

Rec'd: 7/14/10

Municipality/Organization: Town of Dennis

EPA NPDES Permit Number: MAR041103

MADEP Transmittal Number: W-041145

Annual Report Number & Reporting Period: No. 7: March 09-March 2010

JUL X7 2010

P

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Joseph A. Rodricks Title: Town Engineer

Telephone #: 508-760-6145 Email: jrodricks@town.dennis.ma.us

#### 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: Richard J. White

Title: Town Administrator

Date: 7/7/10

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

The Town of Dennis has completed the required self-assessment and has determined that our municipality is currently in compliance with all permit conditions. During the past year, the local Comprehensive Wastewater Management Task Force presented an article for a Stormwater Management By-law to the voters of the October 29, 2009 Special Town Meeting at which time it was unanimously approved. In February 2010, the town received word that the Attorney General's office had approved the bylaw and on March 30, 2010, the Dennis Board of Selectmen held a legally posted hearing, and as authorized in the by-law, passed the Stormwater Rules and Regulations for enforcement of the by-law.

**Part III. Summary of Minimum Control Measures**

**1. Public Education and Outreach**

<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</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – next Permit Year</b>
1.1 Revised	Provide literature & pamphlets	Director of Natural Resource, Karen Johnson,	Provide literature w/ off-road & shellfish permits	Brochures in information tree in office with the theme “Think Globally-Act Locally”.  Purchased educational kiosks for Crowe’s Pasture Conservation Area and Chapin Beach educating public and conservation management	Continue to expand and update brochure selection. Display educational material in the kiosks at Crowe’s Pasture Conservation Area and Chapin Beach for educating public and conservation management. Educational information provided through the Town of Dennis web page under Natural Resources Department.
1.2 Revised	Provide Public awareness classes	Shellfish Officer Alan, Marcy	Provide Information to school children	CRABS. (Commercial Recreational Association for Better Shellfish) held 10 educational events to promote shellfish, clean fishing runs, quahog seeding, oyster farming, and other educational instruction with a web site www.denniscrabs.com	Continue to expand CRAB volunteer programs and activities aimed at educating public on aqua culture and pollution of estuaries.
1.3 Revised	Provide Literature & Information	Town Engineer J. Rodricks	Provide literature & Information to public	Posters distributed by Cape Co Groundwater Guardian Project maintained at Dennis DPW building. Participated as active member in Barnstable County “PROJECT STORM” Department webpage has link to NPDES website and is periodically updated.	Continue to improve website to include information and project related information. Continue to work with other Cape communities in public outreach under the Barnstable County “Project Storm” initiative

**1a. Additions**

1.4	Provide Literature and Information	Town Planner, Daniel Fortier	Provide information to the public through the Town of Dennis Planning Department Weblog	The Planning Department has made use of the Weblog to reach out to residents, property owners and builders to keep them aware of local issues. Stormwater Management and other site design issues are addressed regularly on the Weblog	Continue to provide information on site design and stormwater issues through the Weblog.
-----	------------------------------------	---------------------------------	---	---	--

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
2.1 Revised	Sponsor & Advertise Household Hazardous Waste Collection Days	Board of Health Terry Hayes, Health Director	Encourage proper disposal of hazardous materials	Two (2) Household Hazardous Waste Collection Days held: June 6, 2009 with 3,320 Gallons collected; and Sept. 12, 2009 with 1,881 gallons collected.	Two (2) Household Hazardous Waste Collection Days to be held June and September 2010. Continue to do advertisements & mailings to residents and businesses that are small quantity generators
2.2 Revised	Volunteer Coast Sweep	Natural Resources - Karen Johnson	Annual Beach Cleaning	One day coastal sweep September, 2009 was cancelled due to inclement weather.	Repeat & expand Coastal Sweep in September 2010.
2.3 Revised	Pet waste management	Animal Control Officer-	Provide disposal mitts and waste receptacles at Town Beaches Create "Waste Disposal" By-law	Placed disposal mitt receptacles at Fresh Pond Dog Park, Flax Pond, Swan Pond overlook, and Chapin Beach. Install additional signs on Town Beaches relative to Dog Waste Disposal Bylaw and fine.	Propose higher fines for dog waste violations and restrictions in public places.  Place additional mitt dispensers at Chapin Beach, Crowe's Pasture Conservation Area, Seaview Park and Johnny Kelly Park.
2.4 Revised	Proper Disposal of Boat Septic Storage Tanks	Harbor Master- Terrence Clen	Notify Boat Owners annually	Posted notices and flyers sent promoting pump-out facility installed at Sesuit Harbor.	Continue to promote use of Sesuit Harbor pump-out in several local magazines and direct notifications to boaters.
Revised					
Revised					

### 2a. Additions



### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
3.1 Revised	Identify Discharge and Map Discharges	Town Engineer- Joseph Rodricks	Identify & prioritize	Continued to update Outfall map to include spillways and outfalls into non-Federal waters.  Hired consultant to survey and inspect the Division St. outfall pipe.  There were no known illicit stormwater discharges reported in the town.	Complete GPS all outfalls and spillways and include on proposed GIS mapping system.  Complete mapping of Division St outfall pipe system and take action as necessary.  Continue to monitor and investigate any reported or uncovered illicit stormwater discharges.
3.2 Revised	Notify Owners of Violation eliminate using BMP	Town Engineer Joseph Rodricks	Identify & eliminate all known discharges.		
3.3 Revised	Enforcement Agency	Police Chief Michael Whalen	Enforcement of Sate Illegal Disposal Law	Continue to enforce illegal dumping laws. Illegal dumping calls have reduced in CY 2010 over 2009.	Add literature and information on illegal activities to Department web site.
Revised	Illicit Discharge/hazardous Spill investigation	Terry Hayes, Health Director	Identify and investigate	Identified and investigated two (2) hazardous spills and one (1) illegal discharges.  One location involved release of 108 gallons of gasoline. Enforcement action taken by Fire and Health. Other locations did not result in spillage into federal waters.	Continue to monitor for illicit discharge/hazardous spills.
Revised					
Revised					

### 3a. Additions

3.4	Identify and GIS Map Stormwater discharges	Town Engineer Joseph Rodricks	Identify & prioritize	Town hired a full time GPS person to institute mapping layers including stormwater drainage systems.	Continue to update mapping with new discharge points.



#### 4. Construction Site Storm Water Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
4.1	Propose By-law <i>Storm water management By-Law</i>	Dennis Board of Selectmen- Chair Paul McCormick	Storm water & erosion control Standards & Enforcement	October 29, 2009 Special Town Meeting approved Storm Water Management By-law and following approval by the office of the Massachusetts Attorney General, the Board of Selectmen adopted Rules and Regulations on March 30, 2010.	Enforce and maintain Stormwater Management Rules and Regulations.
Revised					
4.2	Order of Conditions	Conservation Commission- Donald Waldo Chairman	Eliminate Runoff & erosion during construction.	Issued Orders of Conditions for construction projects with no discharge allowed.	Continue to monitor projects for and the elimination of storm water runoff.
Revised					
4.3	Subdivision Rules & Regulations	Planning Board W. Murray, Chair	Eliminate runoff & erosion during construction.	Monitored all subdivision plans for possible storm water runoff.	Continue to monitor projects for and the elimination of storm water runoff
Revised					
Revised					
Revised					

#### 4a. Additions

4.3	Estuary study	Dennis Comprehensive Wastewater Management Task Force.	Evaluate Swan River, Swan Pond, Sesuit Creek and Chase Garden Creek and establish Total Maximum Daily Limit for nitrogen loading	Conducted water sampling using Water Quality Committee volunteers under the direction of the Board of Health Agent as part of the DEP/SMART study to establish the Total Maximum Daily Limit for Nitrogen Loading for estuaries.	Conducted water sampling using Water Quality Committee volunteers under the direction of the Board of Health Agent until DEP/SMART study complete.
4.4	Zoning	Zoning Board of Appeals Ernie Oliveira, Chair & Planning Board, Willette Murray, Chair	Eliminate runoff and erosion during construction	Monitored all commercial development for possible storm water run-off. Makes recommendations on storm water design and construction.	Continue to monitor projects for and the elimination of storm water runoff.

### 5. Post-Construction Storm Water Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
5.1	Propose By-Law	Board of Selectmen- Chair Paul McCormick	Storm water & Erosion Control Standards & enforcement	October 29, 2009 Special Town Meeting approved Storm Water Management By-law and following approval by the office of the Massachusetts Attorney General, the Board of Selectmen adopted Rules and Regulations on March 30, 2010.	Enforce and maintain Stormwater Management Rules and Regulations
Revised					
Revised					
Revised					
Revised					

Revised							
Revised							

**5a. Additions**

5.2	Subdivision Rules & Regulations	Planning Board W. Murray, Chair	Require conformity in all subdivisions with the Storm Water and Erosion Control Standards	Require all subdivisions to meet Town of Dennis Storm Water requirements.	Continue to require all subdivisions to meet Town of Dennis Storm Water requirements
5.3	Zoning	Zoning Board of Appeals Ernie Oliveira, Chair & Planning Board, Willette Murray, Chair	Require conformity in all commercial developments with the Storm Water and Erosion Control Standards	Require all commercial projects to meet Town of Dennis Storm Water requirements.	Continue to require all commercial projects to meet Town of Dennis Storm Water requirements.

## 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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
6.1 Revised	Street sweeping/ basin cleaning/ roadside mowing	DDPW Superintendent- D. Johansen	Maintenance of Drainage	Continued to evaluate and prioritize basins to be cleaned targeting areas of greatest potential impact of estuaries.  Maintain Stormwater BMP for the Bass River/Kelly's Bay/Follin's Pond area	Continue to evaluate and prioritize basins to be cleaned targeting areas of greatest potential impact of estuaries. Seek funding to increase number of basins cleaned.  Continue to maintain all Stormwater BMPs for the Bass River/Kelly's Bay/Follins Pond area  Continue to maintain existing enclosed operations.
6.2 Revised	Existing enclosed salt storage.	DPW Superintendent D. Johansen	Exposure reduction	Maintain existing enclosed operations.	Continue to maintain existing maintenance programs. Implement "Equipment Tracker" operations program.
6.3 Revised	Regular vehicle maintenance	DPW Superintendent- D. Johansen	Exposure reduction	Regular vehicle maintenance instituted	Continue to maintain existing enclosed operations.
6.4 Revised	Existing enclosed vehicle storage & wash bay. <i>Schedule weekly vehicle cleaning &amp; assessment.</i>	DPW Superintendent- D. Johansen	Exposure reduction	Maintain existing enclosed operations.	Continue to maintain existing enclosed operations.
6.5 Revised	Invite NEIWPCC to speak <i>Employees education</i>	DPW Superintendent- D. Johansen	Provide information to employees Exposure reduction.	Enroll employees into seminars and demonstrations promoted by Bay State Roads and other organizations as they are scheduled.	Continue to enroll employees into seminars and demonstrations promoted by Bay State Roads and other organizations as they are scheduled.  Repeat and expand cleanup to other locations.
	Tidal stream cleanup.	Shellfish Officer A. Marcy	Pollutant removal	Worked with the "Cape Cod Salties" volunteers to clean up the Bound Brook herring run. Worked with CRABS	

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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – next Permit Year
7.1 Revised	Installation of leaching drainage systems	Town Engineer J. Rodricks	Exposure reduction	Completed installation of several BMPs on Highbank Rd Bridge, Lower County Rd at Seaview Park, Peter Oliver Road & Trotting Park Road.	Install remediation measures on New Boston Road at Chase Garden Creek., Rte 28/Baxter Street at Swan Pond River, Indian Pond Rd at Weir Creek estuary and Chase Avenue at Inman Road tidal creek.
7.2 Revised	Water quality sampling	Natural Resources Dept. Alan Marcy, Shellfish Constable	Ensure water quality	Samples taken in Scargo Lake, Hiram Pond, Coles Pond and Fresh Pond.	Continue and refine sampling program. Expand to include estuaries in 2011.
7.3 Revised	Use compost material to stabilize shoulders	DPW Superintendent- D. Johansen	Erosion control	Stabilized slopes and minimized runoff at Sea View Park, and Bass River Park.	Continue and improve slope stabilization where necessary
7.4 Revised	Coastal Pollutant Remediation Program	Town Engineer J. Rodricks	Exposure Reduction and/or elimination	Town applied for a Non-Point Source Pollution mitigation grant for the remediation of the Route 28 outfall pipe into Bass River. No award made.	Develop pollution mitigation measures for County Circle drainage system. Apply for Federal funding for Rte 28 at Bass River design.
7.5 Revised	Weekly Water Sampling of Beaches <i>Water sampling o beaches during summer weeks.</i>	Town Health Director Terry Hayes	Ensure water quality	Weekly sampling of 20 beaches June thru August weekly Additional tests taken on days of 1” or greater rainfall. During summer of 2009 there were eight 8) beach closures resulting in 10 days closed.	Repeat testing program.
7.6 Revised	Salt Marsh Restoration program	Director of Natural Resource K. Johnson	Increase tidal flushing and improve fish and wildlife habitat.	Designed, permitted the completed dredging of the mouth of Swan Pond River Road increasing tidal flushing into Swan Pond.	Develop plans for culvert replacement on Lower County Road for Weir Creek.. Seek financial assistance from the Cape Cod Water Resources Restoration Project . Develop plans for Bass River Railroad bridge

**7a. Additions**

7.7	Installation of Porous Pavement	Town Engineer J. Rodricks	Exposure Reduction	Installed porous pavement on Trotting Park Rd and eliminated potential for runoff into salt marsh.	

**7b. WLA Assessment**

In 2002 the Town identified the Bass River and Kelley's Bay area as the highest priority for immediate implementation of BMP solutions. Working with the Town of Yarmouth, most outfall locations along this waterbody have been identified and BMP solutions installed. The Town continues to seek funds to address mitigation measures for the MassDOT Route 28 outfall which flows into Bass River. The Town has also identified the MassDOT route 28 outfall into Swan Pond River as a stormwater pollutant source and is also seeking federal funds to install BMP measures on this system as well.