

MAY 20 2009

Municipality/Organization: Town of Carver

EPA NPDES Permit Number: MAR041099

MaDEP Transmittal Number: W-050154

Annual Report Number  
& Reporting Period: No. 6: April 2008-March 2009

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Bill Halunen Title: Superintendent of Public Works

Telephone #: 508-866-3425 Email: William.Halunen@carverma.org

#### 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: William A. Halunen

Printed Name: WILLIAM A. HALUNEN

Title: D.P.W. SUPERINTENDENT

Date: MAY 13, 2009

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

The Town of Carver has made progress towards maintaining compliance with various components of the 2003 MS4 Stormwater Discharge Permit. Public education, outreach and participation have been on-going during the period through March 2009 (referred to as Permit Year 6). The illicit detection and elimination (IDDE) program is on-going. Regulations have been developed by the Board of Health and the Town has drafted an IDDE and construction Best Management Practices (BMP) manual. DPW follows good housekeeping practices and keeps the storm drain system clean of debris.

The Town continues to monitor the websites of regulatory agencies for the issuance of the 2009 Small MS4 General Permit. Once the 2009 General Permit is issued, the Town will evaluate the new requirements and identify the highest priority construction projects. The Town intends to prepare a Notice of Intent for coverage under the 2009 General Permit.

### 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 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                             |
|-----------------|------------------------------|-------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PE-1<br>Revised | Flyer Distribution           | DPW                           | Once per year at Hazardous Waste Day Regularly at Town Buildings             | Flyers are distributed annually to advertise the household hazardous waste day. Flyers regarding proper protection of outfalls and catchbasins are available regularly at town buildings. |
| PE-2<br>Revised | Informational Mailings       | DPW                           | Houses adjacent to outfalls<br>1 per year to all houses adjacent to outfalls | The Town continued to send informational mailings. See attached public outreach materials.                                                                                                |
| PE-3<br>Revised | Community Group Meetings     | DPW                           | Regular meetings                                                             | Superintendent of Public Works briefs the Board of Health and Conservation Commission at regularly announced meetings. Such meetings are open to the public.                              |
| PE-4<br>Revised | Public Service Announcements | DPW                           | Cable Access Ads for Events                                                  | Program continued. Public service announcements related to stormwater meetings, hazardous waste days, recycling, cleanup day, etc. were placed on cable access TV.                        |

# 1. Public Education and Outreach (continued)

| BMP ID #        | BMP Description          | Responsible Dept./Person Name | Measurable Goal(s)                                                                        | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                       |
|-----------------|--------------------------|-------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PE-5<br>Revised | Information Distribution | DPW, Board of Health          | <div>Posts on Town website</div> <div>Minimum of one post per year on town website.</div> | Mailings are sent to all members of the Carver, Marion, Wareham Regional Refuse Disposal District (CMWRRDD) announcing the schedule for Household Hazardous Waste Collection Days. The Carver Board of Health continued to send mailings related to stormwater management and wetlands protection. Informational postings regarding stormwater and environmental issues continue to be updated on the Town Website. |

## 1a. Additions

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## 2. Public Involvement and Participation

| BMP ID #        | BMP Description              | Responsible Dept./Person Name | Measurable Goal(s)                                                                    | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                  |
|-----------------|------------------------------|-------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PP-1<br>Revised | Storm Drain Stenciling       | DPW                           | All storm drains in areas of concern<br>All storm drains by end of Year 3<br>Annually | All storm drains in the Town of Carver were stenciled in the original 5 year permit term. Work continues as stenciling need to be maintained.                                                                                                                                                                                                                  |
| PP-2<br>Revised | Hazardous Waste Day          | DPW<br>Working with BOH       | Annually                                                                              | Hazardous Waste Day was held the first weekend in May 2008. These programs were sponsored through the Carver, Marion, Wareham Regional Refuse Disposal District (CMWRRDD). CMWRRDD continues to inform residents of opportunities to dispose of household hazardous wastes. Another Household Hazardous Waste Day is planned for May 2, 2009 (see attachment). |
| PP-3<br>Revised | Volunteer Monitoring Efforts | DPW                           | Annually                                                                              | All residents are encouraged to report problems in the storm drain system. Local cranberry farmers have a special interest in proper functioning of the storm drain system and are quick to report problems. DPW responds to reports immediately.                                                                                                              |
| PP-4<br>Revised | SWMP Volunteer Review        | DPW                           | Annually                                                                              | The Town of Carver presents current Stormwater management activities to relevant department heads and employees on an annual basis, including regular public and private meetings.                                                                                                                                                                             |

### 2a. Additions

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### 3. Illicit Discharge Detection and Elimination

| BMP ID #        | BMP Description               | Responsible Dept./Person Name | Measurable Goal(s)                 | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                              |
|-----------------|-------------------------------|-------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ID-1<br>Revised | Visual Inspection             | DPW, Board of Health          | All outfalls quarterly             | All outfalls are continuously monitored by DPW staff, with a goal of inspecting all outfalls quarterly. Outfalls in problem areas were monitored more frequently.<br><br>Board of Health has a pond testing program. Four area ponds (Sampson's, Cooper's, John's, and Crystal) are monitored weekly for E. Coli from May through September.<br><br>DPW staff will continue to routinely monitor outfalls. |
| ID-2<br>Revised | Laboratory Analysis           | DPW                           | When pollution is evident          | A problem at local gas station identified in Permit Year 1 has resulted in the site being assigned a DEP tracking number, RTN 4-17825. Monitoring is ongoing at this site. If DPW staff suspects pollutants in outfalls (see ID-1) sampling and additional monitoring will be performed.<br><br>No new problem outfalls were identified in Year 6.                                                         |
| ID-3<br>Revised | Identify and Map all outfalls | DPW                           | Map and ID all outfalls in the UA. | All outfalls in the Urbanized Area were mapped in Year 1.<br><br>The entire drainage system was modeled in GIS in the original 5 year permit term. Carver continues to maintain and update maps as appropriate.                                                                                                                                                                                            |

### 3. Illicit Discharge Detection and Elimination (Continued)

| BMP ID #        | BMP Description              | Responsible Dept./Person Name | Measurable Goal(s)        | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                             |
|-----------------|------------------------------|-------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ID-4<br>Revised | Remove source of contaminant | DPW                           | When pollution is evident | Remediation efforts are being monitored by DEP.<br>No new sources of contaminants have been identified.<br>The Town has continued to sample outfalls to identify illicit sources when pollution is suspected. The Town has and will continue to remove sources when pollution is confirmed in an outfall. |
| ID-5<br>Revised | Develop and enact by-law     | DPW                           | By end of year 2          | The Town adopted a bylaw governing discharges to the storm drain system.<br>The Board of Health passed storm water regulations in October 2003. The Planning Board put forth new stormwater regulations in May 2007 which were adopted at the Town Meeting.                                               |

### 3a. Additions

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#### 4. Construction Site Stormwater Runoff Control

| BMP ID #        | BMP Description                                                                         | Responsible Dept./Person Name                              | Measurable Goal(s)                                                                                                                                                                        | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                              |
|-----------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS-1<br>Revised | Develop By-laws<br><i>Review Current By-law<br/>Develop New By-law if<br/>necessary</i> | DPW                                                        | By end of Year 2 have by-law in place<br>Review annually, make amendments as needed                                                                                                       | In Year 1 the Town reviewed existing mechanisms and determined them to provide adequate authority to regulate construction site erosion and post-construction stormwater management.<br><br>Continued previous permit year activities.                                                                                                                                     |
| CS-2<br>Revised | Pre-Construction Information Meetings<br><i>Provide Pre-Construction Information</i>    | DPW<br><br>Conservation Commission and Planning Department | 1 meeting per construction after by-law implementation<br>Letters from developer to both Conservation Commission and Planning Department outlining conditions of construction activities. | Order of Conditions is issued by the Conservation Commission of the Town for any construction project within 100 feet of a wetland of any size.<br><br>Order of Construction Conditions issued by Planning Department to the contractor. Per the new by-laws, the town includes stormwater regulations as appropriate as part of the Planning Department approval process. |

#### 4a. Additions

|      |                  |                                                    |                                                 |                                                                                                                                                                                                                                                                                                                                         |
|------|------------------|----------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS-3 | Site Inspections | Conservation Commission and/or Planning Department | Minimum 1 site visit per construction activity. | Conservation Commission and the Town Engineer conducted random site visits to inspect construction activities to ensure construction conditions are being met. In permit year 6, the Planning Department approved projects with construction conditions, each of which were inspected by the Conservation Commission and Town Engineer. |
|------|------------------|----------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                 |
|-----------------|--------------------------|----------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PC-1<br>Revised | Visual Monitoring        | DPW<br>Conservation Commission and Planning Department as necessary. | 1 visit following completion of project. | Conservation Commission, DPW and Planning Department conduct post construction inspections. A certificate of compliance is issued by the Conservation Commission upon completion of construction in accordance with the Order of Conditions on projects they are involved in. |
| PC-2<br>Revised | Post-construction By-law | DPW                                                                  | By end of Year 2 have by-law in place.   | A Post-construction By-law was adopted at the May 21 2007 Town Meeting.                                                                                                                                                                                                       |

### 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 6<br>(Reliance on non-municipal partners indicated, if any)                                                               |
|-----------------|-------------------------------------------|-------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GH-1<br>Revised | Employee Training                         | DPW                           | Annually                           | Carver will continue to identify opportunities for employee education and training relating to protection of water quality. Records of attendance are kept. |
| GH-2<br>Revised | Operations and Maintenance Schedule       | DPW                           | Complete by end of Year 1          | Completed in Year 1. Town continued to adhere to schedule.                                                                                                  |
| GH-3<br>Revised | Operations and Maintenance Implementation | DPW                           | Follow Schedule Years 2 through 6. | DPW adheres to schedule (see GH-2) and keeps records.                                                                                                       |
|                 |                                           |                               |                                    |                                                                                                                                                             |
|                 |                                           |                               |                                    |                                                                                                                                                             |

6a. Additions

| BMP ID # | BMP Description                          | Responsible Dept./Person Name | Measurable Goal(s)                               | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                        |
|----------|------------------------------------------|-------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GH-5     | Proper Storage of Materials              | DPW                           | All materials labeled and in suitable containers | DPW continued to store materials in a manner that reduces or eliminates threats to water quality from stormwater.                                                                                                    |
| GH-6     | Catch Basin Cleanout                     | DPW                           | Regular maintenance and cleanout of catchbasins  | Carver DPW has an annual catch basin clean out program using town-owned equipment. In addition, catch basins are cleaned on an as-needed basis. Cleanout logs are maintained. Problems are noted and followed-up on. |
| GH-7     | Storm Sewer Maintenance and Improvements | DPW                           | Improvements to storm sewer infrastructure       | The DPW refurbished 10 catch basins in the monitoring period and installed a new culvert on Mayflower road.                                                                                                          |

**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**

There are no TMDLs in Carver

**7a. Additions**

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**7b. WLA Assessment**

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

Not used