

4/20/12

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Municipality/Organization: Town of Brookline, MA

EPA NPDES Permit Number: MARNEC813

MaDEP Transmittal Number: W-035336

Annual Report Number

& Reporting Period: No. 8: March 2010-March 2011

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Peter M. Ditto, P.E. **Title:** Director of Engineering and Transportation

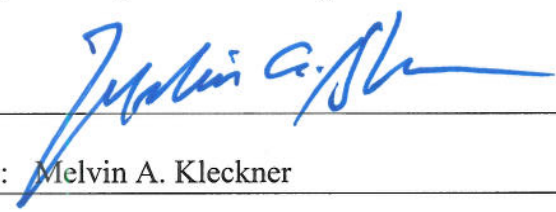
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Certification:

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: Melvin A. Kleckner

Title: Town Administrator

Date:

4/20/12

Part II.

II A. Self-Assessment

The Town of Brookline has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, accept Minimum Control Measure (MCM) #3 Illicit Discharge Detection and Elimination (IDDE). Sources of bacterial contamination have been found in some of the Town drains. Currently, the Town is working on an EPA approved IDDE program to reduce sources of bacterial contamination in storm drains. Summary data on the IDDE program is presented in Parts IV and V of this report.

In general, the overall goal for the Town's stormwater program is to improve the quality of water discharged from storm drains. The Town tracks improvements in water quality through stormwater sampling and inspections of various drains.

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
1A	Informational Brochures	DPW/Engineering	Distribute brochures	Brochures placed at DPW facilities.	Continue to distribute brochures
Revised			Estimate the number of brochures handed out		
1B	Town Stormwater Website	DPW/Engineering, IT Dept, and Con Comm	Develop Website	Maintained Website.	Update Website as needed.
Revised			Start a counter on the website to track the number of viewers		
1C	“Infoline”	DPW/Engineering	Set up “Infoline”	Maintained “Infoline”	Continue to handle calls
Revised			Personnel have been assigned to handle these calls		
1D	Stormwater email account	DPW/Engineering	Website has an email account so residents may ask questions	Maintained Stormwater email account.	Maintain email account
Revised			Log the number of emails.		

1E	Posters/Videos in Schools	DPW/Engineering and School Dept.	Education material for schools and libraries	"Reining in the Storm" at the Public Library.	Update posters and videos as needed.
Revised			Track the number of times the video is checked out.		

1a. Additions

1D					
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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
2A	Local Advertisements	DPW/Engineering	Annual Public Service Announcements	handouts placed at Town Hall	Continue to Distribute handouts
Revised			Count the number of handouts distributed.		
2B	Local Clean-ups	DPW, Con Comm, and local groups	Conduct Annual clean-ups around water resource areas.	DPW, Con Comm, and Local groups conducted annual clean-ups around Muddy River, Halls Pond, and other water resource areas.	Continue annual clean-ups.
Revised			Track the amount of materials cleaned-up (ex. Bags of trash).		
2C	Community "Hotline"	DPW/Engineering	Create "Hotline"	"Hotline" maintained by DPW/Engineering.	Continue to Maintain "Hotline"
Revised			Personnel have been assigned to handle these calls		
2D	Storm Drain Stenciling Program	DPW/Parks and Con Comm	Maintain Storm Drain Stenciling Program	Conducted annual stenciling	Continue stenciling program
Revised			Track number of basins stenciled.		

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
3A	Storm Drain System Map	DPW/Engineering and GIS dept.	Maps have been created	Updated maps	Continue to update GIS maps as needed based on changes and drain system.
Revised					
3B	Illicit Discharge Detection and Elimination (IDDE) Program	DPW/Engineering and Water and Sewer Division	Town has had an aggressive IDDE program for years	Continued to maintain an aggressive IDDE Program. Located 3 Illicit discharges.	Continue to maintain an aggressive IIDDE Program.
Revised			Monitor improvements in water quality		
3C	IDDE Ordinance	DPW/Engineering	Create By-law	Maintained and enforced Storm Water By-law	Continue to maintain and enforce Storm Water By-law.
Revised					
3D	IDDE “Hotline”	DPW/Engineering	Create “Hotline”	“Hotline” maintained by DPW/Engineering.	Continue to Maintain “Hotline” and email account
Revised			Personnel have been assigned to handle these calls		
3E	Revise Sewer and Drain Use Regulations	DPW/Engineering	Revise and Adopt new regulations	DPW/Engineering in the process of revising Sewer and Drain Use Regulations.	Regulate Sewer and Drain use and work with contractors and public to eliminate non-storm water discharges
Revised					
Revised					

3a. Additions

3F	Comprehensive IDDE Plan	DPW/Engineering	Monitor improvements in water quality	Implement Plan	Continue to implement plan
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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
4A	Site Runoff Control (Erosion and Sediment Control ESC By-law)	DPW/Engineering	Create ESC By-law	Maintained and enforced ESC component of Storm Water By-law.	Continue to maintain and enforce Storm Water By-law.
Revised					
4B	ESC Plan Review	DPW/Engineering	Conduct Plan review after adoption of Storm Water By-law	DPW/Engineering reviewed and approved 45 plans for construction projects	Continue ESC plan review.
Revised			Track number of plans reviewed.		
4C	Construction Inspection	DPW/Engineering	Conduct Inspections	DPW/Engineering inspected 45 construction sites	Continue Construction Site Inspections.
Revised			Track number of inspections.		
4D	“Hotline” for non-compliant construction sites	DPW/Engineering	Create “Hotline”	“Hotline” maintained by DPW/Engineering.	Continue to Maintain “Hotline”
Revised			Personnel have been assigned to handle these calls		
Revised					

4a. Deletions

4E	Creation of contractors BMP handbook for construction activities	DPW/Engineering	Did not create handbook. Information available instead on website		
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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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
5A	Post Construction Control By-law	DPW/Engineering	Create By-law	Implemented Post Construction Controls as part of Storm Water By-law	Continue to maintain and enforce Storm Water By-law.
Revised					
5B	Plan Review	DPW/Engineering and Building Dept.	Conduct Plan Review	Coordinated with Building and Planning Department to ensure plan review on all projects. Review 45 plans	Continue Plan Review Process
Revised			Track number of plans reviewed.		
5C	O&M of Runoff Control Structures/Practices	DPW/Engineering	Incorporate into all plans of Storm Water Management Structures and Practices	Worked with developers, contractors, engineers, and architects to include O&M into all plans. 45 sites incorporated O&M practices.	Continue to ensure O&M of Storm Water Structures and Practices.
Revised			Track number of sites with O&M practices.		
5D	Inspection of Runoff Control Structures/Practices	DPW/Engineering	Conduct Inspections	Conducted 45 inspections	Continue inspections.
Revised			Track number of inspections.		
Revised					
Revised					

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
6A	DPW Employee Training	DPW/Engineering	Conduct Annual Training	Met with various Division Personnel (Highway/Sanitation, Water/Sewer, and Parks) to discuss Storm Water issues related to municipal operations.	Continue DPW personnel training and education.
Revised			Track education with a questionnaire.		
6B	Municipal Maintenance Activities	DPW/Engineering	Conduct Annual Inspection and review operation practices	Conducted inspections at DPW facilities. (see Part IV for summary)	Continue inspections at DPW facilities
Revised			Log inspections and monitor progress on O&M practices		
6C	Household Hazardous Waste Collection Program	DPW	Conduct HHP day	Collected household hazardous Products. See Part V for tracking summary.	Continue to maintain waste collection program
Revised			Track Waste Recovered, recycled, and disposed.		

6a. Additions

6D	Street Sweeping Program	DPW/Highway	Track tons of sweepings collected.	Conducted Street Sweeping. Documented material collected, transported and disposed (See Part V O&M Section).	Continue Street Sweeping Program
6E	Catch Basin Cleaning Program	DPW/Water and Sewer/Engineering	Track tons cleanings collected.	Cleaned catch basins (See Part V O&M Section).	Continue Catch Basin Cleaning Program.

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

The Town discharges in to the Muddy River which flows into the Charles River. The Muddy River has been listed as impaired by pathogens, while the Charles River has been listed for both pathogens and phosphorous. Both sources can be attributed to polluted stormwater discharges. Below is summary of actions to reduce the amount of pathogens and phosphorous discharged to the Muddy and Charles Rivers.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
7A	Reduce Pathogens in stormwater discharges	DPW/Engineering	Track the number of cross-connections removed and measure improvements in stormwater sampling results	Implemented measures to reduce pathogens in stormwater discharges to Muddy and Charles Rivers (This work is already a part of the Towns IDDE program).	Continue to implement pathogen reduction measures
Revised					
7B	Reduce Phosphorous in stormwater discharges	DPW/Engineering	Track the number of construction sites inspected and installation of stormwater structural BMPs and maintenance of non-structural BMP programs	Implemented measures to reduce phosphorous in stormwater discharges (This work is regulated under the stormwater by-law through construction site inspections and onsite retention/filtration of runoff through new site development). Other reduction measures include non-structural BMPs like street sweeping and catch basin cleaning.	Continue to implement phosphorous reduction measures
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

The Town continues to implement BMPs to reduce the amount of pathogens and phosphorous in stormwater discharges. This is accomplished through an aggressive IDDE program (see Part V for GPD of wastewater removed from the storm drain system), construction site/new development regulations, installation of structural BMPs (onsite retention, detention, and filtration devices) where practical, and ongoing maintenance and funding of non-structural BMP programs like street sweeping and catch basin cleaning (see Part V of the report for Tons removed from the storm drain system).