



COMPREHENSIVE  
ENVIRONMENTAL  
INCORPORATED

April 29, 2014

Glenda Velez – CIP  
US EPA Region 1  
5 Post Office Square, OEP06-01  
Boston, MA 02109-3912

**Re: NPDES Stormwater General Permit  
2013-2014 Annual Report, Town of Millville, MA**

Dear Ms. Velez:

Enclosed for your records is the NPDES Stormwater General Permit 2013-2014 (Year 11) Annual Report for the Town of Millville, MA. The Annual Report has simultaneously been filed with the Massachusetts Department of Environmental Protection (MADEP).

If you have any questions or require any additional information, please do not hesitate to call me at (800) 725-2550 ext. 303.

Sincerely,

Comprehensive Environmental, Inc.

Nick Cristofori, P.E.  
Project Engineer

cc: Massachusetts Department of Environmental Protection, Boston Office

Enclosure – NPDES Phase II Small MS4 General Permit 2013-2014 Annual Report

- Engineering
- Design
- Construction
- Inspection

Responsive  
service,  
cost-effective  
solutions,  
technical  
excellence

- Drainage & Flooding
- Energy & Sustainability
- Hazardous Waste
- Permitting & NEPA
- Stormwater & LID
- Transportation
- Water & Wastewater
- Watershed Restoration

**Municipality/Organization:** Town of Millville

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**EPA NPDES Permit Number:** MAR041138

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**MaDEP Transmittal Number:** W-063418

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**Annual Report Number  
& Reporting Period:** No. 11: May 1, 2013 - April 30, 2014

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Helen Coffin Title: Executive Secretary

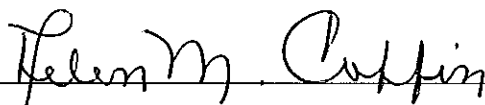
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Telephone #: (508) 883-1186 Email: [execsec@millvillema.org](mailto:execsec@millvillema.org)

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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: Helen Coffin

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Title: Executive Secretary

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Date: April 28, 2014

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

The Town of Millville received confirmation for coverage under the General Permit for its Municipal Separate Storm Sewer System (MS4) on May 10, 2003. In accordance with the NPDES Phase II Stormwater requirements, Millville has completed the required annual self-assessment compliance review for its Phase II Stormwater Program. The following topics were evaluated for the completion of the Annual Report:

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program's Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

The Town continued its work on public education by providing a number of informational flyers at several public locations in town, and providing them for download on the Town's website. Educational materials mostly target residences, as the Town is almost exclusively residential in nature. The Town also provides information in newspaper articles and through the local cable access channel, much of which promotes public participation events such as the annual roadside cleanup events in conjunction with Earth Day. For this event, volunteers spread out throughout the town and clean up Town streets and walking paths. The Town also periodically coordinates with the Blackstone River Watershed Association (BRWA) for public participation opportunities, such as the Earth Day Shoreline Cleanup and annual canoe and kayak race down the Blackstone River. Millville also created a dedicated stormwater webpage as part of the Highway Department site to provide general information, as well as downloadable information.

To date, the Town has mapped 78 outfalls using GIS software, representing all known outfalls as of 2007, as well as all known catch basins, manholes and pipes. Since then, the Town has acquired as-built plans showing new stormwater structures. Also during 2007, the Town inspected outfalls for dry weather flows, possibly indicating an illicit discharge. Dry weather flows were traced upstream to natural sources such as wetlands, and no illicit discharges were found.

The Town has adopted a Stormwater Management Bylaw, requiring projects disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The Planning Board routinely uses the Massachusetts Stormwater Handbook when reviewing and approving projects. The Town also requires that erosion controls are in place and good design techniques be employed, such as maintaining post development flows at predevelopment levels. Finally, Town departments routinely inspect construction projects to ensure erosion controls are in place and stormwater structures are functioning properly. Any complaints received by the public are addressed.

The Highway Department hires an outside contractor to conduct street sweeping every spring after winter sanding operations are complete, and catch basin cleaning every September. Catch basins prone to excess sediment, such as those at the bottom of a hill or heavily sanded area are cleaned more frequently as needed. Sediment and other materials are removed from the system and properly disposed of. The Town also accepts mercury-containing items such as fluorescent bulbs, thermostats, etc. Items are stored in a shed behind the Town Hall until collection by an authorized waste transfer company for disposal.

### 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 – Next Permit Term
1.1	Material Distribution	Conservation Commission	Distribute yearly mailing	Stormwater educational materials are displayed and made available at the Town Hall, Senior Center, and Library. Educational materials consisted of four different types of flyers targeting typical residential topics, such as car washing, fertilizer and pesticide applications, proper disposal of pet wastes, preventing illegal dumping, illicit discharges, and safe storage of household hazardous wastes (HHWs). Industrial and commercial targets will be implemented if necessary; however current development is largely residential in nature.	Continue to provide educational materials for residents at public places. Include stormwater brochures with mass mailings, such as tax bills. Explore the possibility of including a brochure on proper pet waste disposal with pet registration reminders. Track the number of brochures distributed to residents.
Revised	Distribute Educational Materials	Highway Department	Distribute and display educational materials to Millville households		
1.2	Work with the Blackstone River Watershed Association	Board of Health, Conservation Commission	Coordinate with the Blackstone River Watershed Association	The Town coordinated with the Blackstone River Watershed Association on potential projects requiring stormwater management during permit years 1 through 5. No direct coordination has occurred during recent years. Residents may still participate in the BRWA public events as outlined in BMP 2.1.	Coordinate with the Blackstone River Watershed Association as necessary. It is anticipated that coordination will continue once the new Phase II permit is released.
Revised					

**1a. Additions.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
1.3	Attend meetings	All Town Departments and Boards	Coordinate on stormwater-related issues	Town departments and boards, such as the Highway Department, Planning Board, Conservation Commission, and Board of Health coordinate on stormwater-related issues, as well as potential illicit discharges such as failed septic systems. Work to date has also included the establishment of bylaws discussed in BMPs 3.2, 4.1 and 5.1 and establishment of the Stormwater Management Permit through the Planning Board. Meetings are held as necessary.	Continue to coordinate between Town departments and attend meetings as necessary. Coordinate on the upcoming Phase II permit once finalized.
Revised		Meet with other departments and boards as necessary to coordinate on stormwater-related issues			
1.4	Create Dedicated Stormwater Website	Highway Department	Website with information on stormwater	The Town created a dedicated Stormwater Information page as part of the Highway Department website. The page provides information on what stormwater is, as well as proper stormwater management and water quality improvements. Millville’s webpage also provides 3 brochures for download as outlined in BMP 1.1.	Continue to maintain the stormwater website and provide informational brochures for download. Periodically update the webpage with additional information, links to outside information, and post information on upcoming public participation opportunities such as the roadside cleanup discussed in BMP 2.4. Track website hits if possible.
Revised					
1.5	Utilize the Public Access Cable Channel to Distribute Stormwater Information	Highway Department	Advertisements of upcoming public participation events and providing stormwater public information	The Town advertised the Earth Day roadside cleanup activity on the local public access channel in advance of the May 4, 2013 event as outlined in BMP 2.4.	Continue to advertise the roadside cleanup event. Explore the use of informational videos, such as EPA’s “After the Storm” video.
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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
1.6	Publish Stormwater-Related Newspaper Articles	Highway Department	Advertisements of upcoming public participation events and providing stormwater public information	Advertisements were posted in The Woonsocket Call in advance of the event as outlined in BMP 2.4. HHW disposal opportunities as outlined in BMP 3.6 were also advertised via the same avenues.	Continue to advertise the roadside cleanup and HHW disposal opportunities. Publish follow-up articles discussing event success to thank volunteers and encourage future participation.
Revised					

## 2. Public Involvement and Participation

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
2.1	Public Involvement	Board of Health, Conservation Commission	Organize an annual canoe trip to inspect outfalls	The BRWA hosts an annual Earth Day Shoreline Cleanup, most recently on April 27, 2014, that targets towns within the Blackstone River watershed.	Continue to encourage resident participation in the Earth Day Shoreline Cleanup and canoe and kayak races.
Revised			Encourage public participation in BRWA events	The BRWA also hosts an annual Canoe and Kayak Race every May. Volunteers are encouraged to participate in these events as a way to enjoy the outdoors.	
2.2	Municipal Roads	Conservation Commission	Storm drain stenciling	Highway Department employees stenciled all catch basins which discharge to rivers and streams with a “No Dumping” label prior to Permit Year 7. Town employees inspect the storm drain system during routine operations to see if re-stenciling was required. Fading labels were identified and repainted when necessary.	Stencil new and/or repaved streets as budget and time allow. Use volunteers, such as Eagle Scout projects if possible.
Revised	Stencil Catch Basins		Stencil all catch basins that discharge to the Blackstone River		
2.3	Watershed Organizations	Stormwater team	Coordinate with the Blackstone River Watershed Association	The Town coordinated with the Blackstone River Watershed Association on potential projects requiring stormwater management during permit years 1 through 5. No direct coordination has occurred during recent years, however public participation events as described in BMP 2.1 continue.	Coordinate with the Blackstone River Watershed Association as necessary. Explore the use of BRWA publications. It is anticipated that coordination will continue once the new Phase II permit is released.
Revised		Conservation Commission			

**2a. Additions.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
2.4	Earth Day Roadside Cleanup	Highway Department	Annual roadside cleanup and amount of trash and material collected	The Town held its annual roadside cleanup on May 4, 2013 in coordination with Earth Day. Residents and community volunteer groups such as the Boy Scouts were invited to participate. Volunteers met with Town employees at the Town Hall and were given a segment of roadways to target during cleanup efforts. Volunteers typically clean up all Town streets, as well as walking paths. Volunteers collected approximately 20 cubic yards of trash during the 2013 event. The Town advertised the event via newspaper advertisements and the local cable access channel as discussed in BMPs 1.5 and 1.6.	Hold an annual Earth Day roadside cleanup event, currently scheduled for May 3, 2014. Continue to advertise the event through current media channels.
Revised			Host an annual roadside cleanup event and track the amount of material collected		



### 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 – Next Permit Term
3.1 Revised	Stormwater System Mapping	Highway Department	Map outfalls, catch basins, etc. Map outfalls, pipes, manholes and catch basins	The Town mapped a total of 78 outfalls during 2007, representing all known outfalls at that time. Catch basins, manholes, pipes, etc. were also mapped. The Town also has a number of as-built plans documenting new stormwater structures installed since then.	No new field mapping efforts are planned at this time. Update the existing outfall map to show newly installed outfalls, previously unknown outfalls, etc. as time and budget allow.
3.2 Revised	Regulatory Mechanism	Board of Health	Develop and implement ordinance Develop and implement bylaw	The Town discussed revising its existing Stormwater Management Bylaw and accompanying regulations to prohibit illicit discharges from stormwater. A draft bylaw is currently under review, and will either be incorporated into an existing bylaw or as a standalone document.	Continue to work towards an updated bylaw to prohibit non-stormwater discharges from the MS4.
3.3 Revised	Illicit Discharge Plan	Highway Department, Board of Health	Develop illicit discharge plan Develop Illicit Discharge Detection and Elimination (IDDE) and plan	The Board of Health responds to any public complaints of suspected illicit discharges such as failed septic systems, illegal dumping, etc. Highway Department employees inspect outfalls as part of routine operations and document any evidence that may reveal an illicit discharge could be present. Should anything suspect be uncovered, the Board of Health is contacted for follow-up. Procedures for documenting information submitted by the public are outlined under BMP 4.4.	Continue to document any suspected illicit discharges or complaints received by the public. Follow up on all complaints and document the outcome. Continue to inspect outfalls during routine operations.
3.4 Revised	Post Removal Evaluation	Board of Health	Report on post removals Report on illicit discharge removals	The Board of Health is prepared to report on any illicit discharges discovered or eliminated in a given year as outlined in BMP 3.3. No illicit discharges have been detected to date.	Post follow-up reports on any illicit discharges found.

**3a. Additions.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
3.5	Conduct Outfall Inspections	Highway Department	Locate and evaluate possible illicit discharges	The Town inspected all known stormwater outfalls in 2007 during dry weather while conducting the mapping efforts described under BMP 3.1. Follow-up outfall inspections were again conducted in October 2011 along the Blackstone River. Any dry weather flows present were traced upstream to ascertain if a natural or man-made source was likely. All dry weather flows encountered were traced to natural sources such as wetlands, and no illicit discharges were suspected. Highway employees perform ongoing dry weather monitoring during routine operations.	Continue periodic outfall inspections as part of routine operations, and follow up on any suspected problem areas. Document all results.
Revised			Locate, evaluate, and remove any illicit discharges found		
3.6	Household Hazardous Waste Event	Highway Department	Provide an opportunity for residents to dispose of household hazardous wastes	The Town accepts mercury-containing items such as fluorescent bulbs, thermostats, etc. Items are stored in a shed behind the Town Hall until collection by an authorized waste transfer company for disposal.	Continue accepting mercury-containing devices at the Town Hall. Contact nearby towns and explore the possibility of cooperating on a Household Hazardous Waste event at least once a year. The event should allow residents to dispose of items such as old oil-based paint, household chemicals, waste oil, etc.
Revised					

#### 4. Construction Site Stormwater Runoff Control

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
4.1 Revised	Regulatory Mechanism	Planning Board	Develop / implement ordinance Develop and implement bylaw	The Planning Board developed a “Stormwater Management Bylaw” requiring any project disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The bylaw was adopted by the Town prior to the conclusion of Permit Year 5.	Continue to enforce the Stormwater Management Bylaw by requiring projects disturbing one or more acres to obtain a Stormwater Management Permit.
4.2 Revised	Site Plan Review Procedures	Planning Board	Preconstruction review of stormwater pollution prevention plan (SWPPP) Review site designs and applications as required under local bylaws	During permit review, the Planning Board utilizes the Massachusetts Storm Water Management Policy and Massachusetts Stormwater Handbook as a guideline for reviewing and approving projects. Erosion and sediment controls are required to be in place during construction activities by the Conservation Commission. Plan reviews were conducted as required throughout Permit Year 11.	Continue to require erosion and sediment controls to be in place during construction activities.
4.3 Revised	Site Inspection and Enforcement	Planning Board and Conservation Commission	Conduct construction site inspections Inspect all construction sites for proper stormwater management	Construction site inspections were conducted by the Planning Board and/or Conservation Commission as required throughout Permit Year 11 along with BMP 5.3. Highway Department personnel also periodically inspect projects during routine operations. Site inspections typically look for items such as proper stormwater management techniques and well-maintained erosion and sediment controls.	Continue to inspect construction projects to ensure adequate erosion and sediment BMPs are in place.

**4a. Additions.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
4.4	Establish a Procedure for the Receipt of Information Submitted by the Public	Highway Dept., Planning Board, Conservation Commission, Board of Health	Call log of public complaints and follow-up actions taken	In the event of a complaint, residents contact the Town Hall and are directed to the appropriate department or board for follow-up action. The majority of stormwater-related complaints, such as flooding, are addressed by the Highway Department. Other complaints such as suspected illicit discharges are directed to the Board of Health. Town contact information is posted online and advertised in flyers, tax bills, etc. Complaints are addressed by the appropriate department as necessary.	Continue to address any calls or complaints received from the general public. Document and follow-up on any calls or complaints received.
Revised					

## 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 – Next Permit Term
5.1 Revised	Regulatory Mechanism	Planning Board	Develop / implement ordinance Develop and implement bylaw	The Planning Board developed a “Stormwater Management Bylaw” requiring any project disturbing one or more acres to obtain a Stormwater Management Permit through the Planning Board. The bylaw was adopted by the Town prior to the conclusion of Permit Year 5.	Continue to enforce the Stormwater Management Bylaw by requiring projects disturbing one or more acres to obtain a Stormwater Management Permit.
5.2 Revised	Review BMP Designs	Planning Board	Preconstruction review Preconstruction review of all applicable design projects	During permit review, the Planning Board utilizes the Massachusetts Storm Water Management Policy and Massachusetts Stormwater Handbook as a guideline for reviewing and approving projects. At a minimum, new development and redevelopment projects must maintain post-development stormwater flows at predevelopment levels. Plan reviews were conducted as required throughout Permit Year 11.	Continue to review stormwater projects and require designs to conform to the Massachusetts Stormwater Handbook.
5.3 Revised	Site Inspection and Enforcement	Planning Board	Construction site inspections Inspect all construction sites for proper stormwater management	Construction site inspections were conducted by the Planning Board and/or Conservation Commission as required throughout Permit Year 11 along with BMP 4.3. Highway Department personnel also periodically inspect projects during routine operations. Site inspections typically look for items such as proper stormwater management techniques, as well as proper construction according to the approved plans.	Continue to inspect construction projects to ensure stormwater BMPs are in place and functioning properly.

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
5.4	Operation and Maintenance Procedures	Highway Department	Develop operation and maintenance procedures for BMPs	The Highway Department hires an outside contractor to conduct catch basin cleaning and street sweeping annually, and perform BMP maintenance as needed. Sediment and other materials removed from the system are sampled as required, and properly disposed of, typically at a landfill facility. BMPs 6.2, 6.4, and 6.5 describe additional stormwater system maintenance activities.	Continue to clean out stormwater system structures as needed. Work on tracking quantities of sediment removed during operation and maintenance activities.
Revised			Track quantities of sediment removed during O&M procedures		

**5a. No additions at this time.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
6.1	Employee Training Program	Stormwater Management Team	Spill reporting / response	Select Town personnel attend an annual stormwater seminar to obtain the latest information on stormwater related to municipal highway departments. Topics covered typically involve the current and upcoming Phase II permit, proper maintenance procedures, pollution prevention techniques, etc. The Highway Surveyor also conducts informal pollution prevention and illicit discharge detection training as part of routine Highway Department operation meetings.	Continue training of town employees, particularly Highway Surveyor and Highway Department employees for proper stormwater operations and maintenance procedures.
Revised		Highway Department	Conduct stormwater pollution prevention training		
6.2	Stormwater System Operation and Maintenance	Highway Department	System inspection program	The Highway Department hires an outside contractor to conduct catch basin cleaning. All catch basins in town are cleaned at least once annually, with those subject to heavy accumulation cleaned more frequently. A total of 183 catch basins were cleaned during Permit Year 11. Highway Department workers are also familiar with catch basins prone to excess sediment accumulation. These basins are inspected during routine operations, particularly after winter sanding operations are completed, to ensure proper function.	Continue to clean all catch basins on an annual basis and clean priority basins prone to excessive sediment accumulation more often as required. Continue to inspect catch basins during routine operations. Explore the feasibility of performing written inspections and documenting catch basin sediment accumulation.
Revised	Catch Basin Cleaning		Clean town-owned catch basins annually		

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
6.3	Parks and Open Space	Parks Department	Application controls	The Veterans Park is the only area in town that is fertilized, typically three times per year. The service is provided through a contracted lawn service. The Town formalized an application reporting procedure for pesticides and fertilizers.	Continue to hire an outside lawn care service to fertilize Veterans Park. Discuss ways to reduce or eliminate fertilizers and pesticide applications.
Revised		Highway Department, Parks and Recreation Department			
6.4	Municipal Roads	Highway Department	Street sweeping	The Highway Department hires an outside contractor to conduct street sweepings every spring after winter sanding operations are complete. Sweeping was performed during April 2014.	Continue to hire a contractor to perform street sweeping annually in the spring. Document volumes of sweeping materials obtained during cleaning operations.
Revised	Street Sweeping		Conduct street sweeping annually		

**6a. Additions.**

<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 11</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
6.5	Stormwater BMP Cleaning	Highway Department	Clean town-owned stormwater BMPs	The Highway Department hired an outside contractor to clean detention and retention basins during the October 2013. Approximately 15 BMPs were cleaned by an outside cleaning company.	Continue cleaning stormwater BMPs as needed.
Revised					



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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
Revised					

**7b. WLA Assessment**

The MADEP final 2012 303(d) Integrated List of Waters outlines two segments of the Blackstone River (MA51-05 and MA51-06) in the Town of Millville that are classified as Category 5 “Waters Requiring a TMDL”. Segments are impaired as follows:

- MA51-05 other flow regime alterations, aquatic macroinvertebrate bioassessments, cadmium, copper, Escherichia coli, excess algal growth, lead, nutrient/eutrophication biological indicators, total phosphorus, polychlorinated biphenyls (PCBs), taste and odor, total suspended solids, and turbidity.
- MA51-06 other flow regime alterations, cadmium, copper, DDT, lead, PCB in fish tissue, and total phosphorus.

A Draft Pathogen TMDL for the Blackstone River Watershed has been completed for the above-referenced waterbody segments and lists municipal point sources and urban runoff as potential sources of bacteria. Water quality concerns associated with 303d waters are addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit and release of final TMDLs for the above pollutants. The draft 2012 303(d) Integrated List of Waters does not indicate any changes from the final 2010 List.

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

Millville has completed a map of all stormwater structures, including catch basins, manholes, culverts and outfalls. Approximately 78 outfalls have been mapped, with several more located via as-built plans or similar mapping methodology. Structure locations were recorded using GPS software and imported into a base map depicting all locations within Town limits. An illicit discharge inspection program was completed during 2007 for outfalls within the Urbanized Area, and no illicit connections were found.

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

**Programmatic**

Stormwater management position created/staffed	(y/n)	No
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)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	0
▪ community participation	(%)	N/A
▪ material collected	(tons or gal)	N/A
School curricula implemented	(y/n)	No

**Legal/Regulatory**

	In Place Prior to Phase II	Under Review	Drafted	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				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

**Mapping and Illicit Discharges**

Outfall mapping complete	(%)	100%
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Estimated or actual number of outfalls	(#)	~78
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	N/A
% of population on sewer	(%)	0
% of population on septic systems	(%)	100%

### Construction

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

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	

## Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	100%/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	183
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.)		Landfill
Cost of screenings disposal	(\$)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1
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 % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % 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)	