



# TOWN OF HANSON

Office of the  
HIGHWAY SURVEYOR  
797 Indian Head Street  
Hanson, MA 02341

Robert F. Brown Jr  
Highway Surveyor  
781-293-2822  
rbrown@hanson-ma.gov

May 2, 2016

Glenda Velez  
U.S. Environmental Protection Agency - Region 1  
5 Post Office Square – OEP06-01  
Boston, MA 02109-3912

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

RE: *NPDES General Permit for Storm Water Discharges from Small MS4s  
Annual Report for the Town of Hanson, Massachusetts (Permit Year 13)*

*EPA Permit Number: MA041037/MADEP Transmittal Number: W035899*

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, 2015 to March 31, 2016. 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,

Robert Brown  
Highway Surveyor

cc: Bruce Young, Chairman of the Board of Selectman  
Natalie Pommersheim, Environmental Partners Group, Inc.

**Municipality/Organization: Town of Hanson, MA**

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**EPA NPDES Permit Number: MA041037**

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**MaDEP Transmittal Number: W-035899**

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**Annual Report Number  
& Reporting Period: No. 13: April 1, 2015 -March 31, 2016**

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: **Robert Brown**

Title: **Town Highway Surveyor**

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

Email: **highway@hanson-ma.gov**

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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: 

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Printed Name: **Michael McCue**

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Title: **Town Administrator**

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Date: **5/2/16**

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## **Part II. Self-Assessment**

In general, the Town of Hanson's stormwater management activities for the thirteenth year of the General Permit (April 1, 2015 through March 31, 2016) were in conformance with the Notice of Intent (Massachusetts DEP form BRP WM 08A) and schedule submitted in July 2003. The Town 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 Thirteen focused on upgrading the Town's local ordinances. Toward that end, a complete review of Town Bylaws was conducted, and two new bylaws were drafted for the prevention of illicit discharges and control of construction-related stormwater impairment. These bylaws were passed at Town Meeting during Permit Year Eleven.

During Permit Year Thirteen, the Town also continued with control measures that were initiated during the previous permit years, 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
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).	Continue updating, seek alternative funding opportunities (such as 604b and 319 grants).
2	Develop Brochures	DPW	Quarterly Mailings	Water department mailings and water quality updates.	Continued mailings.
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

#### 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
4	Water Quality Testing	DPW	2 Rounds of Water Quality Sampling of Priority Water Bodies	On hold pending issuance of new EPA General Permit.	Continue water quality testing in accordance with new EPA General Permit. Visual checks of outfalls are planned this year.
5	Community Cleanup Days	DPW	Annually	Conducted in Spring 2015 – Green Up Clean Up April 11, 2015	Green Up Clean Up Scheduled for April 2, 2016

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
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.
7	Water Quality Testing	DPW	Testing of Priority Water Bodies	On hold pending issuance of new EPA General Permit.	Continue water quality testing in accordance with new EPA General Permit. Visual checks of outfalls planned this year.
8	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions and Action	BMP Complete.	BMP Complete.
9	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Illicit Discharge violations	Ongoing to comply with local bylaws, state and federal requirements. The Permit was enforced by the Town during Permit Year 13 and there were no violations.	Ongoing to comply with local bylaws, state and federal requirements.
10	Misconnection/Illegal Dumping and Correction	DPW, BOH	Connectivity Mapping, Bylaw Enforcement and Fines	Continue GIS mapping. The bylaw was enforced by the Town during Permit Year 13 and there were no violations.	Continue GIS mapping and local bylaw enforcement

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
11	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	Reviewed regulations and drafted bylaw which was reviewed by Town Departments, and subsequently passed at Town Meeting.	BMP Completed.
12	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements. The Permit was enforced by the Town during Permit Year 13 and there were no violations.	Ongoing to comply with local bylaws, state and federal requirements.
13	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

#### 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
14	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	BMP Completed.	BMP Completed.
15	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements. The Permit was enforced by the Town during Permit Year 13 and there were no violations.	Ongoing to comply with local bylaws, state and federal requirements.

## 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 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14 (if applicable)
16	Improved Street Sweepings	DPW		Street sweeping program in the Winter/Spring 2016 (62 miles of road)	Street sweeping program in the Winter/Spring 2017 (62 Miles of Road)
17	Improved Catch Basin Cleanings	DPW		Catch basin cleaning program in the Winter/Spring 2016 (2,003 CBs)	Catch basin cleaning program in the Winter/Spring 2017
18	Household Hazardous Waste Days	B.O.H.		Annual Collection South Shore Recycling Coop. (2 Dates in 2015)	Annual Collection South Shore Recycling Coop.
19	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
20	Employee Training	DPW	Seminar Attendance	Employees attended storm water training seminar held at Plymouth County Highway Association	Will continue to identify and attend appropriate training sessions

### 6a. Additions

21	HHHW drop off locations/days	Department of Public Works	Number of drop off locations	Participation in the South Shore Recycling Cooperative, where 14 local communities open up their local HHHW collection days to members of the cooperative.	Continue to participate in the South Shore Recycling Cooperative.
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**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 13 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 14
22	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
23	Water Quality Testing	DPW	Semi-Annual Water Quality Testing	On hold pending issuance of new EPA General Permit.	Continue water quality testing in accordance with new EPA General Permit. Outfalls to be visually checked this year.
24	Stormwater Modeling	DPW	Needs Assessment for Category 5 Water Bodies	Continued mapping connectivity of outfall locations.	Continue outfall and catch basin mapping, and connectivity
25	Misc. Structural BMPs as Needed	DPW	i.e. Construction Improvements	None to date (scheduled for next year as needed)	PVC Drainage Pipe Structural Repairs (approx 300, 100 & 75 ft) And Approximately 30 Catch Basins to Repair.
26	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

**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 website, 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 scheduled 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 its 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 website, 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 4, 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 its 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 website, 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 and 6 Activities and Information**

During the Permit Years 5 and 6, 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 its 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 website, 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 2008.

### **Permit Years 7 - 13 Activities and Information**

During the Permit Years 7 through 13, the Town continued its review of local, state and federal bylaws relative to stormwater and aquifer protection, and determined that two new bylaws were required to be drafted. Those were drafted and underwent review by the Town Departments prior to presenting the Bylaws at Town Meeting. The bylaws were passed at Town Meeting during year 11. The Town also continued its long range GIS mapping of its storm drainage system and increased its public awareness efforts. Hanson DPW completed a directional drainage survey and mapping effort of 85% of the Town in March 2010. The Town also is currently seeking alternative funding sources from Town Meeting.

In Permit Year 13, the Town worked with the Plymouth County Mosquito Control Board to remove blockages, brush and other obstructions from ditches and streams to prevent overflows or stagnation.

The Town will continue to provide updates to the public through water bill mailings and postings on the local website, 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.