

Rec'd  
5/5/10

**Municipality/Organization:** Dartmouth, Massachusetts

**EPA NPDES Permit Number:** MAR041102

**MaDEP Transmittal Number:** W-

**Annual Report Number**

**& Reporting Period:** No. 7: March 09-March 10

## 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:**



**Printed Name:** David Cressman

**Title:** Executive Administrator

**Date:** April 26, 2010

## **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 7 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Planned Activities – New Permit |
|----------------|---------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1-1<br>Revised | Partnerships<br><i>Install tributary signage.</i> | DPW, BOH<br>Planning          | Partnerships, Press releases, distribute<br>Maintain and replace as necessary tributary signs.           | The Board of Health worked with DEP Stream Assessment Study group to monitor and identify 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 has received the Final Report, extended the contract deadline, and is currently reviewing the content of the report. The Town met with UMass to review comments and has formed a Nitrogen Management Committee. 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. | .                               |
| 1-2            | Educational Materials                             | DPW, BOH                      | Distribute Fact Sheets to municipal buildings, Paint winning "Storm Drain Stencil" in designated areas.. | The Town continues to provide Storm Drain Information via fact sheets at various locations throughout the Town. The Town utilized Highway Division laborers to install new cigarette dispensers and public notices as part of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |

|                |                            |          |  |                                                                                                                                                                                                                                                                                                                                                                        |  |
|----------------|----------------------------|----------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Revised        |                            |          |  | the "cigarettes are liter" campaign. Notices were posted at major traffic intersections and at public access waterway locations. 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.<br>Storm Water Good Housekeeping Training was performed for DPW workers. |  |
| 1-3<br>Revised | Reaching Diverse Audiences | DPW, BOH |  | The "cigarette are liter" campaign included adding "inserts" in all water/sewer bills to reach a diverse audience. The program was presented 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 7 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                        | Planned Activities – New Permit |
|----------------|-----------------------------|-------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 2-1<br>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 2009 was not possible.                                                              |                                 |
| 2-2<br>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.<br><br>The Town continued year 2 of a community clean up day consisting of multiple groups and assistance from the DPW Highway Division. |                                 |
| Revised        |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
| Revised        |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
| Revised        |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
| Revised        |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
| Revised        |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
|                |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
|                |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |
|                |                             |                               |                                                     |                                                                                                                                                                                                                                                                                   |                                 |

[illegible]

## 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 7 (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. Utilize Buzzards Bay National Estuary Program data and Stormwater Discharge Atlas                                                                                                                                       | Reviewed and update mapping as required through the DPW Engineering Division and the Conservation Commission.<br><br>Due to a lack of funding, the Town has halted additional effort on GIS drainage plan upgrades for 2009. Town will continue to utilize the Atlas of Stormwater Discharges in Buzzards Bay Watershed as the base drainage plan for the community.                                                                                                                                                                                                                                                      |                                 |
| Revised  |                                |                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |
| 3-2      | Legal Prohibited – Enforcement | BOH, ConCom                   | Continued review and upgrading of existing stormwater related bylaws. Restrict feeding of geese. 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. | Stream Assessment Study group to collect and review data identifying potential areas of illicit discharge. 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.<br><br>The Department of Public Works did not uncover any illegal connections to the storm drain system in Year 7.<br><br>DPW will be installing a Vortec 9000 Unit in the Padanaram Harbor watershed to reduce TSS impacting the bay. |                                 |
| Revised  |                                |                               |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |

|         |                       |              |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|---------|-----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3-3     | Detection Plan        | BOH,DPW      | Water quality testing and monitoring.                                                                                                                        | The Town granted an extension to the contract with UMass for the Turn the Tide Program. The Town is currently reviewing the DRAFT 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. |  |
| Revised |                       |              |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 3-4     | 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 |                       |              |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 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 7<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                        | Planned Activities – New Permit |
|----------------|------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 4-1<br>Revised | 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..<br>Conservation Commission continues to inventory structural storm water technologies within the Town .<br>Continued the review of standards for Stormwater related to the construction of residential and commercial developments. |                                 |
| 4-2<br>Revised | 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.                                                                                                                                                                                                                        |                                 |
| 4-3<br>Revised | 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 7<br>(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 Bylaw upgrades in preparation for Town Meeting. Consultant continues the review of all Notice of Intents involving the construction of drainage facilities and drainage calculations. |                                 |
| Revised  |                                 |                               |                                                                                                                  |                                                                                                                                                                                                                                                                                                      |                                 |
| 5-3      | Subdivision 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

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## 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 7<br>(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 has conducted staff training on Storm Water Good Housekeeping. The DPW utilizes a new training videos for good housekeeping training. SPCC training will be performed 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. |                                 |
| Revised  |                   |                               |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                        |                                 |
| 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 eliminated the use of road sand for snow & ice operations. The new snow and ice procedures have dramatically reduced the volume of sand collected in catch basins and discharged to streams and the bay. Operators have ongoing training                                                                                          |                                 |

|         |                     |     |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|---------|---------------------|-----|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Revised |                     |     |                                                        | on the proper procedures for delivery of salt to roadway, DPW has requested funding for the liquid treatment of the salt (brine) in order to reduce the volume of salt required . 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.<br>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 7 (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.<br><br>The Town continues to uses new Vacuum Truck for servicing stormwater facilities. |                                 |
| Revised  |                          |                               |                                                      |                                                                                                                                                                                                                                                                                            |                                 |
| 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. The report is currently under review by the Town. 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 worked with DEP on the Stream Study Assessment to identify sources of illicit discharge.
- The Town implemented a "Cigarette is Liter" campaign including the installation of cigarette dispensers, and held the second annual Community Clean Up Day.
- The Town will be installing a Vortec 9000 storm water unit to service a large watershed to the Padanaram Harbor.
- The Coalition for Buzzards Bay, and the University of Massachusetts on the Turn the Tide Project is a commitment by the Town to protect it's most natural asset by restoring the health and vitality of Dartmouth's waters. This is the final year of the project.
- The DPW Highway Division has continued to maintain and replace damaged or missing storm water logo and tributary signs.
- The program continues publicized the local estuary project 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 and salt brine equipment to reduce the impact snow & ice operations have on the environment.
- Conservation Commission continues to categorize structural storm water units in Town.