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| **Municipality/Organization:** | **Shrewsbury, Massachusetts** |
| **EPA NPDES Permit Number:** | **MAR041158** |
| **MaDEP Transmittal Number:** | **W-036325** |
| **Annual Report Number & Reporting Period:** | **No. 2: March 06-March 07** |

5-1-07

# NPDES PII Small MS4 General Permit Annual Report

**Part I. General Information**

Contact Person: Jack Perreault Title: Town Engineer

Telephone #: (508) 841-8502 Email: jperreau@th.ci.shrewsbury.ma.us

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: Michael Hale

Title: Assistant Town Manager

Date: April 27, 2007

**Part II. Self-Assessment**

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

**Current State of the Phase II Program in Shrewsbury:**

*The Town currently budgets $5,000 per year for the Phase II Program. This cost does not include money used for catch basin cleaning and street sweeping, which is currently budgeted separately with the Town Highway Department. Occasionally funds have been made available for the Phase II Program from other sources within town budget areas as well.*

*Last year we noted that budget constraints would impact the Town's ability to create and enforce a bylaw required for BMP's #5, 8, 9, and 13 as described in the Town's Notice of Intent for Discharges from Small MS4s. The Town continues to move forward with the bylaw creation and decided that the Sewer Commission will have jurisdiction of the regulations when in place. A proposed bylaw will be placed as a warrant article for Town Meeting in May of 2007. Additionally, we noted budget constraints with fulfilling the GIS outfall mapping. The Town will be renting GPS equipment during permit year five with the intent to purchase equipment that same year.*

*For residential subdivision projects submitted to the town Planning Board and Conservation Commission, we continue to require groundwater recharge for each lot reviewed where soil conditions are suitable. A typical example would be a drywell to recharge roof runoff from a single family home. This helps control post-construction storm water runoff, provides a broader recharge area, and often provides recharge volumes above and beyond what is required by the Massachusetts Stormwater Management Policy.*

*In years past, the Town had not allowed the use of hydrodynamic storm water separator units for public drainage projects due to maintenance concerns. After meeting with manufacturers and reviewing maintenance guidelines, the Town during permit year three started approving the usage of those storm water BMP's for public projects and private projects that will become public, such as subdivision roadways. The Town continues its policy to encourage the use of innovative storm water BMP's for private projects as well.*

*For permit year five the Town will focus on three major components of the Phase II program - the creation of a bylaw, illicit connections detection and elimination, and the GIS mapping of storm water outfalls.*

## 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 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 01 | Pamphlet Mailings | Engineering & Others | # Pamphlets Mailed | One pamphlet mailed to approximately 11,015 subscribers of municipal water/sewer utilities | |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

### 1a. Additions

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## 2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 03 | Catch Basin Stenciling | Engineering Dept. | # Catch Basins Stenciled | 110 Crystal Cap markers were installed near Lake Quinsigamond | Additional markers to be installed. |
| Revised | | | | | |
| 04 | Water Monitoring & Sampling | Health Dept. | Sample Data | Samples for E Coli and Total Coliform bacteria were taken on a weekly basis during the bathing season in Lake Quinsigamond. | Same as Permit Year 4. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 2a. Additions

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## 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 05 | Local Ordinance | Engineering Dept. | Town Warrant Article | Research of available information for the creation of a Town Bylaw. A draft bylaw was created. | Continue Town Bylaw development. Place bylaw as a warrant article for Town Meeting |
| Revised | | | | | |
| 06 | Storm Sewer Map | Engineering Dept. | GIS Map | GIS Map currently under production for entire town. | Continue GIS mapping. |
| Revised | | | | | |
| 07 | | | | Highway Department continued to monitor drainage utilities during annual maintenance. | Training as needed. |
| Revised | Public Employee Education | Engineering Dept. | Training implemented prior to Phase II program | | |
| 07 | Public Employee Education | Engineering Dept. | Training Sessions | | Training as needed. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 3a. Additions

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## 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 05 | Local Ordinance | Engineering Dept. | Town Warrant Article | Research of available information for the creation of a Town Bylaw. A draft bylaw was created. | Continue Town Bylaw development. Place bylaw as a warrant article for Town Meeting |
| Revised | | | | | |
| 08 | Mass. Stormwater Policy | Engineering Dept. | # Projects Reviewed | 3 Projects submitted to the Conservation and/or Planning Board. | Continue reviewing projects to comply with Mass. Stormwater Management Policy. |
| Revised | | | | | |
| 09 | Site Plan Reviews | Engineering Dept. | # Projects Reviewed | Research of available information for the creation of a Town Bylaw. A draft bylaw was created. | Continue Town Bylaw development. Place bylaw as a warrant article for Town Meeting |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 4a. Additions

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## 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 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 05 | Local Ordinance | Engineering Dept. | Town Warrant Article | Research of available information for the creation of a Town Bylaw. A draft bylaw was created. | Continue Town Bylaw development. Place bylaw as a warrant article for Town Meeting. |
| Revised | | | | | |
| 08 | Mass. Stormwater Policy | Engineering Dept. | # Projects reviewed | 3 projects submitted to the Conservation Commission and/or Planning Board. | Continue reviewing projects to comply with Mass. Stormwater Management Policy. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 5a. Additions

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## 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 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 10 | Catch Basin Cleaning | Highway Dept. | Catch Basins Cleaned | Catch Basins were cleaned. | Continue catch basin cleaning. |
| Revised | | | | | |
| 11 | Highway and Light Dept. Garage | Engineering Dept. | # Inspections | Two inspections were done at the Light Dept., Highway Dept., and Water/Sewer Dept. garage facilities. | Continue inspections. |
| Revised | | | | | |
| 12 | Street Sweeping | Highway Dept. | Streets Swept | All municipal streets were swept. | Continue street sweeping. |
| Revised | | | | | |
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| Revised | | | | | |
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| Revised | | | | | |

## 6a. Additions

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## 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 4 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 5 |
|---|---|---|---|---|---|
| 05 | Local Ordinance | Engineering Dept. | Town Warrant Article | Research of available information for the creation of a Town Bylaw. A draft bylaw was created. | Continue Town Bylaw development. Place bylaw as a warrant article for Town Meeting. |
| Revised | | | | | |
| 08 | Mass. Stormwater Policy | Engineering Dept. | # Projects reviewed | 9 Projects submitted to the Conservation Commission and/or Planning Board. | Continue reviewing projects to comply with Mass. Stormwater Management Policy |
| Revised | | | | | |
| 13 | | | | Research of available information for the creation of a Town Bylaw. | No longer continuing pursuit of Town Bylaw in anticipation of the Massachusetts Stormwater Management Policy becoming a regulation under the Massachusetts Wetlands Protection Act. Additionally, the Town has discovered that developers prefer treatment units over more traditional BMP's, and the Town is accepting usage of units for public projects and private development projects that will become public when the Town accepts roadways. |
| Revised | Stormwater Treatment Units | Engineering | Town Warrant Article | | |
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| Revised | | | | | |
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## 7a. Additions

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**7b. WLA Assessment**

*During Year 5 - Public participants will install catch basin markers near Lake Quinsigamond and Old Mill Pond.*

## Part IV. Summary of Information Collected and Analyzed

*Water samples were tested weekly during the bathing season at Sunset Beach for E. Coli and Total Coliform Levels. The Town Health Department has reported that no violations of the water quality standards for bathing beaches were detected at Sunset Beach during 2006.*