

**Municipality/Organization:** Barnstable DPW

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**EPA NPDES Permit Number:** MAR 041090

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**MassDEP Transmittal Number:**

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**Annual Report Number**

**& Reporting Period:** No. 11: April 1, 2013 – March 31, 2014

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**NPDES PII Small MS4 General Permit  
Annual Report  
(Due: May 1, 2014)**

**Part I. General Information**

Contact Person: Dr. Dale Saad,

Title: Senior Project Manager

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Telephone #: 508-790-6400

Email: Dale.Saad@town.barnstable.ma.us

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Mailing Address: 382 Falmouth Road, Hyannis, MA 02601

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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: Thomas K. Lynch

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Title: Town Manager

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Date: April 11, 2014

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

The Town of Barnstable has completed the required self-assessment and has determined that our municipality is working towards compliance as we implement our Stormwater Management Program as described in the NOI dated July 28, 2003. The attached Summary of Minimum Control Measures describes steps taken to date.

The Town of Barnstable has addressed stormwater issues for many years. Some of the projects that have been ongoing for many years include; street sweeping, catch basin cleaning, drainage improvements, illegal discharge location identification & elimination, water quality monitoring, outfall mapping, coastal discharge mitigation, shellfish sanitary surveys, and participation in the Massachusetts Estuary Project (MEP) and the Cape Cod Commission 208 Plan. The Town is focused on the training of staff in chemical handling/application, assessment and handling with environmental issues.

A citizen committee was formed and is addressing water quality concerns. The Citizens Advisory Committee (CAC) deals with a range of water quality issues including stormwater, fertilizer use, wastewater and solutions to prevent problems now and in the future.

**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 – Permit Year 12
1-1	Educational Flyer	DPW/PHD	Develop Flyer & Distribute Installed Mutt Mitt Dispensers w/ signage	Door hanger flyer & bookmark developed in cooperation with CCC Project Storm Team are available at public and school events, and distributed during storm drain marker installation. Pet waste brochures are given during licensing of dogs.	Continue distribution flyers and maintain Mutt Mitt dispensers/signage. Develop new material as needed like flyer for “Get your mind in the gutter” and radio shows.
Revised					
1-2	Annual Meeting	DPW	Hold Meeting(s)	Public Meetings were held to discuss water quality results from MEP sampling, Action Plan for Ponds and Coastal Resources Management and CWNMP updates. Video available on Town Web Site for meetings.	Continue meetings to provide information on water quality with live TV and video available on line.
Revised	Inside Barnstable Town Government - Citizens’ Leadership Academy (CLA)	DPW	Informational meetings, perform annually.		Continue CLA with updated information
1-3	Web Page Development	DPW/PHD	Develop, post information and update as needed.	Information related to stormwater was posted on the Town web site including information on the MEP, and Household Hazardous Waste Collections. People are responding to web button	Maintain and update the posting. Increase use of the “The Barnstable Bulletin.
Revised	Home front page web button development	DPW/PHD/ConCom	Develop web button and people using site.		Update information and useful links to web button site.

**1a. Additions**

1-4	Think Blue – Stormy	MA Bays/DPW	Continue to request the use of “Stormy” at different events.	Display of MA Bays “Stormy” part of Think Blue Campaign in Barnstable. Having problems contacting “Stormy” handlers	Request use of “Stormy” for more events in Town. Having problems contacting “Stormy” handlers
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1-5	Display boards	DPW/PHD	Continue to develop and use displays as needed.	Private citizens using "Get your mind in the Gutter, and get pollution out" and dog poop display for their events.	Develop new boards and display at events. Update older boards.
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## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 12
2-1	Stormwater Management Committee	DPW	Establish committee that will deal with stormwater & water quality.	Citizens Advisory Committee (CAC) is now a standing Town committee to work on water quality issues that include stormwater. CAC meets once a month.	CAC continue to deal with the Towns estuaries, drinking water and fresh water issues.
Revised	The formation of the Nutrient Management Comm.				
2-2	Citizen Participation	-DPW/PHD -Hyannis Business Improvement Direct (HBID)	-Document Public Involvement -Pan & broom sweeping and pickup of trash in downtown Hyannis	HBID hires people to sweep and pickup trash on Main Street Hyannis. Citizen volunteers have participated in the Town MEP water quality-sampling program for the last 11 summers. Volunteers have installed storm drain markers.	Continue the sampling program, and storm drain markers program, and participation in public education events including school stormwater curriculum.
Revised					
2-3	Storm Drain Markers	DPW/PHD	Install Storm Drain Markers	More Cape Cod storm drain markers have been installed and volunteers replaced a many older/missing ones.	The Cape Cod storm drain markers will continue to be installed and replaced by volunteers and staff.
Revised					
2-4	Citizen Water Quality Monitoring	DPW/PHD	Monitor Ponds and Estuaries	Continued monitoring WQ stations that were sampled four times last season as part of the MEP. Sanitary Surveys work has continued with DMF. Town participated in Cape-wide pond sampling (PALS Program).	All programs described will continue.

**2a. Additions**

<p>2-5 CoastswEEP – Shoreline Clean-up</p>	<p>ConCom/Rec. Dept/DPW</p>	<p>Organize &amp; support annual shoreline clean- ups of fresh and marine shorelines.</p>	<p>Volunteer groups organized by Con Com for the clean up of beaches and town landings for the 25<sup>th</sup> annual CoastswEEP.</p>	<p>Continue program with the idea of the groups having ownership of their cleanup areas. Families are signed up for next years clean-up as an annual family get-together. Groups are already starting to form for a Spring cleanup.</p>
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### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 12
3-1 Revised	Storm Drain Mapping	DPW	Map Drains & Outfalls	Most of the storm drains in Hyannis and parts of the coastal areas are mapped. All known outfalls are mapped.	Town mapping will continue and update outfall map as needed.
3-2 Revised	Illicit Discharge Identification	DPW/PHD	Document Illicit Connections	During construction of roadways improvements, funded by the Town Capital Plan, illicit dischargers are addressed. Monitoring during DMF Sanitary Surveys has identified presence of illegal discharges	Continue illicit discharge detection using all methods available to the Town.
3-3 Revised	Illicit Discharge Enforcement	PHD	Correct Illegal Discharges	Illegal discharges are investigated and addressed after detection during Sanitary Surveys and/or during storm drain upgrades.	Continue detecting illegal discharges
3-4 Revised	DPW Training	DPW/PHD	Conduct training	Continued training and using the taped training session from the Town co-sponsored DPW Environmental Compliance Training/Project Storm.	Continue to conduct training as needed.
3-5	Public Information Televised programs dealing with stormwater and water quality	DPW/PHD DPW	Provide HazWaste Information “Talk of the Town” taped information on water quality, which is available on Town web site.	The Town’s web site, posters, and flyers provide information on Household Hazardous Waste (HHW) collection day(s). TV programs are “Project Storm” (DPW), ponds, coastal management and roadways dealing with water quality.	Continue televised tape messages about HHW and “Project Storm”.

### 3a. Additions


#### 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 – Permit Year 12
4-1 Revised	Conservation Commission Review	Con Com Con Com/DPW	Complete Review Conservation Staff gives training to DPW staff.	Review of existing wetland bylaw completed. Conducted training for DPW staff dealing with DPW work sites.	Review and update as needed. Continue training about wetlands bylaws for DPW work sites.
4-2 Revised	Subdivision Regulation	Growth Management	Complete Review	Reviewed existing subdivision regulations in the WP and Growth Incentive Zone (GIZ)	Review and update as needed.
4-3 Revised	Zoning Bylaw Review	Growth Management	Complete Review	Review of the Site Plan Review process conducted in the WP and GIZ	Review and update as needed.
Revised					
Revised					
Revised					

#### 4a. Additions


**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 – Permit Year 12
5-1 Revised	Conservation Commission Review	Con Com	Complete Review	Review of existing wetland bylaw.	Review and update as needed.
5-2 Revised	Subdivision Regulation	Growth Management	Complete Review	Reviewed existing subdivision regulations in the GIZ and WP	Review and update as needed.
5-3 Revised	Zoning Bylaw Review	Growth Management	Complete Review	Review of the Site Plan Review process conducted in the GIZ and WP	Review and update as needed.
Revised					
Revised					
Revised					

**5a. Additions**




## 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 – Permit Year 12
6-1 Revised	DPW Policy Guide	DPW	Complete Guide Keep updating guide	Spill Plan (SPCC) posted at all divisions. Policy Guide in draft form.	Update Policy Guide
6-2 Revised	DPW Annual Training	DPW	Complete Training	DPW Divisions are training staff in their work areas. At WPC, monthly crew meeting updates training.	Continue to conduct training.
6-3 Revised	DPW Permit Filing	DPW	File Con Com Permit Application as needed	DPW does this now. Goal met. Con Com Staff gives training to DPW staff.	Continue to file as needed.
6-4 Revised	Catch Basin Cleaning	DPW	This year focused on secondary public road catch basins cleaning.	Approximately 1,350@ public secondary road catch basins were cleaned this year.	Continue to clean catch basins and reducing sand load.
6-5 Revised	Street Sweeping Changing Salt-Sand Ratio and using Deicer Additives	DPW DPW Highway	Sweep all town main public roads annually Lessen sand load to the roadways will lessen amount of sweeping and CB cleaning required.	Goal met. All town main roads are swept annually. Downtown Hyannis village roads are swept on average 2 times a week during the season. Using the Towns' Weather Station, roadways are pretreated with Safe Melt and De-Ice-It before storms with modified spreaders. This reduces the sand load to 635 miles of roadways and associated catch basins.	Continue to sweep public roads and using all methods available to the Town to lessen sand loading to the town main roadways and catch basins.
Revised					
<b>6a. Additions</b>					

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 – Permit Year 12
7-1 Revised	Storm Drain Mapping	DPW/GIS	Map Drains & Outfalls	Most of Hyannis and coastal areas have been mapped. GIS drain mapping was audited and corrections are continuing.	Mapping of the Town will continue. Need to update repaired and new system changes. New GPS gear ordered.
7-2 Revised	Illicit Discharge Reduction	DPW/PHD	Reduction of Load	Staff working on Optical Brightener testing to identified presence of illegal discharges. Some illegal discharges have been corrected as a result of detection during DMF Sanitary Surveys or during Storm Drains upgrades.	Continue illicit discharge detection using all possible methods to identify illegal connections.
7-3 Revised	No Discharge Areas (NDA)	DPW/PHD/ConCom/MA Bays/APCC DPW/Hy-Line/Steamship Authority	Whole Town NDA Sewer connections completed for commercial vessels	No Discharge Areas (NDA) established for Three Bays, Centerville River, Cape Cod Bay, and South Side/Nantucket Sound NDA established. Updated NDA on South Side to close discharge areas for large vessels	South Side/Nantucket Sound NDA follow-up: 1.) Design/installation of Hyannis Harbor boat pumpout (year 11 & 12), 2.) Conversions of Steamship Authority boats from salt to fresh water flush for toilets (year 11 to 14).
7-4 Revised	Mass Estuaries Project (MEP)	DPW/CAC	Complete MEP	Three Bays, Rushy Marsh, and Centerville River /East Bay WQ Reports and TMDL Reports completed. WQ Report done for Lewis Bay area.	Complete working with the Town of Yarmouth on Lewis Bay Area TMDL Reports-runs. Working on Barnstable Harbor WQ Report with SMAST
<b>7a. Additions</b>					
7-5	Cape Cod Water Protection Collaborative	DPW/GMD	Solve issues and receive funding county wide	Working together with other Towns to solve problems and seek funding	Continue to work with county wide group on water issues. Help form a County wide Stormwater Managers Group.

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**7b. WLA Assessment**

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

The Town of Barnstable is one the Massachusetts communities to have nitrogen-loading thresholds completed as part of the MADEP's Massachusetts Estuaries Project. The thresholds developed are in the process of being incorporated into the town-wide Comprehensive Water and Nutrient Management Program which deals with all forms of water from waste, drinking, ground, surface and storm water.

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