11/1/11

P

Municipality/Organization: Dartmouth, Massachusetts

EPA NPDES Permit Number: MAR041102

MaDEP Transmittal Number: W-

Annual Report Number
& Reporting Period: No. 8: March 10-March 11

NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: David T. Hickox, P.E. Title: Director

Telephone #: (508) 999-0740 Email: dhickox@town.dartmouth.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: David B. Cressman

Printed Name: David Cressman

Title: Executive Administrator

Date: October 18, 2011

Part II. Self-Assessment

The Town of Dartmouth Massachusetts has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
1-1	Partnerships	DPW,BOH	Partnerships, Press releases, distribute	The Board of Health and Department of Public Works continue with ongoing inspections to identify sources of illicit discharges. The Town has continued a multi-year partnership with the University of Massachusetts, the Dartmouth Lloyd Center, and the Coalition for Buzzards Bay to restore the health of Dartmouth's coastal estuaries and rivers. The Town is hopeful UMass will complete the final reports on river loading in the spring of 2012. The Final Report will assess the build-out analysis and TMDL's will be established to assist the Town in the resource restoration. The Town continues to maintain and replace missing tributary signs on a as needed basis.	.
Revised	*Install tributary signage .*	Planning	.Maintain and replace as necessary tributary signs.		
1-2	Educational Materials	DPW,BOH	Distribute Fact Sheets to municipal buildings, Paint winning "Storm Drain Stencil" in designated areas..	The Town initiated a Cigarette Liter Prevention Educational Program in 2011. The Town declared July 2011 Cigarette tter Prevention Month and posted appropriate signage thru-out the Town particularly at traffic lights where	

Revised				the cigarette liter is problematic. The Town continues to provide Storm Drain Information via fact sheets at various locations throughout the Town. The Town utilized Highway Division laborers to maintain cigarette dispensers and install public notices as part of the "cigarettes are liter" campaign. . The DPW continued with the installation of permanent storm water logos on catch basin inlets. Damaged or missing logo's were replaced on an as needed basis. .	
1-3	Reaching Diverse Audiences	DPW, BOH		The "cigarette are liter" campaign reached significant audiences by placement of the liter signs at all major traffic intersections in Dartmouth during the month of July. The Town will reuse the liter signs on an annual basis to continue to reach a diverse audience. The Town continues to provide storm water general info/programs to the general public as well as the building/construction industry via notice with all construction contracts. The Town provided "Community Clean Up Day" in addition to "Hazardous Waste Day".	
Revised					
Revised					
Revised					

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
2-1 Revised	Storm Drain Stenciling	Planning, ConCom, DPW	Number of installed stormwater logos.	Town continued utilize DPW laborers to maintain and install new metal stormwater logos and tributary signage. Due to budget constraints the use of Umass college interns during the summer of 2010 was not possible.	
2-2 Revised	Existing Program Assistance	DPW, ConCom	Update of the NPDES Phase II Program to Town Boards	Staff continued ongoing review of applicable bylaws and regulations pertaining to storm water and continued to maintain tributary signs. The Town continued year 3 of a community clean up day consisting of multiple groups and assistance from the DPW Highway Division.	
Revised					
Revised					
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
3-1	Mapping	DPW,ConCom	Coordination of data collection with students from New Bedford Vocational High School	Reviewed and update mapping as required through the DPW Engineering Division and the Conservation Commission.	
Revised			Utilize Buzzards Bay National Estuary Program data and Stormwater Discharge Atlas	Due to a lack of funding, the Town has halted additional effort on GIS drainage plan upgrades for 2010 Town plans to continue with Town wide storm water mapping under the new MS4 Permit. In the current year, the Town will utilize the Atlas of Stormwater Discharges in Buzzards Bay Watershed as the base drainage plan for the community.	
3-2	Legal Prohibited – Enforcement	BOH, ConCom	Continued review and upgrading of existing stormwater related bylaws. Restrict feeding of geese.	The Board of Health continues to collect and review data identifying potential areas of illicit discharge. DPW crews perform sanitary inspections of all drainage structures	

Revised			DPW personnel have been directed to perform inspections on all SMH's and DMH's when ever the cover is opened. Inspections include condition of MH and evaluation of function to identify illicit connections.	during routine maintenance. DPW, Board of Health and Conservation Commission regulations have been reviewed to strengthen if required areas that prohibit illicit connections to storm drain systems. The Department of Public Works did not uncover any illegal connections to the storm drain system in Year 8. DPW will be installed a Vortec 9000 Unit in the Padanaram Harbor watershed to reduce TSS impacting the bay. The Town anticipated the installation of storm water treatment facilities on Rogers Street in 2012. The water shed includes The City of New Bedford and the Town. The Town has applied for funding for this project through the Mass Works Infrastructure Program.	
3-3 Revised	Detection Plan	BOH,DPW	Water quality testing and monitoring.	The Town had granted an extension to the contract with UMass for the Turn the Tide Program. The Town is awaiting the Final Report and will utilize the document to guide future detection plan direction. The town continues to work with our partners Umass and the Loyd Center for Environmental Studies and on the build-out analysis as part of the final phase of the Turn the Tides Project.	

3-4 Revised	Awareness & Education	BOH,Planning	Continue to update the placement of Fact Sheets in Public Facilities, prepare and fund (2) two Household Hazardous Waste Days during this reporting period..	Fact sheets and Stormwater informational brochures have been obtained and displayed, one (1) Community Clean Up and two (2) Hazardous Waste Days have been advertised and held at the DPW Highway Yard.	
Revised					
Revised					

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
4-1	Stormwater Management	ConCom	Providing Stormwater Management Guidelines & Requirements	The Town continues to enforce storm water BMP's for private sector projects. Town continues the review and update of local bylaws and regulations as necessary.. Conservation Commission continues to inventory structural storm water technologies within the Town . Continued the review of standards for Stormwater related to the construction of residential and commercial developments.	
Revised					
4-2	Stormwater Regulations	Planning Board	Review of Subdivision Regulations relative to stormwater control during construction.	Enforcement of subdivision regulations that prevent the release of residential lots for sale until all stormwater facilities have been constructed and are fully operational.	
Revised					
4-3	Education Materials	DPW	Provide Stormwater Information to all contractors that have been awarded construction contracts with the Department of Public Works.	All contractors performing site work or utility work on significant size projects are provided with a Memorandum and wall guide to Planning & Implementing Erosion & Sediment Control Practices.	.
Revised					
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
5-1	Stormwater Management	ConCom	Enforcement of Town of Dartmouth's and Mass DEP's Stormwater Guidelines.	Ongoing review and monitoring of the current stormwater bylaws and regulations. The Town has a designated drainage consultant who is responsible for the review of all stormwater designs. The Town's Environmental Affairs Coordinator monitors all construction related activities.	
Revised					
5-2	Drainage Consultant	ConCom	Consistent Technical Review of Stormwater design and policy.	Consultant continues to provide technical input Conservation Commission pursuant to Stormwater Regulations and Bylaws. Consultant continues the review of all Notice of Intents involving the construction of drainage facilities and drainage calculations.	
Revised					
5-3	Subdivison Rules & Regulations	Planning	Enforcement of regulations pertaining to stormwater facilities being fully operational prior to release of lots.	Developers are aware that they must construct all drainage facilites, and provide fully operational system prior to the release of any lot for sale.	
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
6-1 Revised	Employee Training	DPW	Provide employee training in conjunction with 40 CFR 112 program.	DPW provides staff training on Storm Water Good Housekeeping. The DPW has a new training videos for good housekeeping in municipal facilities. SPCC training will be performed in 2012 by the Director of Public Works to all field personnel on "Good Housekeeping Methods". Examples of daily maintenance procedures and equipment inspections will be presented.	Director of Public Works to provide in house SPCC training in 2012.
6-2	O&M Program	DPW	Implementation of O&M program designed to reduce and or eliminate the discharge of pollutants form various DPW facilities.	DPW Highway Division has purchased salt brine production equipment. In 2011, the Town started with a salt brine pretreatment program that will reduce the volume of salt used for snow and ice operations. As noted, the Town has eliminated the use of road sand for	DPW has requested additional funding for equipment needed to distribute salt brine to the roadways for 2012.

Revi.				snow & ice operations. The new snow and ice procedures have dramatically reduced the volume of sand collected in catch basins and discharged to steams and the bay. Operators have ongoing training on the proper procedures for delivery of salt to roadway, The Town has requested funding for a new vacuum sweeper. This new sweeper will supplement the existing three sweepers and will allow the Town to complete sweeping operations in a more timely manner. Staff monitors all exterior stored equipment for fluid leakage. Stormwater detention ponds at the Highway Division garage have been serviced and the remaining Highway Division Yard is swept clean of salt residues, the existing oil/gas separator has been fully serviced after the winter season in preparation for the new season	
6-3	Roadway Maintenance	DPW	Sweep all streets. Clean all catch basins annually.	The Town swept all primary roadways and a majority of secondary roadways. The addition of a third sweeper has improved street cleaning operations. The Town has cleaned all catch basins in Town under private contract on an annual basis..	
Revised					
Revised					
Revised					
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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
7-1	BMP's for TMDL Reduction	DPW	Implement BMP's for existing stormwater facilities..	The Umass Turn the Tides Project will establish TMDL's for the Town to obtain. The will continue to work closely with Umass in setting up the necessary programs to meet the expected TMDL limits. The Town continues to uses new Vacum Truck for servicing stormwater facilities.	
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

- The Town is in receipt of the Turn the Tides DRAFT Final Report, at his time, we are awaiting the submittal of the Final Apponagansett Bay Report, and the Amended Paskemansett/Slocum River Report. The final reports are expected in 2011. The Town will be meeting jointly with UMass, the Coalition for Buzzard's and the Loyd Center to discuss the report findings and recommendations. The Town granted an extension to the Contract in order to complete the project.

- The Town Board of Health and Department of Public Works continue to respond and inspect for all potential sources of illicit discharge.

- The Town implemented a "Cigarette is Liter Prevention" campaign during July 2011. The program included the installation of "cigarette liter is trash" posters that were placed at all major traffic intersections during the month of July 2011. The Town also held the third annual Community Clean Up Day with a trash barrel painting program.

- The Town will be installed a Vortec 9000 storm water unit to service a large watershed to the Padanaram Harbor. The Town has designed and applied for funding for the installation of a storm treat system to service a significant watershed to Clarks Cove. The unit will provide treatment to New Bedford and Dartmouth storm water on Rogers Street.

- The Coalition for Buzzards Bay, and the University of Massachusetts on the Turn the Tide Project is a commitment by the Town to protect Buzzards Bay and the contributing river bodies by restoring the health and vitality of Dartmouth's waters. The project final reports should be completed by the end of 2011.

- The DPW Highway Division has continued to maintain and replace damaged or missing storm water logo and tributary signs.

- The program continues to support the local estuary projects including the overall progress being made by the Umass Dartmouth School of Marine Science and Technology of the various brooks and ponds in the Town of Dartmouth.

- The DPW has requested funding for a new street sweeper (Fall Annual Town Meeting) and additional salt brine equipment to reduce the impact snow & ice operations have on the environment.

- Conservation Commission continues to provide guidance and direction in prioritizing the placement of structural storm water units in Town.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	
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)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	

material collected	(tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

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

% of population on septic systems	(%)	

Construction

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

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
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.)		
Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
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 % $CaCl_2$ % $MgCl_2$ % 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)	