

**Municipality/Organization:** Pembroke, MA

**EPA NPDES Permit Number:** MAR041054

**MassDEP Transmittal Number:** W-035403

**Annual Report Number**

**& Reporting Period:** Year 9: April 1, 2011 – March 31, 2012

**NPDES PII Small MS4 General Permit  
Annual Report  
(Due: May 1, 2012)**

**Part I. General Information**

**Contact Person:** Eugene B. Fulmine Jr.

**Title:** DPW Director

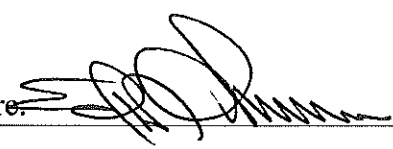
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Certification:

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:** 

**Printed Name:** Edwin J. Thorne

**Title:** Town Administrator

**Date:** April 25, 2012

**Part II. Self-Assessment**

The Town of Pembroke has completed the required self-assessment and has determined that our municipality is generally in compliance with the conditions of the permit. See Part III for status of BMPs.

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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
1a Revised	Air stormwater messages on local cable channel	Department of Public Works	Air a message every two weeks	Stormwater messages were developed and have been aired on the local cable access channel. During Permit Year 9, stormwater messages were aired on the local cable access channel on a daily basis with a new stormwater message each month.	Continue to air stormwater messages on the local cable access channel.
1b Revised	Distribute/post non-point source pollution posters	Department of Public Works	Post in all schools and town-owned buildings	The Town checked and confirmed that non-point source pollution posters were still displayed in town buildings during Permit Year 9.	Continue to display non point source pollution posters in town buildings.
1c Revised	Include stormwater info in Consumer Confidence Report	Department of Public Works	Distribute Consumer Confidence Report yearly to all residents	The Town included information on stormwater pollution prevention in its 2011 Consumer Confidence Report, which is distributed annually to all residents. Several of the water bodies in town are drinking water sources for surrounding towns, and preventing pollution discharges from stormwater outfalls is necessary to keep these sources clean. The Town also included information on stormwater pollution prevention in their greenscapes program flyers.	Continue to include information on stormwater pollution prevention in the Town's Consumer Confidence Report which is distributed annually to residents.
1d Revised	Develop children's coloring book on Pembroke recycling	Board of Health	Distribute coloring books outside of Board of Health office	The Town has developed an informative coloring book to educate children on the importance of recycling, which was made available outside the Board of Health office during Permit Year 9.	Continue to make the coloring book on recycling available outside the Board of Health office.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
2a Revised	Form Storm Water Advisory Committee	Department of Public Works	Hold quarterly meetings	During Permit Year 9, the Town held bi-weekly DPW Commissioner Meetings on the first and third Mondays of the month where drainage issues are discussed. The Town is currently working to expand their existing Drainage Commission, and they were able to add one new homeowner to the Commission this past year.	Continue to hold bi-weekly DPW Commissioner Meetings and work to expand the existing Drainage Commission.
2b Revised	Collect household hazardous waste from residents	Board of Health	Hold household hazardous waste collection day once per year The Town is holding their Household Hazardous Waste Collection Day in August as opposed to the spring as previously indicated.	During Year 9, on September 11 <sup>th</sup> , 2011, the Town held their annual household hazardous waste collection day. It was announced in the local press, on cable and at BOH and Selectmen meetings.	Continue to hold a Household Hazardous Waste Collection Day annually.
2c Revised	Implement annual, volunteer waterways clean-up day	Department of Public Works	Hold waterways clean-up day once per year beginning in the Spring of 2005 (Permit Year 3)	During Year 9, the Town held its annual, volunteer waterways clean-up day on May 21, 2011.	Continue to hold a volunteer waterways clean-up day annually.
2d Revised	Make SWMP available for public comment/review	Department of Public Works	Post SWMP in DPW office and Town library	Throughout Permit Year 9, copies of the Town's Stormwater Management Plan were made available for public review and comment at the Town Library and at the DPW office.	Continue to make copies of the Town's Stormwater Management Plan available for public review and comment at the Town Library and at the DPW office.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
3a Revised	Map outfalls and receiving waters	Department of Public Works	Complete mapping by end of fifth permit year	The Town completed mapping of all outfalls in urbanized areas during Permit Year 4, which was a year ahead of schedule. Although not required at this time, the Town also completed the mapping of 2,534 catch basins and 901 storm drain manholes during the sixth permit year. In Year 9, the Town added flow direction on the hard copies of their drainage system mapping.	The Town will continue to update their storm drain mapping as needed.
3b Revised	Develop illicit discharge detection & elimination plan	Department of Public Works	Make recommendations for proposed plan	During Permit Year 5, the Town made a number of recommendations regarding items to be included in their illicit discharge detection and elimination plan. These items included methods for identifying priority areas and locating illicit discharges and their sources. It also included procedures for removal of illicit discharges. All actions were documented. During Permit Year 9, the Town followed the Illicit Discharge Detection and Elimination plan that they developed during Permit Year 5.	The Town will continue to follow the Illicit Discharge Detection and Elimination Plan that they developed during Permit Year 5.
3c Revised	Review existing bylaws and regulations	Department of Public Works/Stormwater Advisory Committee	Determine whether existing bylaws/reggs are adequate	The Town reviewed their existing bylaws and regulations for requirements relating to illicit discharge detection and elimination during Permit Year 3. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
3d Revised	Develop/modify general illicit discharge bylaw	Department of Public Works/Stormwater Advisory Committee	If necessary, propose recommendations for bylaw updates	A general illicit discharge bylaw that meets USEPA requirements was developed during Permit Year 3. After having their attorneys review the general illicit discharge bylaw that was developed, the Town distributed the bylaw to local town boards and commissions for their review. Based on input from these departments, the bylaw was revised during Permit Year 5. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
3e Revised	Present bylaw for Town meeting action	Department of Public Works/Stormwater Advisory Committee	Make presentations for Town meeting action, if necessary	The bylaw was presented for Town Meeting action during Permit Year 5 and was adopted. This bylaw was enforced by the Town during Permit Year 9 and there were no violations.	The Town will continue to enforce the IDDE bylaw that they adopted during Permit Year 5.

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
4a Revised	Review existing bylaws and regulations	DPW/Planning/Zoning	Determine whether existing bylaws/regs are adequate	The Town reviewed the relevant sections of the Rules and Regulations Governing the Subdivision of Land, the Zoning Bylaws, and the Water Resource Protection Bylaw during Permit Year 3. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
4b Revised	Develop/modify bylaws for construction site runoff	DPW/Planning/Zoning	If necessary, propose recommendations for bylaw updates	In Permit Year 4, the Town completed the development of a bylaw for the control of construction site runoff. After having their attorneys review the bylaw that was developed, the Town distributed the bylaw to local town boards and commissions for their review. Based on input from these departments, the bylaw was revised during Permit Year 5. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
4c Revised	Present bylaw for Town meeting action	DPW/Planning/Zoning	Make presentations for Town meeting action, if necessary	The bylaw was presented for Town Meeting action during Permit Year 5 and was adopted. This bylaw was enforced by the Town during Permit Year 9, and there were no violations.	The Town will continue to enforce the bylaw that they adopted.
4d Revised	Review existing site inspection practices	DPW/Planning/Zoning	Determine whether existing practices are adequate	The Town reviewed their erosion/sedimentation control and drainage submittal requirements, as well as their site inspection practices, during Permit Year 4. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
4e Revised	Develop/modify site inspection practices	DPW/Planning/Zoning	If necessary, make recommendations for updating existing practices	During Permit Year 4, the Town completed review of their construction site inspection practices. The Town currently uses a consultant, Merrill Associates, who works for the Planning Board to oversee private developments. The DPW and the Conservation Commission also assist with internal site reviews. Any recommended changes to these site inspection practices were incorporated into the Town's Construction Site Runoff Control Bylaw, which was adopted during Permit Year 5. Changes to the Town's site inspection practices were enforced under this bylaw during Permit Year 9.	The Town will continue to enforce changes to their site inspection practices under their Construction Site Runoff Control Bylaw.

### 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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
5a Revised	Review existing bylaws and regulations	DPW/Planning/Zoning	Determine whether existing bylaws/reggs are adequate	The Town evaluated regulations regarding the control of post-construction stormwater runoff, including the Rules and Regulations Governing the Subdivision of Land and the Zoning Bylaws during Permit Year 3. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
5b Revised	Develop/modify bylaws for post-construction runoff	DPW/Planning/Zoning	If necessary, propose recommendations for bylaw updates	During Permit Year 4, the Town developed a post-construction site runoff control bylaw that meets USEPA requirements and considers MA DEP Stormwater Management Policy Standard 3 (Recharge to Groundwater). After having their attorneys review the bylaw that was developed, the Town distributed the bylaw to local town boards and commissions for their review. Based on input from these departments, the bylaw was revised during Permit Year 5. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
5c Revised	Present bylaw for Town meeting action	DPW/Planning/Zoning	Make presentations for Town meeting action, if necessary	The bylaw was presented for Town Meeting action during Permit Year 5 and was adopted. This bylaw was enforced by the Town during Permit Year 9 and there were no violations.	The Town will continue to enforce the bylaw that they adopted.
5d Revised	Review existing site inspection practices	DPW/Planning/Zoning	Determine whether existing practices are adequate	During Permit Year 4, the Town completed review of their existing site inspection and maintenance practices. No goals related to this item were planned for Permit Year 9.	<b>BMP Completed.</b>
5e Revised	Develop/modify site inspection practices	DPW/Planning/Zoning	If necessary, make recommendations for updating existing practices	During Permit Year 4, the Town completed review of their post-construction site inspection and maintenance practices. Once construction is complete, the Town takes ownership of new developments, and the DPW is responsible for the maintenance and operation of stormwater controls. Any recommended changes to these site inspection practices were incorporated into the Town's Post Construction Site Runoff Control Bylaw during Permit Year 5. Changes to the Town's site inspection practices were enforced under this bylaw during Permit Year 9.	The Town will continue to enforce changes to their site inspection practices under their Post Construction Site Runoff Control Bylaw.

## 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 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
6a	Sweep streets & clean catch basins	Department of Public Works	Sweep all town-owned streets and clean all catch basins once per year	During Permit Year 9, the Pembroke Highway Department swept 60% of the streets in Town at least once. In total, approximately 80 miles of roadway were swept. The Town cleans their catch basins on a continual basis. In Permit Year 9, 1,056 catch basins were cleaned.	Attempt to sweep streets in Town at least once per year and clean catch basins on a continual basis.
Revised					
6b	Maintain filtration system at North & Indian Head Rivers	Department of Public Works	Inspect baffle tank and leaching basin, and remove sediment	During Permit Year 9, the Town inspected the filtration system installed at the confluence of the North and Indian Head Rivers and removed sediment as needed.	Continue to inspect the filtration system at the confluence of the North and Indian Head Rivers and clean as needed.
Revised					
6c	Train municipal employees at each facility	Department of Public Works	Target all applicable municipal facilities	During Permit Year 3, the Town examined existing practices at municipal facilities, and trained employees at these facilities in construction methods to prevent soil erosion. In Permit Year 9, the Town conducted continual follow-ups to ensure that employees working at these facilities are following the required stormwater management practices.	Continue to conduct follow-ups at municipal facilities to ensure that employees are following the required stormwater management practices.
Revised					
6d	Implement items in EPA env. audit report for DPW facility	Department of Public Works	Ensure action items completed and BMPs followed	The Town made changes at the DPW Facility during Permit Year 1 to comply with the EPA Environmental Audit Report that was completed. These changes included developing a SPCC plan, which the Town continued to follow throughout Permit Year 9. With the exception of washing vehicles inside.	Continue to follow those changes implemented at the DPW Facility in response to the environmental audit report completed for this facility.
Revised					
6e	Retrofit catch basins around Furnace and Oldham Ponds	Department of Public Works	Install vortex separators and new piping	The catch basins around Furnace Pond and Oldham Pond were retrofitted with vortex oil/water separators during Permit Year 3 and they were maintained during Permit Year 9.	Maintain and clean regularly those catch basins around Furnace Pond and Oldham Pond that were retrofitted with vortex oil/water separators.
Revised					

### 6a. Additions

6f	Perform Stream Maintenance	Department of Public Works	Complete stream maintenance each year in coordination with the Plymouth County Mosquito Control Project	During Permit Year 9, the Town worked with crews from the Plymouth County Mosquito Control Project to remove blockages, brush and other obstructions from 235 linear feet of ditches and streams to prevent water overflows and stagnation.	The Town will continue to remove blockages, brush and other obstructions from ditches and streams in coordination with the Plymouth County Mosquito Control Project.
6g	Enhance Existing Storm Drainage Infrastructure	Department of Public Works	Incorporate BMPs wherever feasible into annual drainage improvement projects	During Permit Year 9, the Town completed drainage improvements on Hobomock Street and Oldham Street. In addition, stormwater BMPs were constructed at the landfill.	The Town will continue to assess drainage infrastructure needs and take advantage of opportunities to enhance their existing drainage system by retrofitting with BMPs.



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

*In Pembroke, there are no approved TMDLs. There are impaired waters in Pembroke that the MS4 discharges into and that require the development of a TMDL, as listed on the Final 2010 Integrated List of Waters, including Indian Head River, Furnace Pond, North River and Stetson Pond. Once TMDLs for these waters are approved, further evaluation is required to determine whether the pollutant of concern is likely to be found in stormwater discharges from the MS4.*

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10 (if applicable)
Revised					
Revised					
Revised					
Revised					

**7a. Additions**

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**7b. WLA Assessment**

*Not applicable.*

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

*No additional information has been collected or analyzed outside of what was listed in Part III above.*