

Municipality/Organization: Town of Carver

EPA NPDES Permit Number: MAR041099

MassDEP Transmittal Number: W- 050154

Annual Report Number

& Reporting Period: Year 10 April 1, 2012 – March 31, 2013

NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2013)

Part I. General Information

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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: William A. Halunen

Title: Superintendent of Public Works

Date: May 1, 2013

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Part II. Self-Assessment

The Town of Caver continues to make progress towards maintaining compliance various components of the 2003 NPDES Phase II Stormwater Discharge Permit. Public education, outreach and participation have been on-going during the period of April 2012 through March 2013 (referred to as Permit Year 10). The illicit discharge detection and elimination (IDDE) program is on-going, stormwater regulations have been developed by the Board of Health and the Town has drafted an IDDE and construction By-law. Each year, the DPW follows good housekeeping practices, upgrades drainage system as needed, and keeps the storm drain systems clean of debris.

The Town continues to monitor the EPA website for the issuance of the new Small MS4 General Permit. When this new General Permit is issued, the Town will evaluate the new requirements and identify the highest priority compliance issues. The Town is aware that EPA is currently revising the two draft Massachusetts draft permits and anticipates re-issuing a single new draft permit for all Massachusetts watersheds in 2013; and that a Notice of Availability for the new draft MS4 general permit for Massachusetts will be published in the Federal Register as well as information about any scheduled public meetings or hearings.

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
PE-1	Flyer Distribution	DPW	Once per year at Hazardous Waste Day	Flyers are distributed annually to advertise the household hazardous waste day. Flyers regarding proper protection of outfalls and catch basins are available regularly at town buildings. Copies of the distributed fliers are attached to this reported.	Continue to publish and distribute flyers throughout the year
Revised			Regularly at Town Buildings		
PE-2	Informational Mailings	DPW	Houses adjacent to outfalls	The Town expects to complete mailing (or house to house distribution) of educational information pertaining to stormwater pollution to houses adjacent to outfalls by June 30, 2013. 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.	Continue to mail or distribute educational information to all members of the Carver, Marion, Wareham, Regional Refuse Disposal District, and to homes adjacent to drainage outfalls (see attached)
Revised			1 per year to all houses adjacent to outfalls		
PE-3	Community Group Meetings	DPW	Regular Meetings	Board of Health and Conservation Commission meetings are regularly announced and open to the public. The Superintendent of Public Works attends such meetings upon request.	Continue to announce and have Board of Health and Conservation Commissions open to the public.
Revised				Carver's Community Access Television (CCAT) program continued on public	
PE-4	Public Service Announcements	DPW	Cable Access Ads for Events		Continue to post Public service announcements on Community

Revised				access channels 13, 14 & 15. Public service announcements related to stormwater meetings, hazardous waste days, recycling, cleanup day, etc. were placed on cable access TV. Program listings are available at the channel's website: http://www.ccat.cc/	Access Television.
PE-5	Information Distribution	DPW, Board of Health	Posts on Town website	Informational postings regarding stormwater and environmental issues continue to be updated at on the Town website: http://www.carverma.org/	Continue to post information regarding stormwater and environmental issues on the Town's website
Revised			Minimum of one post per year on town website.	Announcements for regular Town Meetings are posted on the Town's website, along with meeting minutes for special department meetings, such as the Planning Board and Conservation Commission. There are two transfer stations that serve the Town of Carver: Rochester Convenience Facility and Benson Brook Road Transfer Station in Marion. Information about these transfer stations is posted on the Town website. Copies of such postings are attached to this report.	Continue to announce Town Meeting's on the Town's website and also post minutes of each meeting on the website. Continue to update and post information regarding the two transfer stations on the Town's 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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
PP-1	Storm Drain Stenciling	DPW	All storm drains in areas of concern	All storm drains in the Town of Carver were stenciled in the original 5 year permit term. The Town continues to monitor the condition of the stenciling regularly. The DPW is aware of the need to inspect stencils this year and repaint as necessary.	The DPW inspects and re-stencils storm drains as necessary
Revised			All storm drains by end of Year 3		
PP-2	Hazardous Waste Day	DPW	Annually	Hazardous Waste Day is typically held on the first Saturday in May every year. During Permit Year 10, the Hazardous Waste Day was held May 5, 2012.	Continue with organized cleanup days. Hazardous Waste Day will be held May 4, 2013 for permit year 11
Revised		Working with BOH		Plymouth County Conservation District also held an Electronics Recycling Day at the Wareham Municipal Maintenance Department in Wareham on May 5, 2012.	Plymouth County Conservation District will hold an Electronics Recycling Day at the Wareham Municipal Maintenance Department in Wareham on May 4, 2013.
				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. Advertisements for the event are attached to this report.	Continue to inform the public with information regarding household hazardous wastes.
PP-3	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. It is a priority of the DPW to quickly respond to reports.	Continue to encourage residents to report problems with the storm drain system.
Revised					

PP-4	Stormwater Monitoring Program (SWMP) Volunteer Review	DPW	Annually	The Town of Carver continues to present current Stormwater management activities to relevant department heads and employees on an annual basis, including regular public and private meetings.	Update and continue training
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
ID-1	Visual Inspection	DPW, Board of Health	All outfalls quarterly	All outfalls are monitored by DPW staff on a regular basis of every 6 months.	DPW staff will continue to routinely monitor outfalls.
Revised				Outfalls in problem areas were monitored more frequently.	
				Carver's 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 each year. No bacterial issues found.	BOH will continue its pond testing program.
ID-2	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 Mass DEP tracking number, RTN 4-17825.	DPW will continue to monitor the remediation activity at the gas station (RTN 4-17825).
Revised				Monitoring is ongoing at this site. Tests are available at the Board of Health. No drainage impacts at outfall found.	
				No new problem outfalls were identified in Permit Year 10.	
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 Permit Year 1.	Carver continues to maintain and update maps as appropriate.
Revised				The entire drainage system was modeled in GIS in the original 5 year permit term. Carver continues to maintain and update maps as appropriate.	
ID-4	Remove source of contaminant	DPW	When pollution is evident	Report Remediation efforts to the DEP.	The DPW will continue to monitor outfalls to identify illicit sources

Revised					No new sources of contaminants have been identified in the Town in Permit Year 10. The Town has continued to sample outfalls to identify illicit sources when pollution is suspected.	when pollution is suspected and will also continue to remove sources when pollution is conformed in an outfall.
ID-5	Develop and enact by-law	DPW	By end of year 2		The Board of Health passed storm water regulations in October 2003 The Town's "Stormwater Management and Land Disturbance Bylaw" was adopted at the May 2007 Town Meeting. (See attached ATM minutes) that apply to all activities disturbing one or more acres of land that drains to the Towns MS4 In June 2011 the Town amended the General Bylaw governing discharges to the storm drain system. (See attached ATM minutes) A DPW request for funding to implement the "Illicit Connections and Discharges to Municipal Storm Drain System Bylaw" passed at the June 2012 Town Meeting. (See attached information on Article 19).	Continue to enforce regulations. See attached bylaws, and regulation documents. The DPW will develop a written program to detect and eliminate illicit discharges; written operation and maintenance procedures for all Town-owned facilities; a report of impervious areas in the MS4; an inventory of Town-owned facilities and floor drains, a program to repair and rehabilitate storm drains; a Stormwater Pollution Prevention Plan for maintenance garages and DPW facilities, and waste handling facilities; and a Town stormwater monitoring program.
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
CS-1	Develop By-laws	DPW	By the end of Year 2 have by-law in place	In Permit Year the Town reviewed existing mechanisms and determined them to provide adequate authority to regulate construction site erosion and post-construction stormwater management.	The Town will continue to implement and enforce by-law and also continue previous permit year activities.
Revised	Review Current By-law Develop New By-law if necessary		Review annually, make amendments as needed	(See bylaw & regulation references above)	
CS-2	Pre-Construction Information Meetings	DPW	1 meeting per construction after by-law implementation	The Conservation Commission and Planning Department are involved in all construction activities (new housing developments, road work, cranberry bogs, etc.)	Continue to enforce by-laws and regulations.
Revised	Provide Pre-Construction Information	Conservation Commission and Planning Department	Letters from developer to both Conservation Commission and Planning Department outlining conditions of construction activities.	Orders of Conditions are issued by the Conservation Commission of the Town for any construction project within 100 feet of a wetland of any size.	
				Orders of Construction Conditions are issued by Planning Department to the contractor. The Town requires that developers to submit a letter to the the Conservation Commission and Planning Board outlining all construction activities. 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	Minimum 1 site visit	Conservation Commission and the	Continue site inspections per by-law
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NPDES Phase II Small MS4 General Permit Annual Report No. 10

Town of Carver, Massachusetts

	Commission and/or Planning Department	per construction activity	Town's Engineer conducted random site visits to inspect construction activities to ensure construction conditions are being met. The Town enforces that there be a minimum of one site visit by the Conservation Commission per each construction activity.	requirements.
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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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
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.	Implement and enforce by-law.
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 was adopted at the May 21, 2007 Town Meeting.	Implement and enforce by-law.
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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 11
GH-1 Revised	Employee Training	DPW	Annually	Carver continues to identify opportunities for employee education and training relating to protection of water quality. Records of attendance are kept.	Continue training for all employees relating to protection of water quality.
GH-2 Revised	Operations and Maintenance Schedule	DPW	Complete by end of Year 1	Operations and maintenance schedule completed in Permit Year 1.	Update and continue Operations and maintenance schedule.
GH-3 Revised	Operations and Maintenance Implementation	DPW	Follow schedule Years 2 through 10	The Town conducts catch basin cleaning and outfall inspection on a yearly schedule; and more frequently in problem areas. DPW keeps up to date records of cleanings and inspections. The Town has approximately 1,000 catch basins; and the DPW cleans between 300-400 catch basins annually DPW cleaned about half the number of drainage easement areas of approved developments in Town (there are about 75 such drainage easements in total).	Continue catch basin cleaning and maintenance. Keep records of all catch basin cleaned at the DPW office Continue cleaning and maintenance of drainage easement areas in Town. Keep records of all drainage easements maintenance at the DPW office If possible, the DPW data on catch basin and drainage easement cleanings will be included into the Town's ArcGIS mapping of Town's drainage system.

6a. Additions

GH-5	Proper Storage of Materials	DPW	All materials labeled and in suitable containers	DPW stored materials in a manner that reduces or eliminates threats to water quality from stormwater.	Continue to store materials in a manner that reduces or eliminates threats to water quality
GH-6	Catch Basin Cleanup	DPW	Regular maintenance and cleanup of catch	Carver DPW has an annual catch basin clean out program using town-owned	Continue annual catch basin cleanup program

GH-7	Storm Sewer Maintenance and Improvements	DPW	basins	equipment. In addition, catch basins are cleaned on an as-needed basis. Cleanout logs are maintained. Problems are noted and followed-up on.	There were no infrastructure problems within the past Permit Year. The DPW will continue the replacement of aprons on outfalls and resetting or rebuilding of drainage structures on Route 58. DPW will continue to monitor the storm water system for any problems.
				The DPW continued replacement of aprons on outfalls and resetting of catch basins and drain manhole covers as part of work on Route 58; also continued clearing of vegetation and brush surrounding outfalls and in drainage easements.	

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

There are no TMDLs in Carver. See attached Waterbody Assessment and TMDL Status List and Map for Carver, MA