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TOWN OF DARTMOUTH  
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**Municipality/Organization:** Dartmouth, Massachusetts

**EPA NPDES Permit Number:** MAR041102

**MaDEP Transmittal Number:** W-

**Annual Report Number  
& Reporting Period:** No.13: March 15- March 16

APR 13 2016

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

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

Title: 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: David Cressman

Title: Executive Administrator

Date: April 4, 2016

## **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.**

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**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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
1-1	Partnerships	DPW,BOH	Partnerships, Press releases, distribute	The Department of Public Works continues to maintain and replace as necessary tributary signs.	.New permit to be issued in 2016
Revised	<i>Install tributary signage .</i>	Planning	.Maintain and replace as necessary tributary signs.	The Apponagansett Bay draft final report has been received by the Town and is currently under review.	Town intends to maintain tributary signs under new permit.
				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. UMass has completed the Slocums/Little River Report and the Final Report was submitted to DEP on May 20, 2013	
1-2	<i>Educational Materials</i>	DPW,BOH	Distribute Fact Sheets at municipal buildings, install Storm Drain Stencils in designated areas..	The Town implemented a new Stormwater Hotline to report pollution. The hotline project included the development of “Don’t Let Pollution Go Down The Drain” posters displayed throughout all Town building. Hotline	Maintain and monitor Pollution IDDE Hotline.

Revised				<p>business cards are also located at each poster location.</p> <p>The Town initiated a Cigarette Litter Prevention Educational Program in July of 2011. The DPW will continue to declare July as Cigarette Litter Prevention Month and will post appropriate signage thru-out the Town particularly at traffic lights where the cigarette litter is problematic.</p> <p>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 litter" campaign. Due to funding, the DPW was unable to utilize UMass Engineering interns for the installation of permanent storm water logos on catch basin inlets in 2015. Damaged or missing logo's were replaced on an as needed basis by DPW laborers.</p>	
1-3 Revised	Reaching Diverse Audiences	DPW, BOH		<p>The Town will reuse cigarettes are litter signs in 2016 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".</p>	Town intends to implement cigarettes are litter campaign in July 2016.
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
2-1 Revised	Storm Drain Stenciling	Planning, ConCom, DPW	Number of stormwater logos maintained.	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 2015 was not possible.	New Permit to be issued in 2016  Town intends to utilize engineering interns to install new and maintain existing storm water stencils.
2-2 Revised	Existing Program Assistance	DPW, ConCom	Request funding and update status of the NPDES Program to Town Boards	Staff retained consultant to update stormwater bylaws and regulations. Continued to maintain tributary signs.  The Town continued year 7 of a community clean up day consisting of multiple community groups, and support from Dunkin Donuts, and assistance from the DPW Highway Division. The 2016 Clean Up will be for the weekend of April 23, the Town will distribute free PAYT Bags to community groups and residents to assist in the clean up.	Implement consultants recommended action plan for Draft Permit implementation.
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
3-1	Mapping	DPW, ConCom	Coordination of data from Dartmouth DPW and Conservation Commission	Continue to update mapping as required through the DPW Engineering Division and the Conservation Commission.	Testing of water quality will be a requirement under the new permit to be issued in 2016.
Revised			Budget for new NPDES Permit .	The Town has budgeted funds to retain a consultant to assist in the implementation of the new NPDES Permit.	Budget for new NPDES Permit is currently proposed in DPW FY 2017 operating budget. .
				The Town utilized an engineering intern in FY 2016 to locate and photo all outfalls utilizing an iPad with GPS. The data is being utilized for the development of the composite GIS mapping plan based on the draft permit and has made recommendations to the Town as it pertains to the existing permit and looking forward to the new permit.	One our ongoing tasks will be to complete the Town composite drainage plan including all outlets to resource locations. In 2015, the Town retained a consultant to develop a plan of action to meet the proposed 2016 NPDES Permit and develop the NOI scope  In the coming year the Town intends to adopt updated stormwater bylaws and regulations, improve the IDDE Program and continue the collection and development of our outfall inventory map generation. Development of the GIS Stormwater Map is a priority. Develop stormwater bylaws and improve IDDE monitoring program.
3-2	Legal Prohibited – Enforcement	BOH, ConCom	Continued review and upgrading of existing stormwater related bylaws	Consultant retained to assist the Town in the development of Stormwater Bylaws and Regulations	Develop new Stormwater Bylaws and Regulations. Develop written protocol for inventorying stormwater outfalls and

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.	DPW crews perform sanitary inspections of all drainage structures 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.  DPW maintained the two Vortec Units discharging to Padanaram Harbor and were impressed by the unit capture rates resulting in reduced TSS impacting the bay. These units have reduced documented siltation of Apponagansett Bay.	for monitoring out  The Town anticipates the installation of storm water treatment facilities on Rogers Street in 2016.
3-3	Detection Plan	BOH,DPW	Water quality testing and monitoring.	The Town has received the DRAFT Final Report for Apponagansett Bay. The report is currently under review by the Town's Environmental Affairs Coordinator . Comments will be made during the review period.	Seek final approval of the Apponagansett Bay Report. Implement report recommendations.
Revised					
3-4	Awareness & Education	BOH,Planning	Continue to update the placement of Fact Sheets in Public Facilities, prepare and fund Household Hazardous Waste Days during this reporting period..	Town developed an IDDE Stormwater Hotline including posters and convenient business cards for easy notification of possible illicit discharges.	Maintain and Monitor Pollution Hotline
Revised					
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 13 (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 has retained a consultant to assist development of the NOI for the new NPDES Permit to be issued in 2016. The DPW and Conservation Commission continues to inventory structural storm water technologies within the Town .	New Permit to be issued in 2016  Town to develop new Stormwater Bylaws and Regulations  Upgrade IDDE Program, outfall inventory and monitoring protocol.
Revised					
4-2	Stormwater Regulations	Planning Board	Review of Subdivision Regulations relative to stormwater control during construction.	Retain consultant to review existing and develop new Stormwater Bylaws and Regulations.	
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.  New "Don't Let Pollution Go Down The Drain" posters and business cards provided to engineers and contractors for posting in their place of business.	Develop new Stormwater Bylaws and Regulations. Develop upgraded IDDE Program.
Revised					
Revised					
Revised					

Revised					
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**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 13 (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.	Retained consultant to review and upgrade current stormwater bylaws and regulations.. The Town's Environmental Affairs Coordinator monitors all construction related activities.	New Permit to be issued in 2016  Develop new Stormwater Bylaws and Regulations.
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 facilities, and provide fully operational system prior to the release of any lot for sale.	
Revised					

**5a. Additions**

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## 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
6-1	Employee Training	DPW	Provide employee training in conjunction with 40 CFR 112 program.	DPW provides staff training on Storm Water Good Housekeeping. The DPW retained a consultant to provide good housekeeping training in municipal facilities. SPCC training was performed in 2015 by Tighe & Bond to all field personnel on “Good Housekeeping Methods”. Examples of daily maintenance procedures and equipment inspections will be presented.	Continue Good Housekeeping Training Program
Revised				Director of Public Works routinely reviews sites with Department Heads to identify potential areas of concern.	
6-2	O&M Program	DPW	Implementation of O&M program designed to reduce and or eliminate the discharge of pollutants from various DPW facilities.	DPW Highway Division has purchased salt brine production equipment. In 2014, the Town continued with a salt brine pretreatment program that will reduce the volume of salt used for snow and ice operations. available to the community. . The new snow and ice	DPW will continue to equip snow and ice equipment with brine treatment equipment.  DPW to send 4 employees to APWA Snow & Ice Training in 2016

Revised				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, 2 staff employees have become certified in winter snow operations. The Town has requested a new vacuum sweeper. The 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	DPW to procure new sweeper in 2016.
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 will service all Vortec Units with the Vac-All The Town has cleaned all catch basins in Town under private contract on an annual basis..	The Town will continue the complete sweeping of Town streets on an annual basis.
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – New Permit
7-1	BMP's for TMDL Reduction	DPW	Review of DRAFT Final Apponagansett Report in progress.	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.	Complete the review of the DRAFT Final Apponagansett Bay in 2016.
Revised				The Town continues to uses Vacum Truck for servicing stormwater facilities. DPW requests new street sweeper.	
Revised					

**7a. Additions**


**7b. WLA Assessment**

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

- The Town is reviewing the DRAFT Final Apponagansett Bay Nutrient Threshold Technical Report from UMass.. Comments on the Final Apponagansett Bay Report will be submitted once the review is complete.. Upon receipt of all reports, the Town will request a meeting with UMass, the Coalition for Buzzard's and the Loyd Center to discuss the report findings and recommendations.
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- The Town Board of Health and Department of Public Works continue to respond and inspect all potential sources of illicit discharge when applicable.
- The Town implemented a "Cigarette is Litter Prevention" campaign during July 2011. The program will continue in 2016. The program includes the installation of "cigarette litter is trash" posters that are placed at major traffic intersections during the month of July. The Town also held the sixth annual Community Clean Up Day in 2015, the Clean Up Day is scheduled for April 23, 2016 and will utilize residents and community groups to collect litter. DPW staff will collect all litter at designated drop off locations.
- The Town continued to maintain the Vortec 9000 storm water unit installed 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, fortunately funding for this unit installation has been received and the unit is scheduled for installation in 2016. 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 DRAFT Final Apponagansett Bay Reports was received by the Town and is currently under review.
- 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 plans to purchase a new vacuum street sweeper in 2016 and additional salt brine equipment has been installed on all dispensing units 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 <sub>2</sub> % MgCl <sub>2</sub> % 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)	

