catch basin cleaning was contracted out in 2013. The contractor cleaned 2,588 catch basins from May 2013 to July 2013. Highway performed routine inspections and rebuilt basins as needed. 133.6 tons of material was removed from the drainage system in Permit Year 11 and contractor disposed of material at a	Continue to clean catch basins each year as needed, and as budget allows.
Revised				regulated facility in accordance with MassDEP's Management of Catch Basin Cleanings.	

6.3.5 Revised	Street Sweeping Program	Highway Dept.	Sweep streets each year and monitor pounds of sediment removed.	Town roadways were swept from April 2013 through November 2013. Highway Division monitored sediment removed. In Permit Year 11, approximately 662 cubic yards or approximately 893 tons of material was removed from streets throughout Town. Republic Services and Waste Management were paid to appropriately dispose of sweepings.	Continue to sweep streets as needed
6.3.6 Revised	Operations and Maintenance	DPW	Inventory ongoing stormwater maintenance activities	Municipal facilities and associated stormwater maintenance activities were inventoried as part of development of SWPPP. Facilities include DPW (Engineering, Highway, Cemetery, Parks, Trees, Water and wastewater), Recreation, Police, Fire, and School Departments. SWPPP details stormwater pollutants and potential impacts to waterbodies, and local water quality impairments. SWPPP also lists Best Management Practices for: Road Sand/Salt Application & Storage; Snow Stockpiling & Removal; Materials Management; Hazardous Material Storage; Vehicle Fueling, Maintenance & Storage; Vehicle Washing; Spill Prevention & Response; Lawn and Grounds Maintenance; Street & Parking Lot Sweeping; Catch Basin Cleaning; Stormwater Line Maintenance; Pet Waste & Litter; and Mosquito Control. Town continued to implement SWPPP as needed.	BMP Complete
6.3.7 Revised	Reporting	DPW	Continue to track stormwater management activities & submit annual report	Town tracked stormwater management activities and submitted annual report.	BMP Complete

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 9	Interim Period
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
	Mosquito Control	Engineering	Record of improved	Town continued drainage system	BMP Complete. Continue to
6.3.8	Project & Drainage		drainage system	maintenance through the efforts of the	implement BMP as budget and
	System Maintenance		inspection and	Central Massachusetts Mosquito Control	staff time allows.
			maintenance.	Project. Brush and other accumulated	
Revised				debris were removed from culverts and	
				streams. Efforts also included insertion	
				of larvacides in Town catch basins.	

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

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 11	Interim Period
		Name		(Reliance on non-municipal partners	
				indicated, if any)	
	Monitor Current	DPW	Continue to	In prior permit years, the Town reviewed	BMP Complete. Continue to
7.2.1	Impairment Lists		monitor TMDL	the Bacteria TMDL for Shawsheen River	monitor changes to TMDLs and
			studies annually and	Basin and the Draft Pathogen TMDL for	impairments.
			develop programs as	the Concord River Watershed and created	
			appropriate.	a plan to address TMDL	
Revised				recommendations. In Permit Year 11, the	
				Town reviewed MassDEP's website for	
				updates to TMDLs and reviewed the	
				Massachusetts Year 2012 Integrated List	
				of Waters for updates to list of	
				impairments in Town. No additional	
				TMDLs for waterbodies in Billerica have	
				been noted. See the WLA Assessment	
				provided below for details on BMPs	
				being implemented to address the	
				Shawsheen River Bacteria TMDL.	

7b. WLA Assessment

Billerica's MS4 discharges into the Shawsheen River, which has an approved Final TMDL for Bacteria. Because the TMDL is for a pollutant likely to be found in stormwater discharges from Billerica's MS4, their Stormwater Management Program includes BMPs that address the waste load allocation (WLA) from point sources that include illicit connections to the drainage system and urban stormwater runoff. Billerica is making steady progress towards meeting the Shawsheen River Fecal Coliform WLAs through implementation of a number of existing stormwater control measures, as reported in the above Annual Report, that address pollutants of concern in water quality impaired waters.

To address Illicit Sewer Connections WLA, the Town has implemented the following BMPs under the Illicit Discharge Detection and Elimination Minimum Control Measure:

- Asset Management Program including improvements in Billerica's public complaint response and tracking (BMP 3.4.1);
- Storm Drain Mapping (BMP 3.4.2);
- Stormwater By-law that addresses illicit discharges and illegal dumping, adopted at the October 2007 Town Meeting (BMP 3.4.4);
- Illicit Discharge Detection Program, which is ongoing (BMP 3.4.5);
- Illicit Discharge Elimination Program, now enforceable by the Board of Health through the new stormwater by-law (BMP 3.4.6); and
- Resident Education (BMP 3.4.7).

To address the Urban Stormwater Runoff WLA, the Town has implemented the following BMPs in the Stormwater Management Program:

- Construction Site Runoff Control through Billerica's Stormwater Management Bylaw, adopted at the October 2007 Town Meeting (BMPs 4.2.1, 4.2.2 and 4.2.3);
- Post-construction Stormwater Management through Billerica's Stormwater Management Bylaw (BMPs 5.3.2 and 5.3.4); and
- Catch Basin Cleaning and Street Sweeping Programs to keep debris from filling catch basins and maintain proper drainage system function (BMPs 6.3.4 and 6.3.5).

In addition, Billerica has a leash law with "pooper-scooper" provisions in General By-laws, Article VII, Section 2 - Regulation of Dogs, and pet stations for proper pet waste disposal. Postcards concerning proper disposal of pet waste had been distributed with new dog licenses in prior years. The Board of Health regulates the design, construction, and inspection of septic systems and leach fields. The Town recently updated their Comprehensive Wastewater Management Plan (CWMP), and has continued to repair existing sewer infrastructure to reduce sewer line leaks and pump station overflows.

The Pathogen TMDL for the Concord River Watershed is still draft and has not been approved. The Town does not plan to add any additional BMPs to meet TMDL requirements at this time. Billerica's plan to meet watershed specific TMDL requirements is described in detail in the March 2008 memorandum entitled, *Best Management Practices to Address Shawsheen and Concord River TMDLs*, on file at the Engineering Office.

Part IV. Summary of Information Collected and Analyzed

N/A

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, 2013 through March 31, 2014)

Programmatic

Response

Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures **	(Preferres) Units)	\$ 115,557.90
Total program expenditures since beginning of permit coverage	(\$)	\$ 1,668,119.23
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Town Meeting
		Appropriation,
		Operational
		Budget and
		General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)		(# or %)	100%
Stormwater management committee established		(y/n)	Yes
Stream teams established or supported		(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned *	*	(y/n or mi.)	0.55 mi
Shoreline cleaned since beginning of permit coverage		(mi.)	9.32 mi
Household Hazardous Waste Collection Days			
 days sponsored ** 		(#)	12
community participation **		(# or %)	446 Ea.
material collected **	Oil	(tons or gal)	1,034 gal
	Flammables		3.44 tons
	Oxidizers		0.21 tons
	Pesticides		0.80 tons
	Corrosives		0.31 tons
			4.14 tons
	Other Mercury		0.005 tons
	Asbestos		0.005 tons

Legal/Regulatory

	In Place	Reviewing		
	Prior to	Existing		
	Phase II	Authorities	Drafted Draf Review	
Regulatory Mechanism Status (indicate with "X")			Draring	
■ Illicit Discharge Detection & Elimination				Adopted X
Erosion & Sediment Control				X
■ Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")	·			·
Illicit Discharge Detection & Elimination				N/A
■ Erosion & Sediment Control				X
■ Post-Development Stormwater Management				X

Mapping and Illicit Discharges

Response

	110000
(%)	100
eferre#)Units)	467
(%)	84
(%)	
(%)	
(%)	100
(# or %)	0
(# or %)	100%
(#)	0
(#)	0
(#); and	0
(est. gpd)	
(#); and	0
(est. gpd)	
(%)	76
(%)	24
·	(%) (%) (%) (%) (%) (# or %) (# or %) (#) (#); and (est. gpd) (#); and (est. gpd) (%)

Construction

Response

Number of construction starts (>1-acre) **	(#)	2
Estimated percentage of construction starts adequately regulated for erosion and sediment control (Parefe	rred ₎ Units)	100%
Site inspections completed **	(# or %)	100%
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	3

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-		100 %
construction stormwater control		
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100 %
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)	0.65 / year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	0.65 / year
Qty of structures cleaned **	(#)	2,588
Qty. of storm drain cleaned **	(%, LF or	
	mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	133.59 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Eliot, Me.
		landfill

Basin Cleaning Costs		
 Annual budget/expenditure (labor & equipment)** 	(\$)	\$74,806.40
Hourly or per basin contract rate **	(\$/hr or \$	\$26.21 / basin
	per basin)	
• Disposal cost**	(\$)	Included in
		above
		expense
Cleaning Equipment		
Clam shell truck(s) owned/leased	(#)	2
Vacuum truck(s) owned/leased	(#)	1
Vacuum trucks specified in contracts	(y/n)	No
% Structures cleaned with clam shells **	(%)	
% Structures cleaned with vactor **	(%)	

Response

	response
(times/yr)	1
erred Units) (filmes/yr)	2-3
(lbs. or tons)	Approximately
	893 tons
(location)	RCI Fitchburg
	Landfill
(\$)	
(\$/hr. or	n/a
ln mi.)	
(\$)	n/a
(#)	3
(#)	0
(y/n)	No
%	100
%	0
	(lbs. or tons) (location) (\$) (\$/hr. or ln mi.) (\$) (#) (#) (y/n)

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

Response

			Response
Average Ratio of Anti-/De-Icing products used **	(Prefe	% NaCl rred Units) % CaCl ₂	99%
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		% MgCl ₂	0
(,,,,,,,,		% CMA	0
		% Kac	0
		% KCl	0
		% Sand	1.0%
Pre-wetting techniques utilized **		(y/n or %)	No
Manual control spreaders used **		(y/n or %)	No
Zero-velocity spreaders used **		(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate		(±lbs/ln mi. or %)	n/a
Estimated net reduction or increase in typical year sand application rate **		(±lbs/ln mi.	n/a
% of salt/chemical pile(s) covered in storage shed(s)		or %) (%)	100
Storage shed(s) in design or under construction		(y/n or #)	No (In place)
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	No
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	No

