Municipality/Organization: Town of Hanson, MA

EPA NPDES Permit Number: MA041037

MaDEP Transmittal Number: W-035899

Annual Report Number
& Reporting Period: No. 5: April 1, 2007 -March 31, 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: **Richard Harris** Title: **Town Highway Surveyor**

Telephone #: **781-293-2822** Email:

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: **Jesse McSweeney**

Title: **Board of Selectmen, Vice Chairman**

Date: **April 29, 2008**

Part II. Self-Assessment

In general, the Town of Hanson's stormwater management activities for the fifth year of the General Permit (March 2007 through March 2008) were in conformance with the Notice of Intent (Massachusetts DEP form BRP WM 08A) and schedule submitted in July 2003. The Town has developed a Stormwater Management Plan with program priorities for 2003-2008 including:

1. Achieving regulatory compliance, particularly EPA and DEP Phase II NPDES permit requirements;
2. Incorporating storm water protection measures into municipal activities;
3. Focusing activities on target pollution reduction (e.g. Section 303.d. waters and protecting the Town's water supply);
4. Ensuring that the Program is current and innovative; and
5. Providing Program administration.

The Water Quality Stewardship element of the program will focus on the protection of the local water supply and addressing the State's Section 303.d waters located within the Town. To this end, staff will continue to develop and improve the Program activities to reduce storm water pollution to the maximum extent practicable and eliminate prohibited non-storm water discharges, while facilitating understanding and involvement in storm water management by various Town departments. Program priorities will also focus on increased efforts to reduce target pollutants and restore local water bodies.

The Town is committed to working with local watershed associations to advance their goals and objectives. Another high priority of staff will be to keep abreast of the latest technology and approaches to achieve storm water management. Program activities will also strive to encourage environmental stewardship and continue to build on partnerships with other agencies, neighboring towns, and the community for active participation in accomplishing the Program mission.

The activities performed during Permit Year Five focused on the continued development of a Town-wide Geographic Information System, including stormwater system connectivity. In addition, water quality testing continued, with the collected data compared with the applicable state and federal standards.

The Town also continued with control measures that were initiated during the previous permit year, including improving local good housekeeping programs; and communicating the Town's Plan to local watershed associations.

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 5
1	Partnership with local Watershed Associations	Con. Comm., DPW, BOH	Regular Meeting Attendance	Continued updating, investigating alternative funding opportunities (such as 604b and 319 grants).	Continued updating, seek alternative funding opportunities (such as 604b and 319 grants).
Revised					
2	Develop Brochures	DPW	Quarterly Mailings	Water department mailings and water quality updates.	Continued mailings.
Revised					
3	WEB Site Public Service Postings	IT Dept., DPW	WEB Site Publication & Maintenance	NSRWA information transfer and data publication of data, local WEB updates	NSRWA information transfer and data publication of data, local WEB updates
Revised					
Revised					
Revised					

1a. Additions

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 5
4	Water Quality Testing	DPW	2 Rounds of Water Quality Sampling of Priority Water Bodies	Continued water quality testing.	Continue water quality testing.
Revised					
5	Community Cleanup Days	DPW	Annually	Conducted in Spring 2006	Scheduled for Spring 2007
Revised					
Revised					
Revised					
Revised					
Revised					

2a. Additions

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 5
6	Catch Basin/Outfall and Receiving Water Mapping	DPW	GIS Mapping	Continued connectivity, outfall and catch basin mapping and completion of GIS mapping	Continue connectivity, outfall and catch basin mapping and completion of GIS mapping
Revised					
4	Water Quality Testing	DPW	Testing of Priority Water Bodies	Continued water quality testing.	Continue water quality testing.
Revised					
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions and Action	Revisited consolidated regulations and investigate areas for revisions	Continue to revisit consolidated regulations and investigate areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements.	Ongoing to comply with local bylaws, state and federal requirements.
Revised					
9	Misconnection/Illegal Dumping and Correction	DPW, BOH	Connectivity Mapping, Bylaw Enforcement and Fines	Continue GIS mapping and local bylaw enforcement	Continue GIS mapping and local bylaw enforcement
Revised					

3a. Additions

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 5
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	Revisited consolidated regulations and investigate areas for revisions	Continue to revisit consolidated regulations and investigate areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements.	Ongoing to comply with local bylaws, state and federal requirements.
Revised					
10	Improved As-Built Review	DPW, Planning Board	Electronic As-Built Submittals on Town GIS System	Continued GIS mapping	Continue GIS mapping and develop protocol for submitting as-builts electronically
Revised					
Revised					
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	Revisited consolidated regulations and investigate areas for revisions	Continue to revisit consolidated regulations and investigate areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements.	Ongoing to comply with local bylaws, state and federal requirements.
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
11	Improved Street Sweepings	DPW		Monthly	Monthly
Revised					
12	Improved Catch Basin Cleanings	DPW		Semi-annual Collections	Semi-annual Collections
Revised					
13	Household Hazardous Waste Days	DPW		Annual Collection	Annual Collection
Revised					
14	Drain Stenciling	DPW	Aquifer Protection Area	GIS Mapping continuing to locate catch basins and connectivity	Complete GIS mapping and stencil drains in Aquifer Protection Area
Revised					
Revised					
Revised					

6a. Additions

18	Employee Training	DPW	Seminar Attendance	Seven employees attended storm water training seminar held at Holy Cross	Will continue to identify and attend appropriate training sessions

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6	GIS Mapping	DPW	GIS Mapping of Priority Waters and Drainage Patterns	Mapping of drainage structures ongoing	Continue drainage structure mapping and development of GIS mapping
Revised					
4	Water Quality Testing	DPW	Semi-Annual Water Quality Testing	Continued water quality testing.	Continue water quality testing.
Revised					
15	Stormwater Modeling	DPW	Needs Assessment for Category 5 Water Bodies	Continued mapping connectivity of outfall locations.	Continue outfall and catch basin mapping, and connectivity
Revised					
16	Misc. Structural BMPs as Needed	DPW	i.e. Construction Improvements	None to date (scheduled for next year as needed)	To be determined
Revised					
17	Misc. Non-Structural BMPs as Needed	DPW	i.e. Bylaw Enforcement, Fees and Fines	None to date (scheduled for next year as needed)	To be determined
Revised					

7a. Additions

7b. WLA Assessment

To date, the Town has focused on available funding sources. GIS mapping of the drainage system and receiving waters is ongoing and water quality testing began during Year 2. WLA assessment will follow.

Part IV. Summary of Information Collected and Analyzed

Permit Year 1 Activities and Information

During Permit Year 1, the Town reviewed the local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they adequately regulated, and were in conformance with the Massachusetts Stormwater Management Policy. Minor revisions may be required for informing local project proponents of the Phase II one-acre NPDES requirement.

The Town received a project approval certificate from the Massachusetts Water Abatement Trust State Revolving Fund for $238,000 and continued the process of mapping its storm drainage system. The Town also began field screening of outfalls for both dry and wet conditions under the SRF program.

Permit Year 2 Activities and Information

During Permit Year 2, an outfall inspection program identified 170 outfall locations, and performed dry and wet weather field screening at 67 of the locations. These locations were field screened for the following:

1. pH;
2. Temperature;
3. Total Dissolved Solids;
4. Specific Conductance; and
5. Turbidity.

Based on the field data, 8 of the outfall locations were resampled for the following during 2004:

1. E-coli;
2. Total Phosphorous,
3. Dissolved Phosphorous,
4. Ammonia,
5. Surfactants, and
6. Total Suspended Solids.

Of these samples, one location had elevated levels of e-coli above the State's Secondary Maximum Contaminant level of 126 (colonies/100 mL). Elevated levels of e-coli may be representative of warm blooded animals (such as humans) or cold blooded animals. Following the wet weather testing and further discussions with the Town, additional testing of Fecal Coliform bacteria or Fecal Strep may be recommended to ascertain potential sources.

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism. The Town has also taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar has been schedule by the PCHA for Summer 2004.

Permit Year 3 Activities and Information

During the Permit Year 3, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued it's long range GIS mapping of its storm drainage system and increased its public awareness efforts. Work was conducted under Massachusetts Water Abatement Trust State Revolving Funds.

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism. The Town has also taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer 2005.

Permit Year 4 Activities and Information

During the Permit Year 3, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued it's long range GIS mapping of its storm drainage system and increased its public awareness efforts. The Town also closed its expenditures from the Massachusetts Water Abatement Trust State Revolving Fund for its project and is currently seeking alternative funding sources from Town Meeting.

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism. The Town has also taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer 2006 and one has been scheduled for Summer 2007.

Permit Year 5 Activities and Information

During the Permit Year 5, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they continue to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. The Town also continued it's long range GIS mapping of its storm drainage system and increased its public awareness efforts. The Town also is currently seeking alternative funding sources from Town Meeting.

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism. The Town has also taken part in employee training seminars sponsored by the Plymouth County Highway Association (PCHA), and will continue to improve its good housekeeping programs. An employee training seminar was conducted by the PCHA during the Summer 2007 and one has been scheduled for Summer 2008.

Richard A. Harris
Highway Surveyor
781-293-2822
FAX 781-293-5763

TOWN OF HANSON

Office of the
HIGHWAY SURVEYOR
Hanson, MA 02341

April 29, 2008

Ann Herrick - CIP
U.S. Environmental Protection Agency - Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Fred Civian, Stormwater Coordinator
Massachusetts Department of Environmental Protection
One Winter Street - 5th Floor
Boston, MA 02108

RE: NPDES Phase II Small MS4 General Permit
Town of Hanson, Massachusetts Annual Report
MADEP Transmittal No. W-035899
EPA Permit Number MA041037

Dear Madam/Sir:

The Town of Hanson, Massachusetts is pleased to provide you with the attached National Pollutant Discharge Elimination System (NPDES) Phase II Small MS4 General Permit Annual Report for the period from April 1, 2007 to March 31, 2008. In general, the Town has developed a stormwater management program and will continue to implement activities in accordance with regulatory requirements and as available funding will allow.

Should you have any questions, please do not hesitate to call me at (781) 293-2822.

Sincerely,

Richard Harris
Highway Surveyor

P
5/1/08

Municipality/Organization: Town of Hanson, MA

EPA NPDES Permit Number: MA041037

MaDEP Transmittal Number: W-035899

Annual Report Number
& Reporting Period: No. 5: April 1, 2007 -March 31, 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: **Richard Harris** Title: **Town Highway Surveyor**

Telephone #: **781-293-2822** Email:hansonhighway@hotmail.com

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: James A. Egan

Printed Name James A. Egan, Chairman

Title: Board of Selectmen

Date: **April 29, 2008**

April 29, 2008

Ann Herrick - CIP
U.S. Environmental Protection Agency - Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Fred Civian, Stormwater Coordinator
Massachusetts Department of Environmental Protection
One Winter Street - 5th Floor
Boston, MA 02108

RE: NPDES Phase II Small MS4 General Permit
Town of Hanson, Massachusetts Annual Report
MADEP Transmittal No. W-035899
EPA Permit Number MA041037

Dear Madam/Sir:

The Town of Hanson, Massachusetts is pleased to provide you with the attached National Pollutant Discharge Elimination System (NPDES) Phase II Small MS4 General Permit Annual Report for the period from April 1, 2007 to March 31, 2008. In general, the Town has developed a stormwater management program and will continue to implement activities in accordance with regulatory requirements and as available funding will allow.

Should you have any questions, please do not hesitate to call me at (781) 293-2822.

Sincerely,

Richard Harris
Highway Surveyor