

Municipality/Organization: Avon, MA
EPA NPDES Permit Number: MAR041089
MassDEP Transmittal Number: W-044647
Annual Report Number & Reporting Period: Year 13
April 1, 2015 – March 31, 2016

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2016)

Part I. General Information

Contact Person: William A. Fitzgerald, Jr. Title: DPW Director

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Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: 

Printed Name: William A. Fitzgerald, Jr.

Title: DPW Director

Date:

Part II. Self-Assessment

The following program highlights demonstrate Avon's commitment to a robust local stormwater management program:

In 2015, the Town was awarded a \$10,000 Water Infrastructure Planning and Technical Assistance Grant by the Massachusetts Department of Environmental Protection (MassDEP) to assist in its work to implement a stormwater operations and asset management system. This work includes creating a GIS stormwater layer at a utility scale level of accuracy, and extending the Town's existing asset management tablet-based computer system, Utility Cloud, to include stormwater. Additionally, this project includes condition assessment and preliminary Illicit Discharge Detection and Elimination (IDDE) components. Work has been started and will be completed during summer 2016.

Furthermore, Avon recognizes the impact stormwater has not only on the environment but on the Town's drinking water; since almost all stormwater in Avon releases into the drinking water well Zone II's, and much of it flows through Zone I's, maintenance and performance of the stormwater system is as much a drinking water issue as a receiving water concern. To further this effort, during 2015 the Town applied for, and was awarded in January 2016, a Southeast New England Program (SNEP) Grant from the U.S. Environmental Protection Agency (EPA) and the New England Interstate Water Pollution Control Commission (NEIWPCC). This grant, titled "Examine Stormwater Pollution to Trout Brook", has allowed for the Town to take a comprehensive approach to addressing both stormwater and drinking water concerns. The project includes developing a Quality Assurance Project Plan (QAPP), identifying priority catchment areas, surveying the land use in priority areas, conducting outfall screening, and identifying and assessing structural Best Management Practices for selected catchments, and preparing conceptual designs for structural BMPs to reduce pollutants of concern. This grant supports and enhances the Town's overall stormwater management program.

An early initiative of the new DPW was to modernize the Town's snow operations and public safety BMPs. As sand can collect heavy metals, oil, grease and other automotive byproducts and transport those into the aquatic environment, as well as clog catch basins, fill stream beds, etc., the Town's snow operations were changed. Changes included:

- Eliminating use of sand (after 2013-2014 purchased stockpiles were depleted) except at extreme cold temperatures where salt would not be effective, and also some limited locations;
- Calibrating spreaders to control the amount of salt put down;
- Piloting an agricultural additive that allowed a normal amount of salt to be effective at lower temperatures that would require a great increase in the amount of salt per lane mile.

These approaches are believed to have greatly reduced environmental impacts of winter operations, while improving public safety.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
101	Stormwater Impacts Mailer	Selectmen	1 Town Wide Mailing	The stormwater impacts mailer has been included in town-wide Selectmen's mailing in previous permit years.	Continue to include in the Selectmen's mailing as budget allows.
Revised				In recent years, Town has provided information on pet waste pickup to dog owners when licenses are renewed.	
102	School Stormwater Science Project	TA/School Sup't	1 Class Science Project	Based on discussions with School/Town officials, this BMP is not feasible due to curriculum limitations.	Continue to work with the School department and Town officials
Revised		DPW			
103	Stormwater on Local Cable Access Show	Town Administrator	1 show on environmental/stormwater issues	Showed EPA/DEP stormwater programs on Avon local cable in pervious permit years.	Continue to air EPA/DEP info as budget allows.
Revised		DPW Director, Highway Foreman			
104	Youth Stream Cleanup	Town Administrator	Annual Stream Clean Up Day	Held in May 2015	Continue to hold annual Cleanup Day as budget and schedule allows.
Revised	Community Cleanup Day	Board of Health			

1a. Additions

105	Grant funded Public Ed and Outreach	DPW	N/A	This BMP was added in Permit Year 11 in anticipation of obtaining the 319 grant. This grant was not obtained and therefore this BMP is no longer included.	No further work planned.
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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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
201	Stormwater Management Task Force	Town Administrator	Establishment of Task Force	The implementation of the task force has been delayed and is anticipated to commence once a new permit is finalized.	Implement the working group once new permit is issued.
Revised		DPW Director			
202	Publicity of Stormwater related articles/hearings	Town Administrator	Public Announcements for all stormwater articles/hearing	All information (Conservation Commission/ATM meeting minutes, etc.) pertaining to stormwater and stormwater management are available on the Town's website	Continue to update website with relevant stormwater management information
Revised		DPW Director			
203	Science Contest sponsored by Business Association	Town Administrator	Stormwater Science Contest	Due to limited interest, the Science Contest was not sponsored during permit year 13.	No action planned at this time. The Business Association has other Town priorities.
Revised		DPW Director			

2a. Additions

204	Annual Town Meeting	DPW Director	Discuss Stormwater Management at Annual Town Meeting	DPW Director spoke at the Annual Town Meeting, and discussed the connection and importance of stormwater management and drinking water quality	Continue to speak at Town Meetings as appropriate to support ongoing stormwater and water quality projects and improvements.
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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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
301	Map Stormwater Sewer Infrastructure	Town Administrator and Highway Operations Manager	Completed GIS Map	Developed plan to begin mapping in 2015, begun April 2015. Norfolk County Mosquito Control provided GIS layers of ditches and streams. Pond St study area uploaded into Old Colony Planning Council (OCPC) GIS. Created stormwater asset layer to populate in the town's asset management program, Utility Cloud. Outfalls GPS complete April 28, 2015, with photos	Mapping begun with assistance of Old Colony Planning Council. Plan to continue through summer with Bridgewater State University intern.
Revised		DPW Director and Highway Foreman			
302	Education Flier on Basement Good Housekeeping Practices	Town Administrator and Board of Health	Town-wide mailing	During Permit Year 13, the Board of Health did not have the resources to implement this BMP.	Re-evaluate if the BOH has the resources to implement this BMP in Permit Year 14
Revised		TBD			
303	Illicit Discharge Hotline	Town Administrator and Highway Operations Manager	Establish Hotline	The Town is currently using existing phone lines. Residents call the Town Administrator, Board of Health and/or Conservation Commission regarding pollution, sewage breakouts from septic systems, etc.	Continue to field phone calls using existing Town lines.
Revised					
304	Illicit Discharge Bylaw	Planning Board	Bring By-Law before Town Meeting	The Fire Department, Board of Health, and Conservation Commission have authority to address illicit discharges.	Revisit authority under next general permit.
Revised					

3a. Additions

305	Annual Catch Basin Cleaning - IDDE Screening (See also 602)	DPW/Contractor	CB's cleaned and screened, obvious irregularities reported to DPW for follow up	Completed	To Complete

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
401 Revised	Construction Site E & SC Bylaw	Planning Board	Bylaw brought before Town Meeting	<p>The Planning Board has created an Erosion Control plan based on EPA's sample plan. Need to discuss further action with Planning Board</p> <p>Planning Board has enacted an in-house erosion control plan to deal with runoff at construction sites. Will continue to work on avenues in which to control runoff from existing sites.</p>	Revisit authority under next MS4 general permit.
402 Revised	Site Plan Review Amendment	Amendment Article brought before Town Meeting	Amendment Article brought before Town Meeting	The Planning Board has created an Erosion Control plan based on EPA's sample plan.	No further action planned.
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
501	Stormwater Management Bylaw	Planning Board	Bylaw brought before Town Meeting	Erosion Control plan created, based on the EPA’s sample control plan	Revisit authority under next MS4 general permit.
Revised				Planning Board has stringent recharge requirements.	
502	Site Plan Review Amendment	Planning Board	Amendment Article brought before Town Meeting	Erosion Control Plan created, based on EPA’s sample control plan	No further action planned.
Revised					
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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
601 Revised	Annual Street Sweeping	Highway Foreman with DPW Director	Sweep all Town streets once per year	Completed- all Town roads were swept at least once during Permit Year 13	Continue renting a broom sweeper and sweep all Town roads at least once during the year.
602 Revised	Annual Catch Basin Cleanout	Highway Department	Clean all catch basins once per year	Completed- all catch basins were cleaned during Permit Year 13	Continue contracting out yearly catch basin cleanings.
603 Revised	Environmental Assessment of Highway Maintenance Facility	Highway Operations Manager	Completed Assessment	Installed properly designed catch basin and oil water separator.	No further action planned. Work was completed to address findings of assessment.
604 Revised	Highway/Water Depts. Good Housekeeping Education	Highway Operations Manager and Water DPW Director, Highway and Water Foremen	At least 1 training for all Water/highway Dept. Staff Good housekeeping component of overall DPW staff training plan	Consultants were hired to audit the Departments. Containment and other BMPs are in place. The Town is currently addressing other items noted during the audit.	Develop overall DPW staff training plan with good housekeeping component under next MS4 general permit.
605 Revised	Environmental Assessment of Municipal Facilities	Town Administrator DPW Director	Completed Assessment	No activity completed during this permit year.	Determine if additional work is needed and address under new MS4 general permit.

606	Wastewater Management Plan	Board of Selectmen	Plan complete	A comprehensive wastewater management plan was started for Avon numerous years ago.	Plan still under review by the Massachusetts Department of the Environment. Significant investment was made to develop a long term plan to address present and future wastewater discharges, however, no further action is planned at this time and depends on budgets and political investment.
Revised					
Revised		Board of Selectmen/TA/DPW		Avon continues to participate in regional discussions about wastewater management that are ongoing through OCPC and DEP	
607	Drainage Assessment Brentwood Neighborhood	Board of Selectmen/	Evaluation of Phase II Continues	Project is two phases phases—Pond St that has been completed. The Brentwood Road portion design is planned for future.	Mapping and condition assessment of existing system planned.
		Board of Selectmen/TA/DPW			

6a. Additions

608	Snow Fighting Modifications	DPW	Operations consistent with plan	See Self-Assessment section for details; the use of sand has been phased out almost entirely.	Continue to modify and adjust snow operations as needed.
609	Training and tracking systems, safety Program	DPW	Plan implementation	Modified EMS includes more detail on good housekeeping Safety walkthrough by Workers' Comp group includes assessment of exposure to activities that may impact stormwater runoff and good housekeeping	Continue to implement and evaluate adding additional DPW operation areas Develop overall DPW staff training plan with good housekeeping component
610	Evaluate Sewering Industrial Park Area	Board of Selectmen/TA/DPW	Progress on evaluation	Consultant delineated wetlands in town owned land that is possible site for onsite treatment system for Industrial Park	Continue to evaluate if sewerage the Industrial Park Area of Town is feasible

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

Per the 2014 Draft Permit, Avon has stormwater discharges that discharge to waterbodies, or their tributaries, that are water quality limited due to nitrogen and/or phosphorus. Although none of these have an EPA approved TMDL, Avon recognizes the importance of addressing these impairments and, as part of the SNEP grant, is reviewing BMPs that could address these water quality limited waterbodies. The Town's water department is currently monitoring subsurface migration of various pollutants in the area of test well sites on the Brockton/Avon Town Line as well. In addition, Trout Brook located in Avon is a tributary of the Taunton River watershed which is subject to a TMDL approved in 2011 for pathogens.

The Town has been awarded the SNEP grant to investigate the sources of impairment in Trout Brook and will continue to work towards identifying and eliminating bacteria and pathogen sources into Trout Brook. The SNEP Grant was awarded to Avon in 2016 to develop a QAPP, identify priority catchment areas, survey the land use in priority areas, conduct outfall screening, and identify and assess structural Best Management Practices for selected catchments, and preparing conceptual designs for structural BMPs to reduce pollutants of concern.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities Year 14
Revised					
Revised					

7a. Additions

7b. WLA Assessment