

Earth Tech AECOM

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August 13, 2008

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Mr. William A. Halunen, Public Works Director
Town of Carver
Department of Public Works
108 Main Street
Carver, MA 02330

RE: NPDES Phase II Stormwater Annual Report

Dear Mr. Halunen:

Attached are three copies of Carver's NPDES Phase II Annual Report and optional supporting documents. Copies must be signed by either the municipality's principal executive officer or ranking elected official.

Mail one signed copy and attachments to:

U.S. Environmental Protection Agency
Water Technical Unit
PO Box 8127
Boston, MA 02114

Mail one signed copy and attachments to:

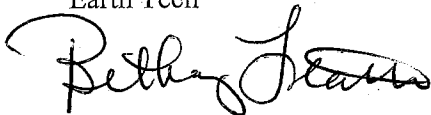
Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

One copy and attachments are to be retained in your files.

We commend you on your efforts to adhere to the requirements of your general permit for stormwater discharges and look forward to continuing to assist the Town with protecting and improving local water quality. Please do not hesitate to contact me if you have any questions or comments.

Sincerely,

Earth Tech



Bethany Leavitt, P.E.
Project Manager

Municipality/Organization: Town of Carver

EPA NPDES Permit Number: MAR041099

MaDEP Transmittal Number: W-050154

AUG 19 2008

**Annual Report Number
& Reporting Period:** No. 5: March 2007-March 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: WILLIAM A. HALONEN **Title:** D.P.W. SUPERINTENDENT

Telephone #: 508-866-3425 **Email:** WILLIAM.HALONEN@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. Halonen

Printed Name: WILLIAM A. HALONEN

Title: DEPARTMENT OF PUBLIC WORKS SUPT.

Date: 8/18/08

Part II. Self-Assessment

The Town of Carver has make progress towards meeting various components of the NPDES Phase II Storm Permit. Public education, outreach and participation have been on-going throughout the permit year. The elimination (IDDE) program is on-going, stormwater regulations have been developed by the Board of Health. The town has drafted an IDDE and construction By-law. Each year, the DPW follows good housekeeping practices and the drain system clean of debris.

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 5 (Reliance on non-municipal partners indicated, if any)
PE-1 Revised	Flyer Distribution	DPW	Once per year at Hazardous Waste Day	Hazardous Waste Day was held in May 2007. 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.
PE-2 Revised	Informational Mailings	DPW	Houses adjacent to outfalls 1 per year to all houses adjacent to outfalls	The Town continued to send informational mailings.
PE-3 Revised	Community Group Meetings	DPW	1 Meeting per year	
PE-4 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 5 (Reliance on non-municipal partners indicated, if any)
PE-5	Information Distribution	DPW	Posts on Town website	Mailings are sent to all members of the 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.
Revised			Minimum of one post per year on town website.	

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)
PP-1	Storm Drain Stenciling	DPW	All storm drains in areas of concern	Carver will work with local youth groups, including Scouts, to identify future opportunities.
Revised			All storm drains by end of Year 3	
PP-2	Hazardous Waste Day	DPW	Annually	A Household Hazardous Waste Day was held in May 2007
Revised		Working with BOH		
PP-3	Volunteer Monitoring Efforts	DPW	Annually	Residents, especially the cranberry farmers, are quick to report problems in the storm sewer system. DPW responds to reports immediately.
Revised				
PP-4	SWMP Volunteer Review	DPW	Annually	The Town of Carver presents current Stormwater management activities to relevant department heads and employees on an annual basis.
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 5 (Reliance on non-municipal partners indicated, if any)
ID-1	Visual Inspection	DPW	All outfalls quarterly	All outfalls are continuously monitored by DPW staff. All outfalls were monitored quarterly on average. Outfalls in problem areas were monitored more frequently.
Revised				Board of Health has a pond testing program to ensure safe waters for swimming. DPW staff will continue to routinely monitor outfalls.
ID-2	Laboratory Analysis	DPW	When pollution is evident	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.
Revised				No new problem outfalls have been identified. Monitoring has continued at gas station. If DPW staff suspects pollutants in outfalls (see ID-1) sampling and additional monitoring will be performed.
ID-3	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.
Revised				The Town is in the process of putting the entire drainage system into GIS. Carver will 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 5 (Reliance on non-municipal partners indicated, if any)
ID-4	Remove source of contaminant	DPW	When pollution is evident	Remediation efforts are being monitored by DEP.
Revised				No new sources of contaminants have been identified. The Town has continued to sample outfalls to identify illicit sources. The Town has and will continue to remove sources when pollution is confirmed in an outfall.
ID-5	Develop and enact by-law	DPW	By end of year 2	The Town adopted a bylaw governing discharges to the storm drain system.
Revised				The Board of Health passed storm water regulations in October 2003. The Planning Board put new stormwater regulations in May 2007 and Town Meeting adopted. No Action Required in Permit Year 5

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 5 (Reliance on non-municipal partners indicated, if any)
CS-1	Develop By-laws	DPW	By end of Year 2 have by-law in place	No action.
Revised	<i>Review Current By-law Develop New By-law if necessary</i>		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 Continued previous permit year activities.
CS-2	Pre-Construction Information Meetings	DPW	1 meeting per construction after by-law implementation	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.
Revised	<i>Provide Pre-Construction Information</i>	Conservation Commission and Planning Department	1 Letter each Conservation Commission and/or Planning Department outlining conditions of construction activities.	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 5, the Planning Department approved projects with construction conditions, each of which were inspected by the Conservation Commission and Town Engineer.
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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 5 (Reliance on non-municipal partners indicated, if any)
PC-1	Visual Monitoring	DPW	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.
Revised		Conservation Commission and Planning Department as necessary.		
PC-2	Post-construction By-law	DPW	By end of Year 2 have by-law in place.	A Post-construction By-law has been drafted for the Town of Carver and will go to the next Town meeting for approval.
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 5 (Reliance on non-municipal partners indicated, if any)
GH-1	Employee Training	DPW	Annually	Carver will continue to identify opportunities for employee education and training relating to protection of water quality.
Revised				
GH-2	Operations and Maintenance Schedule	DPW	Complete by end of Year 1	Completed in Year 1. Town continued to adhere to schedule.
Revised				
GH-3	Operations and Maintenance Implementation	DPW	Follow Schedule Years 2 through 5.	DPW adheres to schedule (see GH-1)
Revised				
GH-4		DPW	For each GH BMP employed	Records of educational attendance and vehicle maintenance are kept. Carver continued to maintain records
Revised				
Revised				

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (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 annually cleanouts out catchbasins with town-owned equipment. 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 replaced several sections of storm drain pipe during Permit Year 5. In addition more than 12 outfalls along route 58 were repaired and new rip rap installed.

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

There are no TMDLs in Carver

7a. Additions

7b. WLA Assessment