

Municipality/Organization: Barnstable DPW

EPA NPDES Permit Number: MAR 041090

MassDEP Transmittal Number:

Annual Report Number

& Reporting Period: No. 14: April 1, 2016 – March 31, 2017

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2017)

Part I. General Information

Contact Person: Dr. Dale Saad,

Title: Senior Project Manager

Telephone #: 508-790-6400

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

Mailing Address: 382 Falmouth Road, Hyannis, MA 02601

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: Mark S. Ells

Title: Town Manager

Date: April 12, 2017

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.

In 2016, the citizen “Water Resource Advisory Committee” was formed, and is addressing water quality concerns as follows;

“§241-45.3 Water Resources Advisory Committee”

A. **Purpose of the Committee:** To advise the Town of Barnstable on the completion and implementation of its Comprehensive Water Resource Management Planning Project, with the goal of protecting and restoring the Town’s fresh and salt water bodies and its drinking water supplies, in compliance with the Cape Cod Commission’s Cape Cod Area Wide Water Quality Management Plan Update of 2015, (“The 208 Plan”)

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
1-1	Educational Flyer	DPW/PHD DPW/PHD/Con Com/Recreation Department	Develop Flyer & Distribute Installed Mutt Mitt Dispensers w/ signage	Door hanger flyer & bookmarker 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”.
Revised					
1-2	Public Meetings	DPW	Hold Meeting(s)	Public Meetings were held to discuss water quality results from MEP, Action Plan for Ponds and Coastal Resources Management, and CWNMP updates. Video available on Town Web Site for CAC/ WRAC 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.	----- CLA are held twice a year.	----- 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	Maintain and update the posting. Increase use of the “The Barnstable Bulletin.
Revised	<i>Home front page web button development</i>	DPW/PHD/ConCom	Develop web button and people using site.		Update information and useful links to web.

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
-----	---------------------	-------------	--	---	--

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 and repair older boards.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
2-1	Stormwater Management Committee	DPW	Establish committee that will deal with stormwater & water quality.	Citizens Advisory Committee (CAC) was changed to Water Resources Advisory Committee (WRAC) which is a standing Town committee to work on water quality issues that include stormwater.	Continue to deal with the Towns Waters which includes 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 14 summers. Volunteers have installed storm drain markers.	Continue the sampling program, 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	All programs described will continue. Work on increasing PALS program for pond sampling.

2a. Additions

2-5	CoastswEEP – Shoreline Clean-up	ConCom/Rec. Dept/DPW	Organize & support annual shoreline clean-ups of fresh and marine shorelines.	Volunteer groups organized by Con Com for the clean up of beaches and town landings for the 29 th annual COASTSWEEP.	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.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
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. BETA hired to update maps	Town mapping will continue and update outfall map as needed. BETA to continue updating data.
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.	DPW to hire Safety Officer for chemical handling training. Continue to conduct training as needed. Lawn and plant care additions.
3-5	Public Information	DPW/PHD	Provide HazWaste Information	The Town's web site, posters, and flyers provide information on Household Hazardous Waste (HHW) collection day(s).	Continue televised tape messages about HHW and "Project Storm".
	Televised programs dealing with stormwater and water quality	DPW	"Talk of the Town" taped information on water quality, which is available on Town web site.	TV programs are "Project Storm" (DPW), ponds, coastal management and roadways dealing with water quality.	

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
4-1	Conservation Commission Review	Con Com	Complete Review	Review of existing wetland bylaw completed.	Review and update as needed.
Revised		Con Com/DPW	Conservation Staff gives training to DPW staff.	Conducted training for DPW staff dealing with DPW work sites.	Continue training about wetlands bylaws for DPW work sites.
4-2	Subdivision Regulation	Growth Management	Complete Review	Reviewed existing subdivision regulations in the WP and Growth Incentive Zone (GIZ)	Review and update as needed.
Revised					
4-3	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					

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
5-1	Conservation Commission Review	Con Com	Complete Review	Review of existing wetland bylaw.	Review and update as needed.
Revised					
5-2	Subdivision Regulation	Growth Management	Complete Review	Reviewed existing subdivision regulations in the GIZ and WP	Review and update as needed.
Revised					
5-3	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					

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
6-1	DPW Policy Guide	DPW	Complete Guide	Spill Plan (SPCC) posted at all divisions. Policy Guide in draft form.	Update Policy Guide
Revised			Keep updating guide		
6-2	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.
Revised					
6-3	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, also report any work to Con Com if near resource area.
Revised					
6-4	Catch Basin Cleaning	DPW	This year focused on secondary public road catch basins cleaning	Approximately 1,743 catch basins were cleaned this year.	Continue to clean catch basins and reducing load.
Revised				Reduced sand use to zero (0) , more catch basins were cleaned.	
6-5	Street Sweeping Changing Salt: Sand Ratio and using Deicer Additives	DPW	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 during the season. Using the Towns' Weather Station, roadways are pretreated with deicing liquid before storms with modified spreaders. This reduced sand use to zero (0) .	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					

6a. Additions

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 14 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 15
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. Update new tracking system and order additional sections.
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 South Side/Nantucket Sound was updated to close discharge areas for large vessels. Two new pumpout stations are now available in Hyannis Harbor	South Side/Nantucket Sound NDA follow-up: Conversions of Steamship Authority boats from salt to fresh water flush for toilets completed
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.	Continue working with Yarmouth on Lewis Bay Area TMDL Reports-runs. Working on Barnstable Harbor WQ Report with SMAST

7a. Additions

7-5	Cape Cod Water Protection Collaborative & Cape Stormwater Managers	DPW	Solve issues and receive funding county wide	Working together with other Towns to solve problems and seek funding	Continue to work with county wide groups on water issues.

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)