NPDES Phase II
Small MS4 General Permit
Annual Report

Municipality: Town of Blackstone
EPA NPDES Permit Number: MAR041093
DEP Tracking Number: W-036393
Annual Report Number: Year 1
Report Period: March 2003 through May 2004
Part I. General Information

Contact Person: Wayne E. Bates, PhD, PE
Title: Town Engineer

Telephone #: 508-883-9331
Email: wbates@townofblackstone.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: Raymond W. Houle, Jr.
Title: Town Administrator
Date: June 1, 2004

Part II. Self-Assessment

The Town of Blackstone has completed the required self-assessment and have determined that our municipality is in compliance with all permit conditions, except for the following provisions:


Part III. Summary of Minimum Control Measures

See attached tables.

Part IV. Summary of Information Collected and Analyzed

- Existing catch basins and storm manholes have been located using GPS equipment and mapped within town-wide drainage basemap.
- Several catch basins have been cleaned and inspected.

Part V. Program Outputs & Accomplishments (OPTIONAL)
Storm Water Management Plan  
Year 1 – Annual Update  
Part III - Summary of Minimum Control Measures

Table 1 - Public Education and Outreach

<table>
<thead>
<tr>
<th>BMP-ID</th>
<th>BMP - Description</th>
<th>Responsible Person</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Year 1</th>
<th>Planned Activities – Year 2</th>
</tr>
</thead>
</table>
| 1-1    | Provide Educational Materials to Residents | Town Engineer        | Post information annually in the Blackstone Enlightener and through informational pamphlets (for example, see BMP 2-2) | Forwarded EPA construction activity poster to Planning Board. Provided website link on town website about construction activities. Posted construction activity notice on local cable access channel. | Post additional information on website.  
BMR to produce educational videos to air on local access cable channel. |
| 1-2    | Evaluate Potential for Classroom Education | BMR – Science Department | 1. Meet with BMR Science Department  
2. Evaluate development of curriculum for HS students | Met with BMR Science Dept. Through a grant from a local power plant (ANP) BMR has purchased several items to conduct classroom exercises in stormwater education.  
BMR has reviewed the curriculum to include stormwater education | Produce videos for general public and for elementary age students.  
Prepare informational brochure to mailed to residents. |
### Storm Water Management Plan

**Year 1 – Annual Update**

**Part III - Summary of Minimum Control Measures**

**Table 2 - Public Participation and Involvement**

<table>
<thead>
<tr>
<th>BMP-ID</th>
<th>BMP</th>
<th>Responsible Person</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Year 1</th>
<th>Planned Activities Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1</td>
<td>Request Feed-back on the Plan from Town Officials</td>
<td>Town Engineer</td>
<td>Send letter requesting input on the Storm Water Management Plan to Town boards and officials</td>
<td>Sent memo to Zoning Board and Planning Board</td>
<td>Follow-up with each board to discuss stormwater issues</td>
</tr>
<tr>
<td>2-2</td>
<td>Informational Questionnaire to Residents</td>
<td>Town Engineer</td>
<td>Send pamphlet/questionnaire to residents requesting information about storm drain systems (e.g., if they are aware of pipes in their yard, foaming, discoloration, etc)</td>
<td>Discussed with BMR Science Department about preparing pamphlet.</td>
<td></td>
</tr>
<tr>
<td>2-2</td>
<td>Revised</td>
<td>BMR Science Department</td>
<td></td>
<td></td>
<td><strong>HS science class to prepare pamphlet in Fall/Winter 2004/2005</strong></td>
</tr>
<tr>
<td>2-3</td>
<td>Status Updates to Town Officials</td>
<td>Town Engineer</td>
<td>Present status update to municipal boards on annual basis</td>
<td>Provided update on March 11, 2004</td>
<td>Provide update in March 2005</td>
</tr>
</tbody>
</table>

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Town of Blackstone

--- Annual Update – Year 1 ---

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### Table 3 - Illicit Discharge Detection and Elimination

<table>
<thead>
<tr>
<th>BMP-ID</th>
<th>BMP</th>
<th>Responsible Person</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Year 1</th>
<th>Planned Activities Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1</td>
<td>Storm Sewer System - Existing Conditions</td>
<td>Town Engineer</td>
<td>Prepare base maps</td>
<td>Purchased GPS equipment and hired HS intern to locate visible CBs and MHs. Structures have been loaded into a stormwater base map using AutoCAD 2004.</td>
<td>Charles River Water Shed Assoc. will be locating major outfalls within the community. Engineering will plot outfalls in base map.</td>
</tr>
<tr>
<td>3-2</td>
<td>Request information from Town residents about illicit discharges</td>
<td>Town Engineer</td>
<td>See BMP 2-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-2</td>
<td>Revised</td>
<td>BMR Science Department</td>
<td>See BMP 2-2 (revised)</td>
<td>See BMP 2-2 (revised)</td>
<td></td>
</tr>
</tbody>
</table>
| 3-3    | Storm Sewer Inspections                  | Town Engineer      | 1. Develop inspection checklist  
2. Prioritize inspections  
3. Create database for existing conditions  
4. Identify source(s) of illicit discharge(s) | Created Catch Basin Inspection Form for use by DPW employees when cleaning CBs | Continue to clean and inspect CBs |
| 3-4    | Develop Improvement Program              | Town Engineer      | 1. Prepare improvement plan  
2. Evaluate repair costs  
3. Prioritize upgrades based on | No activity planned until Permit Year 3 | No activity planned until Permit Year 3 |
## Storm Water Management Plan
### Year 1 – Annual Update
#### Part III - Summary of Minimum Control Measures

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Responsible Person(s)</th>
<th>Measure and Cost</th>
<th>Progress on Goal(s) – Year 1</th>
<th>Planned Activities Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-5</td>
<td>Capital Improvement Plan</td>
<td>Town Engineer</td>
<td></td>
<td>No activity planned until Permit Year 4</td>
<td>No activity planned until Permit Year 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1. Prepare multi-year capital improvement plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Present plan to Capital Outlay Committee</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-6</td>
<td>Implement Capital Improvement Plan</td>
<td>Town Engineer/DPW</td>
<td></td>
<td>No activity planned until Permit Years 4/5</td>
<td>No activity planned until Permit Years 4/5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Implement improvement program to the extent allowable within capital and operational means</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table 4 – Construction Site Runoff Control

<table>
<thead>
<tr>
<th>BMP-ID</th>
<th>BMP</th>
<th>Responsible Person</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Year 1</th>
<th>Planned Activities Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-1</td>
<td>Site Plan Review</td>
<td>Town Engineer/Planning Board</td>
<td>Meet with Planning Board to discuss storm water requirements</td>
<td>Memo sent to Planning Board and information placed on town website</td>
<td>Follow-up with Planning Board</td>
</tr>
<tr>
<td>4-2</td>
<td>Construction Storm Water Ordinance</td>
<td>Planning Board</td>
<td>Evaluate opportunities to modify planning by-laws to include storm water ordinance</td>
<td>No progress</td>
<td>Discuss with Planning Board</td>
</tr>
<tr>
<td>4-3</td>
<td>Enforcement</td>
<td>Planning Board</td>
<td>Evaluate inspection and enforcement opportunities</td>
<td>No progress</td>
<td>Discuss with Planning Board</td>
</tr>
</tbody>
</table>
# Storm Water Management Plan

## Year 1 – Annual Update

### Part III - Summary of Minimum Control Measures

## Table 5 – Post-Construction Runoff Control

<table>
<thead>
<tr>
<th>BMP-ID</th>
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<th>Planned Activities Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-1</td>
<td>Ordinance – Post-Construction</td>
<td>Planning Board/DPW/Town Engineer</td>
<td>Evaluate opportunities to modify planning regulations requiring contractors to guarantee work</td>
<td>No progress</td>
<td>Discuss with Planning Board</td>
</tr>
<tr>
<td>5-2</td>
<td>Enforcement</td>
<td>Planning Board/DPW/Town Engineer</td>
<td>Evaluate inspection and enforcement opportunities</td>
<td>No progress</td>
<td>Discuss with Planning Board</td>
</tr>
</tbody>
</table>
Memorandum

To: Planning Board and Zoning Board

C: Board of Selectmen

From: Wayne Bates

RE: Storm Water Permits for Construction Projects

Date: March 11, 2004

Attached please find information about the EPA storm water regulations as they pertain to construction activities. Please advise applicants that these regulations apply to any project that will disturb one acre or more of land, regardless of whether the Planning Board or Zoning regulations apply.

If applicants have questions about the regulations and their applicability, please provide them with the EPA storm water website address for construction activity, which is as follows:
http://cfpub.epa.gov/npdes/stormwater/cgp.cfm

S:\Engineering\General Correspondence\Internal\Planning Board\M040311_EPA_stormwater.doc
Chuck, could you put the following messages on our website in an effort to meet certain public education criteria within our storm water permit.

**Notice to Developers - Storm Water Permit Requirements**
All developers in the Town of Blackstone should be aware that the Environmental Protection Agency has strict regulations regarding storm water generated from construction activities. Please be advised that as of March 10, 2003, any project that disturbs one acre or more of land is required to comply with the EPA storm water requirements. Additional information about this program is available at:
http://cfpub.epa.gov/npdes/stormwater/cgp.cfm

**Public Education About Storm Water**
Stormwater discharges are generated by runoff from land and impervious areas such as paved streets, parking lots, and building rooftops during rainfall and snow events that often contain pollutants in quantities that could adversely affect water quality. Most stormwater discharges are considered point sources and require coverage by an NPDES permit. The primary method to control stormwater discharges is through the use of best management practices. Information about the EPA storm water program can be found at the EPA website:
http://www.epa.gov/NE/npldes/stormwater/

Thanks,
Wayne E. Bates, PhD, PE
Blackstone Town Engineer
15 St. Paul Street
Blackstone, MA 01504
Catch Basin Inspection Form

Street: ________________________________

Date: ___________  Inspected by: ___________

Cleaned? Yes  No

General Sketch

North

CB__  CB__