

9/23/08
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Municipality/Organization: HOPKINTON

EPA NPDES Permit Number: MAR041124

MaDEP Transmittal Number: W-040816

Annual Report Number

& Reporting Period: No. 5: April 07 - March 08

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: J.T. Gaucher, P.E.

Title: Director Public Works

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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: Anthony J. Troiano

Title: Town Manager

Date:

9/19/08

Part II. Self-Assessment

The Town of Hopkinton has completed the required self-assessment and has determined that our municipality is in compliance with all applicable conditions, except for the following provision:

Part II.B.8 As a component of the SWMP the Town will vote on a Stormwater Management and Erosion Control Bylaw at the next Town Meeting. The aforementioned Bylaw will incorporate the ten standards of the Massachusetts Department of Environmental Protection's (DEP) Stormwater Policy into a Stormwater Management Permit. The purpose of the bylaw is to address the effects of increased post-development stormwater runoff and nonpoint source pollution, and establish minimum standards and procedures to control runoff and prevent soil erosion and sedimentation associated with new development. A *Stormwater Management Permit (SMP)* shall be required from the Planning Board for the following activities:

- (1) Construction activities that will result in land disturbance of one acre or more, or which is part of a commercial development that will disturb one acre or more;
- (2) Construction activities that will disturb land with 15% or greater slope, and where the land disturbance is equal to 10,000 square feet within the sloped area;
- (3) Any construction activity that will increase the amount of impervious surface to more than 50% of the total area.

The DEP's ten standards have already been incorporated into Subsection 8.4 (Design Standards Section 8.4) of the Town of Hopkinton's Zoning and Regulations Relating to the Subdivision of Land.

The Town of Hopkinton has received DEP approval of its Comprehensive Wastewater Management Plan. The plan includes the potential of groundwater recharge with treated wastewater effluent to help mitigate the stressed basin. With SRF Funding, the Fruit Street Wastewater Treatment Plant Design has received DEP approval.

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)	Planned Activities – Permit Year 6
1-1	Annual Hazardous Waste Collection Day	Dept of Public Works	Hold Haz Waste Day. Advertise through descriptive flyer and media spots. Track # of cars and quantities.	Held 6/02/07 in Hopkinton. Descriptive flyer mailed to all residents. Posted on website. Spots on local Cable TV & newspaper. Number cars & types of waste tracked. Completed measurable goals.	Sponsor Hopkinton only Collection Day scheduled for 6/07/08. E-waste collection now offered weekly.
1-2	Promoting Water Conservation Practices	Hopkinton Water Department	Provide conservation kits. PSA's on water conservation. Public education during Drinking Water Week.	Adopted water supply conservation restrictions, conditions or requirements limiting the use of water as necessary to protect the water supply or required to meet state regulations. Sponsored a Rain Barrel Water Conservation Program to the residents of Hopkinton.	Continue various program.
1-3	Issue Education Stormwater Press Releases	DPW Web Master SuAsCo	Complete article on SWMP and publish. Post educational stormwater flyer on website	Complete measurable goals in program Year 3	
1-4	Send out Stormwater Flyer to Community Businesses	DPW Web Master SuAsCo	Distribute and post stormwater flyer in Independent and on website, HCAM-TV.	Complete measurable goals in program Year 3.	
1-5	Place Education Information on Public Access Television	DPW HCAM-TV	Obtain "Stormwater" PSA's and air on HCAM-3 OPTV-8 and track.	Received Stormwater PSA's from the SuAsCo Watershed Community Council for distribution and display.	Continue program.
1-6	Place Education Information on the Town's Website	DPW Webmaster	Post stormwater info on website and update regularly	Obtain Educational Internet Presentations for display on the Town's Website. Limited Staff and Funding prevented printing and distribution to meet goal for Year 5.	Continue program.

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)	Planned Activities – Permit Year 6
2-1	Public Presentation, Access to SWMP and Receipt of Comment	DPW	Make final SWMP accessible for public viewing.	Completed Program Year 1	Maintain final SWMP at town hall, library and DPW administration office.
2-2	Public Assist to Annual Report.	DPW	Make Annual Report accessible for public viewing.	Maintain Annual Report at town hall, library and DPW administration office. Receive comments on the annual report. Submit an annual report to both the EPA and MA DEP.	Continue Program
2-3	Assist with Local Cleanup Activities	DPW ConCom	Offer assistance with local cleanup activities to groups. Track activities, participants, areas and quantities.	Announce assistance with local cleanups and improve tracking of activities. Provided recycling containers on Earth Day 4/22/07.	Developed Community Fun Clean Up Program with local groups at various locations within the town.
2-4	Circulate Stormwater Traveling Display in Community	DPW SuAsCo	Display at various Town locations and track.	Completed Program Year 4	
2-5	Participate in SuAsCo Summit.	DPW SuAsCo	Display at various Town locations and track.	Distributed information on the River Visions 2007 Watershed Forum sponsored by SuAsCo Watershed Community Council. Make the Stormwater Self Test available to town residents. Compile and consider municipal and multiwatershed – wide “self test” results.	

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)	Planned Activities – Permit Year 6
3-1	Update Outfall Location Map	DPW Planning Board	Outfall verification and identification	Continued GPS locating effort and add information to GIS mapping of outfalls located within the Designated MS4 Areas. An estimated 250 stormwater outfalls were inspected and located within the Towns regulated areas.	Continue GPS locating effort and add information to GIS mapping of the storm drainage system, including outfalls located outside of the Designated MS4 Areas.
3-2	Adopt an Illicit Discharge and Connection Stormwater Ordinance	DPW	Draft ordinance. Approve by Town Mtg. Track enforcement actions.	Finished development of DRAFT Illicit Discharge Detection Elimination Plan	Finalize development of the Illicit Discharge Detection Elimination Plan for presentation at Spring "09" Town Meeting.
3-3	Implement an Illicit Discharge Detection and Elimination Plan	DPW	Develop the Illicit Discharge Detection Elimination Plan	An estimated 250 stormwater outfalls were inspected and located within the Towns regulated areas	Continue program
3-4	Establish a Formal Septic System Management Program	Board of Health	Permitting system use. Track # of haulers, installers, C of C's, failed systems, routine pumpings and participants in CSMBLP.	All tracking system are in place and currently in use.	Continue program.
3-5	Conduct I/I Removal in the Sanitary Sewer System	DPW	Gain SRF funding. Conduct study of areas of concern. Develop I/I removal plan. Perform I/I removal.	Prepared a scope of work to perform flow metering at 12 locations to collect dry weather and wet weather flow data. The data will be used to prioritize the areas to be evaluated via closed circuit television inspection to locate sources of infiltration and inflow. In addition, the scope of work includes performance of flow isolation to quantify infiltration in portions of the sewersheds being metered.	Received SRF funding for Phase II I/I Study. Metering program and flow isolation work will commence in April 2008 with a report detailing the findings and conclusions prepared in the fall of 2008.
3-6	Conduct Storm Drain Stenciling	DPW	Identify areas to be stenciled. Track # of drains stenciled. Press release and runoff reduction tips	Did not complete measurable goals.	Continue scheduled drain stenciling program. Solicit volunteers.
Revised	<i>Use Volunteers to Stencil Drains</i>		Solicit groups for merit projects	No volunteers	

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)	Planned Activities – Permit Year 6
4-1	Develop an Erosion and Sediment Control Ordinance	Planning Board DPW ConCom Bldg Dept	Draft Ordinance, present at Town Meeting, track enforcement	Prepared Stormwater Management and Erosion Control Bylaw for presentation at Spring "08" Town Meeting	Implementation upon passage of Stormwater Management and Erosion Control Bylaw.
4-2	Develop a Site Inspection Form and Conduct Inspections	Planning Board DPW ConCom	Develop Site Inspection Form, Track frequency of Inspections, completion of inspection forms and# of failed BMP's discovered.	Prepared Stormwater Management and Erosion Control Bylaw for presentation at Spring "08" Town Meeting	Develop inspection form, initiate inspections upon passage of Stormwater Management and Erosion Control Bylaw
4-3	Develop and Implement a Citizen Complaint Hotline	DPW Web Master	Establish & advertise hotline. Track # of complaints and remediation	Establish & advertise hotline. DPW office tracks # of complaints and remediation.	Continue program.

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)	Planned Activities – Permit Year 6
5-1	Revise the Site Plan Review Submission Requirements and Procedures	Planning Board	Draft Amendment, hold public hearing, Town Meeting approval, adopt	Completed Year 3. Revisions approved at 2005 Annual Town Meeting.	

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)	Planned Activities – Permit Year 6
6-1	Develop a Formal Training Program for DPW Staff	DPW Human Resources	Develop manual and conduct training, track. Repeat every 2 years.	Initiate development of manual and begin training.	Continue program.
6-2	Develop a Formal Catch Basin Cleaning Program	DPW – Highway Division	Purchase vacuum truck. Establish quadrants and – prioritize. Clean 50% CB's/yr, document.	Continue CB cleaning and tracking within environmental sensitive areas. Town able to clean 240 catch basins from April 07 to March 08 using Vacuum truck	Continue CB cleaning and tracking within environmental sensitive areas.
6-3	Develop a Structural BMP Maintenance Program	DPW – Highway Division	Inventory & identify maintenance reqm'ts. Develop schedule, track.	DPW to contract with private contractor for inspect and cleaning of all inventoried structural BMP's.	Continue program.
6-4	Formalize the Existing Parking Lot and Street Sweeping Program	DPW – Highway Division	Inventory public streets and parking lots & prioritize sweeping activities. Sweep minimum of once/yr, track.	Due to lack of staff and funding a priority to streets with CB's discharging to Lake Maspenock, Whitehall Reservoir and Hopkinton Reservoir was established by the DPW.	Continue program.
6-5	Implement Stormwater Pollution Prevention Plan	DPW	Finalize SWPPP. Schedule Plan implementation, track	SWPPP has been completed for the Wood Street DPW Facility	Continue scheduled measurable goals.
6-6	Develop a Landscape and Lawn Care Policy for Properties Under DPW Jurisdiction	DPW	Develop, implement policy. Provide policy to employees and contracted lawn services.	Fertilization schedule has been established for parks and cemeteries.	Continue scheduled measurable goals.

Part IV. Summary of Information Collected and Analyzed

Incorporation of watershed, stream, wetland and other wetland resource areas into GIS Mapping database.	(y/n)	YES
GPS identification of storm drains, outfalls and other wetland resource areas.		80%

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	NO
Annual program budget/expenditures	(\$)	\$0

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	NO
Stream teams established or supported	(# or y/n)	YES
Community Fun Clean Up Group established	(y/n or mi.)	YES
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	One
▪ community participation	160 Households	
▪ material collected /Household Hazardous Waste	(tons and gal)	4.6 tons and 440 gals
School curricula implemented	(y/n)	YES

Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X

Mapping and Illicit Discharges

Outfall mapping complete	(%)	80%
Estimated or actual number of outfalls	(#)	525
System-Wide mapping complete	(%)	50%
Mapping method(s)		
▪ Paper/Mylar	(%)	YES
▪ CADD	(%)	YES
▪ GIS	(%)	YES
Outfalls inspected	(# or %)	250
Illicit discharges identified	0	
Illicit connections removed	0	
% of population on sewer	(%)	40
% of population on septic systems	(%)	60

Construction

Number of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	
Site inspections completed	(# or %)	
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpd)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	One
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	One
Total number of structures cleaned	(#)	240
Storm drain cleaned	(LF or mi.)	1000 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	495 Tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Beneficial use
Cost of screenings disposal	(\$)	7425.00

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	One
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	One
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Beneficial use
Cost of sweepings disposal	(\$)	

Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	NO

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	YES
Manual control spreaders used	(y/n)	YES
Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	YES
Storage shed(s) in design or under construction	(y/n)	