



Haverhill

Paul J. Jessel, Collection System Supervisor
Water/Wastewater Division
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April 28, 2008

United States Environmental Protection Agency
1 Congress Street, Suite 1100 (CIP)
Boston, MA 02114-2023
Attn: Glenda Velez by email: stormwater.reports@epa.gov

Massachusetts Department of Environmental Protection
One Winter Street -5th Floor
Boston, MA 02108
Attn: Fred Civian by email: Frederick.Civian@state.ma.us

Subject: Haverhill, Massachusetts Permit Number: MAR 041197
Annual Stormwater Report No. 6

Dear Ms. Velez and Mr. Civian:

In accordance with the City of Haverhill's NPDES Stormwater Permit, we are providing this annual report for activities from March 2008 to March 2009.

Self-Assessment

The Stormwater Committee began meeting in September 2007. The following is a brief summary of Stormwater activities undertaken during the sixth permit year:

- Finalize Illicit Discharge and Detection manual, which is included as an access database.
- Began Stormwater out fall inspections
- Haverhill Highway Department continued the street sweeping program. The City currently has 1,400 streets, with 212 centerline miles of streets. The City swept 408 miles.
- Highway Department collected waste oil on the last Saturday of the month from 9:00 AM -1:00 PM from September to June.
- The Conservation Commission enforces the 1997 Massachusetts Stormwater Management Policy and the new Stormwater Management Regulations for projects that are within its jurisdiction. Additionally, for projects that will disturb an acre or more, the Commission requires proof of EPA authorization under NPDES and copies of the



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- Stormwater Construction General Permit Notice of Intent. The Commission also requires a Stormwater Pollution Prevention Plan to be submitted before commencement of work.
- We continue to have a Household Hazardous Waste collection day twice per year. In calendar year 2007, we had 171 cars arrive in three hours. We collected 20,850 pounds of hazardous waste (2,500 gallons). Household Hazardous Waste collection days for 2009 are scheduled for May and October. See enclosed document "City of Haverhill WWTP-HHW collection event History," detailing the numbers of cars and pounds of waste collected from 1996 to 2008.
- The Stormwater Committee developed a draft Stormwater utility similar to Lewiston Maine. March 10, 2009, CDM City's consultant, met with the Mayor Fiorentini to present the Stormwater Utility Structure. Alternatives are being review to be presented to the City Council in the near future.

Until recently, the City's stormwater system plans were fragmented in many different plans. No real coordination of the Stormwater was conducted until the City contracted with CDM to create a Geographic Information System (GIS) storm water layer. The Stormwater Layer was completed and delivered to the City in June 2007. The principal components of the Stormwater Layer are as follows:

- The City has documented 4,316 catch basins.
- 604 Stormwater outfalls, which have been identified and renamed according to the City of Haverhill Illicit Discharge Detection and Elimination (IDDE) manual.
- 1,837 Stormwater manholes

The attached tables are the Best Management Practices (BMP's) listed in City of Haverhill's Notice of Intent, (NOI) and the City's progress in the sixth permit year. The City of Haverhill is committed to the Stormwater program and will make every effort possible to achieve the BMP's listed in the City's NOI.



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Should you have any question or comments please call my office at 978-374-2382 or email me pjessel@haverhillwater.com.

Sincerely

Paul J. Jessel
Collection System Supervisor

Enclosures

cc: James J. Fiorentini, Mayor City of Haverhill
Joy Hilton US EPA, hilton.joy@epa.gov
Nihar Mohanty MassDEP, nihar.mohanty@state.ma.us
Michael Stankovich, DPW Director
Robert E. Ward, P.E. Deputy DPW Director Water/Wastewater
John Pettis, III P.E., City Engineer
William Pillsbury, Planning, Economic, and Board of Health Director
Robert E. Moore, Jr., Environmental Health Technician
Margaret Toomey, City Clerk
John D'Aoust, Water Treatment Plant Manager
Mary D'Aoust Water Treatment Chemist
Bonnie Dufresne, Board of Health
Les Godin, Health Inspector
Highway Department

1. Public Education and Outreach

BMP ID.	BMP	Responsible Dept. / Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#1-1	Designate Stormwater Coordinator	Mayor	Official Designation of Stormwater coordinator	Completed Committee is established	Official designations of a Stormwater coordinator establish a reoccurring meeting date and time.
#1-2	Add Stormwater Information to City Website	Stormwater Coordinator	Incorporation of Stormwater Page	Completed Stormwater web page	Place Stormwater information onto the City's web page. The City's Stormwater Web page is http://www.ci.haverhill.ma.us/departments/stormwater/index.htm Added request for catch basin cleaning and street sweeping onto the City's Web Site. http://www.ci.haverhill.ma.us/departments/water/catch_basin.htm
#1-3	Coordinate Outreach with Initiatives of Local Watershed Organizations	Stormwater Coordinator	Identification of groups annual contact	Completed	Initiate discussions with Haverhill's Lake Alliance, Merrimack Valley Planning Commission
#1-4	Develop and Distribute Informational Brochures	Stormwater Coordinator	Development and dissemination of 2 brochures.	Completed	Complete brochures.
#1-5	Install and Maintain Signage	Stormwater Coordinator	New Signs at 5 locations. Develop List of future signs	Completed	Committee decided only CSO signs are required.
#1-6	Distribute Pet Waste Brochure with Dog Licenses	City Clerk	Brochure to all dog licensees	Completed	The City Clerk is now distributing pet waste brochure.

Summary of Minimum Control Measures (Continue)

2. Public Involvement and Participation

BMP ID.	BMP	Responsible Dept./Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#2-1	Comply with State Public Notice Guidelines	City Clerk & Department Heads	Comply with State guidelines	Completed	Continue Compliance
#2-2	Annual Household Hazardous Waste Day	IPP Coordinator	Annual collection day held	Completed	Continue bi-annual household Hazardous Waste Day scheduled for May 2008 and October 2008
#2-3	Motor Oil Collection Days	Highway Dept.	Collection days held	Completed	Last Saturday of the month 9:00 AM to 1:00 PM Sept. to June
#2-4	Establish a Stormwater Hotline	Stormwater Coordinator	Establishment of hotline	Completed	Establish email for general public, which is stormwater@cityofhaverhill.com . Established and maintain hotline 978-374-2334
#2-5	Establish a Stormwater Committee	Mayor	Establishment of Committee	Completed	Designate and formally establish Stormwater Committee and schedule regular meetings
#2-6	Stencil Catch basins	Stormwater Coordinator	Contact Groups stencil 50 CBs per year	Completed	Wastewater Division after cleaning catch basins will stencil each catch basin.

Summary of Minimum Control Measures (Continue)

3. Illicit Discharge Detection and Elimination

BMP ID.	BMP	Responsible Dept. /Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#3-1	Map Outfalls and Receiving Waters	City Engineer & Stormwater Coordinator	Completed map	Completed June 2007	Begin to identify Stormwater out falls.
#3-2	Review and Revise, if necessary. Stormwater Bylaw	Stormwater Coordinator	Completed review, modifications if needed	Completed Drafted “Stormwater Management and Erosion Control” ordinance with supporting Regulations	Part of Stormwater utility Ordinance. Finalize ordinance and pursue City Council adoption. Finalize regulations for promulgation by “Stormwater Management Authority”. Update supporting municipal rules and regulations (e.g. subdivision regulations)
#3-3	Continue Dry-Weather Screening of Outfalls	Stormwater Coordinator	Complete first round of screening	Started	Continue sampling along tributaries to Merrimack River
#3-4	Develop Program for Detection and Elimination of Illicit Connections	Stormwater Coordinator, Board of Health, Wastewater	Develop procedures for removal	Completed	Finalize IDDE manual March 2008 see the complete manual.

Summary of Minimum Control Measures (Continue)

4. Construction Site Stormwater Runoff Control

BMP ID.	BMP	Responsible Dept./Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#4-1	Review Existing Ordinance Requiring Stormwater Plan for Sites Greater than 1 Acre. Make Changes as Necessary.	Stormwater Coordinator Conservation Commission, City Eng., Planning Dept., Water & Wastewater	Completed review, modifications if needed	Included within drafted ordinance - See BMP ID#3-2	See BMP ID#3-2
#4-2	Develop Procedure for Receipt and Consideration of Public Comment	Stormwater Coordinator Conservation Commission, City Eng., Planning Dept., Water & Wastewater	Completed review, modifications if needed	Completed – Included within drafted ordinance - See BMP ID#3-2	See BMP ID#3-2 Established email hot line, which is stormwater@cityofhaverhill.com phone hotline 978-374-2334
#4-3	Site Inspections of Stormwater Control and Material Management	Stormwater Coordinator Conservation Commission, City Eng., Planning Dept., Water & Wastewater	Regular inspections	Site Inspections are currently being conducted. Included within drafted ordinance – see BMP ID#3-2	Continue ongoing inspections of subdivisions. see BMP ID#3-2

Summary of Minimum Control Measures (Continue)

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID.	BMP	Responsible Dept./Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#5-1	Develop Ordinance Requiring Runoff Controls for New and Re-Development	Stormwater Coordinator Conservation Commission, City Eng., Planning Dept., Water & Wastewater	Completed review, modifications if needed	Included within drafted ordinance - See BMP ID#3-2	see BMP ID#3-2
#5-2	Recommend a BMP Manual	Stormwater Coordinator Conservation Commission, City Eng., Planning Dept., Water & Wastewater	Manual selected	Currently researching appropriate manuals Drafted ordinance references MA manuals	Finalize ordinance references (e.g. Massachusetts Stormwater Management Handbooks (including Volume 2, Chapter 2: Structural BMP Specifications for the Massachusetts Stormwater Handbook), Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas – A Guide for Planners, Designers, and Municipal Officials, and Massachusetts Nonpoint Source Pollution Management Manual

Summary of Minimum Control Measures (Continue)

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID.	BMP	Responsible Dept. /Person	Measurable Goal	Progress on Goal(s) – Permit Year 6	Planned Activities – Permit Year 6
#6-1	Continue Catch Basin Cleaning Program	Wastewater Dept., Stormwater Coordinator, Planning Dept.	Continuation with current program	Completed	Continue with current program Catch basin cleaning program with a goal to clean 4,300 basins every 3-years.
#6-2	Continue Street Sweeping Program	Highway Department, Stormwater Coordinator		Completed	Continue with Current Program
#6-3	Adopt Operating Procedures for CB and Street Sweeping Residuals.	Highway Dept., Stormwater Coordinator	Completed review, modifications if needed		Develop appropriate procedures
#6-4	Minimize Salt Usage and Maintain Salt Storage Area	Highway Department, Stormwater Coordinator	Continuation with current program	Completed	Salt storage is covered and maintained
#6-5	Develop and Implement Inlet Cleaning at Ponds	Stormwater Coordinator	Development of program	Began inventorying pond inlets where cleaning is likely needed	Develop and Identify what needs to be clean and where
#6-6	Develop and Implement Employee Training Program	Highway Dept., Stormwater Coordinator	2 Hours annually of training per Employee		

CITY OF HAVERHILL WWTP - HHW COLLECTION EVENT HISTORY

YEAR	NUMBER OF CARS	NUMBER OF EVENTS	WASTE COLLECTED-LBS.
1996	170	1	21,300
1997	150	1	18,765
1998	420	3	29,943
1999	300	2	26,715
2000	220	2	27,355
2001	200	1	25,020
2002	170	1	21,267
2003	180	1	22,518
2004	169	1	21,142
2005	210	1	26,271
2006	387	2	30,874
2007	289	2	28,364
2008	240	2	27,692
TOTAL:	3,105	20	327,226 lbs.
AVE.	155.25		16,361 lbs.

