



**TOWN OF HUDSON
DEPARTMENT OF PUBLIC WORKS**

1 MUNICIPAL DRIVE
HUDSON MA 01749

TEL. 978 562 9333

FAX. 978 568 9612

April 28, 2010

Mr. Fred Civian
Massachusetts Department of Environmental Protection
One Winter Street – 5th Floor
Boston, MA 02108

RE: NPDES Phase II Small MS4 General Permit Annual Report
W-036113- Town of Hudson, MA

Dear Mr. Civian:

Attached please find a copy of the annual report for the Town of Hudson, Massachusetts for 2010 as required by the NPDES Phase II Small MS4 General Permit. As required, a copy of the Annual Report has also been sent to the EPA.

Please do not hesitate to contact me if you have any question or comments at (978) 562-9333.

Sincerely,

Max Kamel
Assistant Director of Public Works

Attachments

Cc: Paul Blazar, Executive Assistant
Anthony Marques, DPW Director

Rec'd
5/3/10

Municipality/Organization: Hudson, MA

EPA NPDES Permit Number: MA 041198/MaDEP

MaDEP Transmittal Number: W-036113

Annual Report Number

& Reporting Period: No. 7: March 2009-March 2010

P

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Max Kamel

Title: Assistant DPW Director

Telephone #: (978) 562-9333

Email: Mkamel@TownofHudson.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:



Printed Name: Paul Blazar

Title: Executive Assistant

Date: April 28, 2010

Part II. Self-Assessment

The Town of Hudson has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

Note: Our BMP numbers assigned to the various tasks are identified as follows:

BMP 4-1 (Task – control measure) – This would be Task #4 for control measure #1 Public Education and Outreach

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-1 Revised	Storm Water Flyer to Community Residents	DPW and SuAsCo	Flyer distributed to 75% of residents and compile survey results	Results of the survey were received and analyzed. Information and flyer were displayed and distributed at DPW office.	N/A
2-1 Revised	Storm Water Lesson Plan for 5 th Grade Students	Hudson School Dept and SuAsCo	Develop & distribute lesson plan to 5 th grade teachers	N/A	N/A
3-1 Revised	Storm Water Flyer to Community Businesses	DPW and SuAsCo	Flyer distributed to 50% of businesses & have stormwater logos displayed at business	Distributed flyers to businesses and have stormwater logos displayed at businesses	N/A
4-1 Revised	Storm Water Media Campaign	DPW and SuAsCo	Media info display packet delivered to local media and generate 4 press releases for major media outlets	Received Storm Drain DISPLAY from SuAsCo. Display posters and distribute cards at Town Hall to educate residents about Stormwater in cooperation with SuAsCo. Install the display and info packet at the Senior center meetings.	Maintain the display at Town Hall. Display at different locations such as RiverFest day and others to educate residents about Stormwater in cooperation with SuAsCo.
5-1 Revised	Storm Water Video	DPW and SuAsCo	Show storm water video @ 1 public meeting and on local cable stations	Obtained Power Point DVD titled "Stormwater Matters" from SuAsCo Watershed and delivered to Comcast to be aired on local cable channel. Hudson High School students operate the local channel broadcasting.	Continue working with SuAsCo to obtain new media material to be aired on cable channel(s).

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-2 Revised	Storm Water Traveling Display	DPW and SuAsCo	Circulate display for 3 months in permit year #1	Displayed information at Town Meeting and other public activities such as RiverFest.	Continue to display at Town Meeting and other public activities such as RiverFest.
2-2 Revised	Storm Water Poster Contest for 5 th Graders	SuAsCo & Hudson School Dept	Contest is held and entries are received, judged, & displayed	N/A	N/A
3-2 Revised	Storm Water Photo Contest for High School Students	SuAsCo & Hudson School Dept	Contest is held and entries are received, judged, & displayed	N/A	N/A
4-2 Revised	Storm Water Summit Special Event	DPW & SuAsCo	Hold local or multi-community summit & encourage community to attend	N/A	N/A
5-2 Revised	Storm Water Super Summit and Conduct an Evaluation & Assessment of Public Stormwater Awareness	DPW & SuAsCo	Municipal participation in Summit, self-test distributed to 75% of residents, compile test results	Task was accomplished in 2006, one year ahead of schedule	N/A
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-3 Revised	Identify & map outfalls and receiving waters	DPW	Map all outfalls and incorporate into GIS	Identified approximately 99% of the outfalls, catch basins, and drain manholes by GPS and integrated into GIS. 95% of the drainpipes were connected.	Refine the outfall list to include outfall that directly contribute to United States Water. Continue to update map of the drainage system. Locate any missing features and add them to GIS.
2-3 Revised	Database of existing structures	DPW	Locate all structures and develop rating & maintenance plan	Have started a database on all structures and outfalls identified and develop a module to adapt to the GIS system	Continue compiling the database
3-3 Revised	Develop and implement a Storm water ordinance	DPW & Town Boards	Have an ordinance adopted within 12 months	The Town adopted (added) the "Regulations Governing Illicit Connections and Discharge to the Municipal Storm Drain System" to the Board of Health Rules and Regulations. The Town also adopted "Floor Drain Regulations".	Enforce the implemented Regulations
4-3 Revised	Inform Public, employees, businesses of illicit discharges	DPW	To inform who, what, where, and how to detect an illicit discharge	Informed personnel handling Stormdrain work to contact DPW Office for any illicit, pollution, or any suspicious activity. DPW worked with the Board of Health and Conservation Commission to immediately take actions and/or resolve the problem.	Continue coordination with different Commissions and Boards in order to maintain a safe and healthy community.
5-3 Revised	Develop & implement an illicit discharge plan	DPW	Review existing mechanisms and determine how to regulate illicit discharges and develop a bylaw	DPW bought a Pipe TV Camera to immediately inspect and trace any storm drain pipe problem. Worked with many instances during the year with Fire Dept, Board of Health and Conservation Commission to investigate and resolve illicit discharge problems. Continue working toward the implementation of the written plan.	Continue working with the Fire Dept, Board of Health and Conservation Commission to investigate and resolve illicit discharge problems. Continue working toward the implementation of the written plan.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-4 Revised	Sediment & Erosion Control Ordinance	DPW & All Boards	Have an ordinance for erosion control within 12 months	The Town adopted (added) "Rules and Regulations Governing Construction, Post Construction, Erosion and Sediment Control for Stormwater Management Plan of new Development (Section 4.9.4.7)" to the "Regulations Governing the Subdivision of Land". The adopted regulations were based on the Office of Massachusetts Attorney General guideline sample posted on their website. The Planning Board has enforced the Regulation.	Enforce the implemented Regulations
2-4 Revised	Develop procedures for site plan review	DPW & All Boards	All construction activities to submit plan for review prior to start of construction	Internal Traffic Committee (ITC) reviewed all new development/site plans. ITC Staff includes most of the Town Departments. Planning Board has procedure to request, design implement, maintain and enforce erosion control measures for all site plan and development projects.	Continue the process to review all new site plans and assure their compliance with the newly adopted Stormwater Regulations.
3-4 Revised	Procedures for site inspections and enforcement	DPW & All Boards	Develop new procedures and documentation format	The new regulations mentioned on Item 1-4 included the procedure for site inspection and enforcement.	Continue enforcing new regulations implemented in 2008.
4-4 Revised	Sanctions to ensure compliance	DPW & All Boards	To establish fines and penalties for non-compliance	Planning Board has the authority to issue and enforce stop work orders against any violator(s) of the Board's Regulations which will include regulations listed on item 1-4	Continue to issue and enforce stop work orders against any violator(s) of the Board's Regulations, to issue fines, and to penalize any violator(s) of the new regulations implemented in 2008.
5-4 Revised	Require control of waste from construction sites	DPW & Building Dept.	Develop a Management Plan aimed at recycling	Planning Board continued the Control and enforcement of any waste produced from any construction site.	Continue Control/enforcement work by Planning Board and Conservation Commission. The Town does not allow any waste to leave the construction site

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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-5 Revised	Post Construction Ordinance	DPW & All Boards		The Town adopted (added) "Rules and Regulations Governing Construction, Post Construction, Erosion and Sediment Control for Stormwater Management Plan of new Development (Section 4.9.4.7)" to the "Regulations Governing the Subdivision of Land".	Enforce the implemented Regulations
2-5 Revised	Long-Term O & M of BMP's	DPW		Continued working toward the implementation of the maintenance plan.	Communicate with the Planning Board to work toward the implementation of the maintenance plan.
3-5 Revised	Inventory of all BMP's within Town jurisdiction	DPW		Developed "Environmental Database" to manage and share information and records between different Town Departments regarding private sewerage systems	Continue to update and maintain the Environmental Database.
Revised					
Revised					
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 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-6 Revised	Employee Training	DPW	Inform employees on what our goals are with this permit	Continued updating employees on the progress of the permit	Continue updating employees on the progress of the permit
2-6 Revised	Municipal Vehicle Wash Area	DPW	To bring our wash area into compliance	N/A	N/A
3-6 Revised	Material Management	DPW	Inventory and properly store all material used at DPW	DPW maintained a contract to dispose Hazardous material such as tires, waste oil and others through professional and specialized companies.	Continue to maintain a contract to dispose hazardous material such as tires, waste oil and others through professional and specialized companies. Work with local Companies, Board of Health to sponsor a Hazardous Waste Day.
4-6 Revised	Catch Basin Cleaning Disposal Plan	DPW	Catalog and dispose of material from CB's properly	Town cleaned 100% of the Town catch basins in 2009 (Except for the ones which could not be opened or have elbows, which the Town DPW added to the list to be cleaned using the VAC Truck. DPW used VAC truck to clean catch basins that encountered problems during the year after it has been cleaned once.	Continue cleaning 100% of the Town catch basins in 2010. DPW continue using the VAC truck to clean catch basins that encountered problems.
5-6 Revised	Stream Cleanup Day	DPW, Community, SuAsCo	To remove all debris from the rivers and banks	Cleaned Assabet River and expanded the days and waterways to be cleaned. Central Mass Mosquito Control Project cleaned 1200 linear feet of drainage brook between Old Bolton Rd and Eaton Dr. and about 800 linear feet behind Elementary school and other streams and brooks. The cleaning included dredging brooks and pick up and dispose of trash, debris and yard waste.	Continue cleaning Assabet River and other brooks and waterways. Continue communication with CMMCP to dredge, clean and maintain

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 7
1-7 Revised	Installation of leaching catch basins using a S319 Grant (Lake Boon)	DPW	To install CB's and eliminate point source discharges	N/A	N/A
2-7 Revised	Educational Pamphlets	DPW & Board of Health	To distribute flyers to encourage inspection and improvement of septic systems around Lake Boon	Continued educating residents and volunteers and distributed educational pamphlets during the cleaning of the Assabet River and other waterways.	Town continues to distribute educational pamphlets through the Board of Health and Town Clerk Offices.
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

Part IV. Summary of Information Collected and Analyzed

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2009 through March 31, 2010)

We have not started any water quality test in general at this time. The recreation department does test the water at the Town Beach on Fort Meadow Reservoir – Centennial Beach. Testing results are attached and included in this report.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures	(\$)	\$105,000
Total program expenditures since beginning of permit coverage	(\$)	Approx. 300,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		DPW Budget

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	3000
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y 6.5 Miles
Household Hazardous Waste Collection Days (every 18 Months)		
▪ days sponsored	(#)	0
▪ community participation	(%)	N/A
▪ material collected Haz. Waste days are conducted by Intel and BP Trucking not Town	\$	0
School curricula implemented	(y/n)	Y

Construction

Number of construction starts (>1-acre)	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public ⁽¹⁾	(#)	1
⁽¹⁾ DPW & Building Departments investigated the complain and the Developer fixed the problem		

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections completed	(# or %)	100
Estimated volume of stormwater recharged	(gpy)	N/A

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1 or more
Total number of structures cleaned	(#)	2413
Storm drain cleaned	(LF or mi.)	800 LF
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	120+/- tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Beneficial use
Cost of screenings disposal	(\$)	12,000
Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	26,543
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	11

Anti-/De-Icing products and ratios	
	% NaCl
	% CaCl ₂
	% MgCl ₂
	% CMA
	% Kac
	% KCl
	% Sand
Pre-wetting techniques utilized	85%
Manual control spreaders used	N
Automatic or Zero-velocity spreaders used	Y
Estimated net reduction in typical year salt application	Y
Salt pile(s) covered in storage shed(s)	0
Storage shed(s) in design or under construction	Y
	N/A

% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	1
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	100