

MAY 5 2009

**Municipality/Organization:** Newbury

**EPA NPDES Permit Number:** MAR041212

**MaDEP Transmittal Number:** W-040791

**Annual Report Number  
& Reporting Period:**

April 1, 2008 – March 31, 2009

P

**NPDES PII Small MS4 General Permit  
Annual Report  
(Due: May 1, 2009)**

**Part I. General Information**

**Contact Person:** Mr. Doug Packer

**Title:** Newbury Conservation Commission (Chmn.)

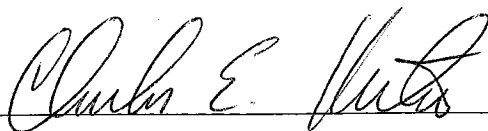
**Telephone #:** 978-462-1372

**Email:** conscom@townofnewbury.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:** Charles E. Kostro

**Title:** Town Administrator

**Date:**

4/30/09

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

The Town of Newbury has completed the required self-assessment and has determined that our municipality is in permit conditions.

### 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 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                     | Planned Activities – Permit Year 7                                                          |
|----------|--------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1-1      | Article/brochure about stormwater to be included in the tax bill once annually | Stormwater Advisory Committee     | Newsletter/Brochure distributed to all households in Newbury.       | Brochure from EPA website sent in '05 and was sent in the property tax bill in July '05.                                                                                          | Continue throughout permit term.                                                            |
| Revised  |                                                                                | Greenscapes North Shore Coalition |                                                                     | The Town of Newbury has partnered with Greenscapes to mail out the "Greenscapes Reference Guide" to the Town's households.                                                        | Continue using Greenscapes to provide educational materials to Newbury households.          |
| 1-2      | Educate dog owners about picking up dog waste                                  | Town Clerk                        | Distribute Fact Sheet to Dog Owners.                                | Fact Sheet distributed to all dog owners with license renewals during each permit year.                                                                                           | Continue distributing Fact Sheet in Permit Year 7.                                          |
| 1-3      | Stormwater education program for school children                               | Stormwater Advisory Committee     | Inquire about presentation to Middle or Elementary school children. | Governor's Academy teacher or high school student will volunteer for stormwater education program.                                                                                | Implement education program.                                                                |
| Revised  |                                                                                |                                   |                                                                     | Inquiry was made to elementary/middle schools regarding stormwater education program. At the time, the schools could not fit stormwater education into their current programming. | Continue to make inquiries at the elementary/middle schools regarding stormwater education. |
| 1-4      | Maintain pet waste clean-up signs at schools, parks, and beaches               | Highway Department                | Signs posted.                                                       | Signs are posted and maintained.                                                                                                                                                  | Continue to post and maintain signs during Permit Year 7.                                   |
| 1-5      | Annual update of SWMP at a televised Selectmen's meeting                       | Highway Dept. and/or ConComm      | Update Board of Selectmen on SWMP status.                           | The Board of Selectmen were updated on progress and received a copy of this annual report for Permit Year 5.                                                                      | Continue to update the Board of Selectmen on progress made during Permit Year 6.            |

#### 1a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## 2. Public Involvement and Participation

| BMP ID # | BMP Description                                                        | Responsible Dept./Person Name            | Measurable Goal(s)                                                                                       | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                              | Planned Activities – Permit Year 7                                                                                                                                                                         |
|----------|------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-1      | Form Stormwater Advisory Committee                                     | Highway Dept., ConComm, Planning, Health | Form Committee within 12 months of submission of NOI. Meet twice annually thereafter during permit term. | Stormwater Advisory Committee was formed during Permit Year 4. During Permit Years 5 and 6, the Stormwater Advisory Committee developed a Stormwater Management Bylaw.                                     | Assuming the Stormwater Management Bylaw passes at Town Meeting in May 2009, the current Stormwater Advisory Committee will dissolve and the Planning Board will become the Stormwater Advisory Committee. |
| 2-2      | Comply with state public notification guidelines at MGL Ch. 39 s. 23B. | Town Clerk                               | Notices posted in library and current locations.                                                         | Meetings of the Stormwater Advisory Committee during Permit Year 6 complied with the Open Meeting Law.                                                                                                     | Assuming the Stormwater Management Bylaw passes at Town Meeting in May 2009, the current Stormwater Advisory Committee will cease having meetings.                                                         |
| 2-3      | Stencil catch basins with "don't dump" message                         | Highway Department                       | Identify and prioritize catch basins to be stenciled with "Don't Dump" message.                          | The catch basins within the regulated area have been identified and prioritized for stenciling (about 27 catch basins within regulated area). Stenciled catch basins were maintained during Permit Year 6. | Measure Completed.                                                                                                                                                                                         |
| Revised  |                                                                        |                                          |                                                                                                          |                                                                                                                                                                                                            | Continue to maintain stenciled catch basins during Permit Year 7.                                                                                                                                          |

## 2a. Additions

| BMP ID # | BMP Description                      | Responsible Dept./Person Name | Measurable Goal(s)                                    | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                              | Planned Activities – Permit Year 7                                                                                                                                                                  |
|----------|--------------------------------------|-------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-4      | Household Hazardous Waste Collection | Town Clerk                    | Track number of brochures picked up by Town residents | During Permit Year 6, the Town Clerk provided a schedule household hazardous waste collections being held by neighboring communities that Newbury residents can use to drop off hazardous waste materials. | During Permit Year 7, continue to provide list of household hazardous waste collections being held by neighboring communities that Newbury residents can use to drop off hazardous waste materials. |

### 3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description                                                             | Responsible Dept./Person Name | Measurable Goal(s)                                                                                    | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                         | Planned Activities – Permit Year 7                                                                                                                                                                |
|----------|-----------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-1      | Conduct dry weather outfall screening                                       | Highway Department            | Locate Outfalls within regulated area during first year of permit term. Percent of Outfalls screened. | Outfalls within regulated area are located.                                                                                                                                                                                                                                                                                           | Perform dry weather screening at priority Outfalls during Permit Term.                                                                                                                            |
| Revised  |                                                                             |                               |                                                                                                       | Dry weather screening of outfalls was not performed during Permit Year 6 because of funding and staffing limitations.                                                                                                                                                                                                                 | During Permit Year 7, Newbury will attempt to partner with outside entities for dry weather screening, most likely the Parker River Clean Water Association.                                      |
| 3-2      | Map stormwater outfalls                                                     | Highway Department            | Locate outfalls on a map within regulated area.                                                       | Outfalls within regulated area are mapped.                                                                                                                                                                                                                                                                                            | Measure completed.                                                                                                                                                                                |
| Revised  |                                                                             | Conservation Commission       |                                                                                                       | Upon further review of town mapping during Permit Year 5, it was discovered that all outfalls in the Old Town and Plum Island sections of Newbury were mapped, but that outfalls in the Byfield section were not. Because of funding and staffing limitations, mapping of the Byfield section was not completed during Permit Year 6. | During Permit Year 7, progress will be made towards mapping all the outfalls in the Byfield section of Newbury. Upon completion of mapping the Byfield section, outfall mapping will be complete. |
| 3-3      | Assess need for stormwater GIS layer                                        | Highway Department            | Decision on whether to go forward with a stormwater GIS within first two years of the permit.         | This measure is completed. Because of the small size of regulated area within Newbury, there is not an immediate need for stormwater GIS at this time.                                                                                                                                                                                | Measure completed for Permit Year 7.                                                                                                                                                              |
| 3-4      | Develop and implement plan to identify and remove non-stormwater discharges | Highway Department            | Number of illicit connections found and removed.                                                      | No progress to report at this time.                                                                                                                                                                                                                                                                                                   | Stormwater Advisory Committee to address and provide plan by end of second permit year as per schedule.                                                                                           |

| BMP ID #       | BMP Description                                                            | Responsible Dept./Person Name | Measurable Goal(s)                                                                             | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                         | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|----------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-4<br>Revised |                                                                            | Board of Health               | Present to Town Meeting by end of seventh permit year                                          | No progress made on developing and implementing a plan to identify and remove non-stormwater discharges during Permit Year 6. However, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw include (1) prohibiting illicit connections and unauthorized discharges, and (2) requiring the removal of all illicit connections. | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Assuming the bylaw passes at Town Meeting, regulations will be developed to (1) prohibit illicit connections and unauthorized discharges and (2) require the removal of illicit connections. A plan to identify and remove non-stormwater discharges will also be developed. |
| 3-5            | Develop a bylaw to require inspection of construction to a municipal sewer | Building Inspection Dept.     | Draft By-Law for properties connected to a municipal sewer system by end of first permit year. | Due to small number of sewer connections within regulated area of Newbury, this BMP has not received priority.                                                                                                                                                                                                                                                                     | This measure will be addressed upon formation of the Stormwater Advisory Committee.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Revised        |                                                                            |                               | Present to Town Meeting by end of seventh permit year                                          | During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw address illicit connections.                                                                                                                                                                                                                 | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Assuming the bylaw passes at Town Meeting, regulations will be developed to address illicit connections by requiring inspection of construction for correct connection to municipal sewers.                                                                                  |

### 3a. Additions

| BMP ID # | BMP Description                              | Responsible Dept./Person Name | Measurable Goal(s)                                           | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                            | Planned Activities – Permit Year 7                                                                                                                                                                                 |
|----------|----------------------------------------------|-------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-6      | Installation of vacuum sewers on Plum Island | Board of Health               | Connection of every household on Plum Island to sewer system | By Administrative Consent Order, the MADEP required that all households on Plum Island connect to a sewer system because households were unable to pass Title V regulations. All wastewater is now directed to the Newburyport Wastewater Treatment Plant, improving water quality to receiving waters. Approximately 24 letters were sent out to households that had not connected to the sewer system, and some households subsequently connected to the sewer system. | Because all households must connect to the sewer system, Newbury will continue sending letters and other enforcement actions during Permit Year 7 to ensure that all households are connected to the sewer system. |



#### 4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description                                                                                     | Responsible Dept./Person Name | Measurable Goal(s)                                                                          | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                  | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                                                                      |
|----------|-----------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-1      | Construction site Erosion Sediment Control Bylaw for construction sites greater than 1 acre in area | Conservation Commission       | Draft By-law by end of first permit year.                                                   | Stormwater management activities are presently conducted by Conservation Commission and Highway Dept. Formal creation of the Stormwater Advisory Committee is necessary prior to promulgating regulations. Committee will be in place prior to July '04.                                                                                                    | Draft By-Law to meet revised schedule.                                                                                                                                                                                                                                                                                                                                                  |
| Revised  |                                                                                                     |                               | Present to Town Meeting by end of seventh permit year                                       | During Permit Year 6, stormwater management activities were conducted by Conservation Commission and Highway Dept. During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives in the bylaw address construction site erosion and sediment control for construction sites greater than 1 acre. | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Upon passage at Town Meeting, regulations for site erosion and sediment control for construction sites will be developed. |
| 4-2      | Require a waste management plan at construction sites larger than one acre.                         | Conservation Commission       | Draft By-law by end of first permit year and present to Town Meeting in second permit year. | Stormwater management activities are presently conducted by the Conservation Commission and Highway Dept. Formal creation of the Stormwater Advisory Committee is needed prior to promulgating regulations. Committee will be in place prior to July '04.                                                                                                   | Draft By-Law for submittal to Town Meeting.                                                                                                                                                                                                                                                                                                                                             |

| BMP ID #       | BMP Description                          | Responsible Dept./Person Name | Measurable Goal(s)                                                                                | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                    | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                                                                        |
|----------------|------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4-2<br>Revised |                                          |                               | Present to Town Meeting by end of seventh permit year                                             | During Permit Year 6, stormwater management activities were conducted by Conservation Commission and Highway Dept. During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives in the bylaw address waste management plan at construction sites greater than 1 acre | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Upon passage at Town Meeting, regulations for waste management at construction sites greater than 1 acre will be developed. |
| 4-3            | Review site plans for stormwater impacts | Conservation Commission       | Policies for Site Plan Review developed. Commence Site Plan reviews by end of second permit year. | The Conservation Commission and Planning Board perform independent Site Plan reviews for stormwater impacts.                                                                                                                                                                                                                     | Creation of the Stormwater Advisory Committee will standardize review procedures and will cover development within the regulated area of Newbury.                                                                                                                                                                                                                                         |
| Revised        |                                          |                               |                                                                                                   | During Permit Year 6, the Conservation Commission and Planning Board performed independent Site Plan reviews for stormwater impacts.                                                                                                                                                                                             | The current procedure for reviewing site plans for stormwater impacts works well. Therefore, developing a new policy for reviewing site plans is not warranted. The proposed Stormwater Management Bylaw will impose stricter standards to minimize stormwater impacts.                                                                                                                   |
| 4-4            | Consider public input                    | Conservation Commission       | Number of Public Hearings held                                                                    | During Permit Year 6, all Conservation Commission hearings and Planning Board hearings were publicly noticed, allowing for public input.                                                                                                                                                                                         | During Permit Year 7, hearings will continue to be publicly noticed to allow for public input.                                                                                                                                                                                                                                                                                            |

| BMP ID # | BMP Description                       | Responsible Dept./Person Name | Measurable Goal(s)                                                                                                            | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                        | Planned Activities – Permit Year 7                                                                               |
|----------|---------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 4-5      | Inspect erosion and sediment controls | Building Inspection Dept.     | Develop procedure by end of first permit year, including inspection checklist. Commence reviews by end of second permit year. | Conservation Commission currently performs inspections of erosion controls for projects adjacent to wetlands.                                                                                        | Inspections will commence after formation of Committee and By-Law to include projects within the regulated area. |
| Revised  |                                       |                               | Develop inspection checklist end of sixth permit year.                                                                        | Conservation Commission performed inspections of erosion controls for projects adjacent to wetlands during Permit Year 6. An inspection checklist was not developed because of staffing limitations. | An inspection checklist will be developed during Permit Year 7.                                                  |

#### 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 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                      | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                             |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-1      | Develop a draft bylaw to apply Standards 2, 3, 4, 7, and 9 of the Massachusetts Stormwater Policy to the entire Town. Present to Town Meeting | Conservation Commission and/or Stormwater Advisory Committee | Develop By-Law by end of first permit year, and present to Town Meeting by end of second year. | Stormwater Standards are presently administered by the Conservation Commission for projects under the jurisdiction of the Wetlands Protection Act.                                                                                                                                                                                                 | Form Stormwater Advisory Committee, Develop by-Law and present for Town Meeting.                                                                                                                                                                                                                                                               |
| Revised  |                                                                                                                                               |                                                              | Present to Town Meeting by end of seventh permit year                                          | Stormwater Standards were administered by the Conservation Commission for projects under the jurisdiction of the Wetlands Protection Act during Permit Year 6. During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw, which applies the Massachusetts Stormwater Policy to the entire Town. | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Upon passage, the Massachusetts Stormwater Policy will apply to the entire Town. |
| 5-2      | Specify a stormwater BMP manual to be used for consistent design and performance standards                                                    | Conservation Commission and/or Stormwater Advisory Committee | BMP manual selected by end of first permit year.                                               | Intended members of the Committee have indicated that adoption of Mass. Stormwater Guidelines as standard manual is likely.                                                                                                                                                                                                                        | Form Stormwater Advisory Committee and develop By-Law.                                                                                                                                                                                                                                                                                         |
| Revised  |                                                                                                                                               |                                                              | Select BMP manual by end of sixth permit year.                                                 | During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw, which selects the Massachusetts Stormwater Policy BMP Manual as the standard manual.                                                                                                                                                 | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009 for approval.                                                                     |

| BMP ID # | BMP Description                                                                                            | Responsible Dept./Person Name                                | Measurable Goal(s)                                                                 | Progress on Goal(s) – Permit Year 6<br>(Reliance on non-municipal partners indicated, if any)                                                                                                                                                                       | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5-3      | Develop draft bylaw that ensures long-term maintenance of private structural BMPs. Present to Town Meeting | Conservation Commission and/or Stormwater Advisory Committee | Compliance with regulations, present to Town Meeting by end of second permit year. | Planning Board has regulations in place.                                                                                                                                                                                                                            | Stormwater Advisory Committee will adopt maintenance provision as part of By-Law. On schedule to complete by end of second permit year.                                                                                                                                                                                                                                         |
| Revised  |                                                                                                            |                                                              | Present to Town Meeting by end of sixth permit year.                               | Existing Planning Board regulations were used during Permit Year 6. During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives in the bylaw address long-term maintenance of private structural BMPs. | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Upon passage at Town Meeting, regulations for long-term maintenance of private structural BMPs will be developed. |

#### 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 6 (Reliance on non-municipal partners indicated, if any)                                        | Planned Activities – Permit Year 7                                                                                                   |
|----------|----------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 6-1      | Identify sensitive receptors within the Town                               | Highway Department            | List of sensitive receptors developed, staff notified by the end of the first permit year.                                                 | Completed in July '04.                                                                                                            | Measure completed.                                                                                                                   |
| 6-2      | Street sweeping                                                            | Highway Department            | Percent of Streets swept annually.                                                                                                         | During the spring of Permit Year 6, all streets were swept as scheduled.                                                          | During Permit Year 7, streets will be swept in the spring and as necessary during the summer and fall.                               |
| 6-3      | Sidewalk sweeping                                                          | Highway Department            | Percent of Sidewalks swept annually.                                                                                                       | During the spring of Permit Year 6, all sidewalks were swept as scheduled.                                                        | Sidewalks will be swept as scheduled during Permit Year 7.                                                                           |
| 6-4      | Roadway deicing                                                            | Highway Department            | Amount of deicing compounds used.                                                                                                          | Quantity of deicing compounds documented.                                                                                         | Quantity of deicing compounds documented during Permit Year 7.                                                                       |
| 6-5      | Minimize impacts from vehicle washing                                      | Highway Department            | Establish if further vehicle washing controls are needed, and if so, evaluate and select the appropriate controls (i.e. containment area). | Environmentally conscious procedures followed during Permit Year 6. It was determined that there is no need for further controls. | Continue use of biodegradable soaps and other environmentally conscious procedures during Permit Year 7.                             |
| 6-6      | Minimize impacts from vehicle maintenance                                  | Highway Department            | Amount of hazardous materials used.                                                                                                        | Employee training, signage, materials inventory, and procedures followed during Permit Year 6.                                    | Continue employee training, signage, materials inventory, and following procedures during Permit Year 7.                             |
| 6-7      | Maintain the storm drain system                                            | Highway Department            | Number of catch basins cleaned annually                                                                                                    | Catch basins were cleaned on schedule for Permit Year 6.                                                                          | Clean catch basins in Fall 2009 for Permit Year 7.                                                                                   |
| 6-8      | Minimize pesticide and fertilizer use for parks and other landscaped areas | Highway Department            | Training conducted; amount of herbicides/fertilizers used.                                                                                 | Green landscaping procedures followed for Permit Year 6.                                                                          | Continue to ensure that the Highway Department and licensed subcontractors follow green landscaping procedures during Permit Year 7. |
| Revised  |                                                                            |                               |                                                                                                                                            | Licensed subcontractors used at ballfields for Permit Year 6.                                                                     |                                                                                                                                      |
| 6-9      | Control of illegal dumping                                                 | Highway Department            | Number of signs posted; number of sites cleaned up.                                                                                        | Access to a dumping site (Forest Street) was closed off.                                                                          | Continue monitoring, cleaning-up dump sites and posting signs during Permit Year 7.                                                  |
| Revised  |                                                                            |                               |                                                                                                                                            | Barriers and signage have effectively reduced dumping during Permit Year 6.                                                       |                                                                                                                                      |

**6a. Additions**

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

## 7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable >>

The MADEP has issued a "Draft Pathogen TMDL for the Parker River Watershed." Because it is a draft, the WLA are not final. However, the Town of Newbury is currently employing the following BMPs that will reduce pathogens to the Parker River Watershed.

| BMP ID # | BMP Description                                                                | Responsible Dept./Person Name     | Measurable Goal(s)                                                                                    | Progress on Goal(s) – Permit Years 6 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                           | Planned Activities – Permit Year 7                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-1      | Article/brochure about stormwater to be included in the tax bill once annually | Greenscapes North Shore Coalition | Newsletter/Brochure distributed to all households in Newbury.                                         | The Town of Newbury has partnered with Greenscapes to mail out the "Greenscapes Reference Guide" to the Town's households.                                                                                                                                                                                                            | Continue using Greenscapes to provide educational materials to Newbury households.                                                                                                                |
| 1-2      | Educate dog owners about picking up dog waste                                  | Town Clerk                        | Distribute Fact Sheet to Dog Owners.                                                                  | Fact Sheet distributed to all dog owners with license renewals during each permit year.                                                                                                                                                                                                                                               | Continue distributing Fact Sheet in Permit Year 7.                                                                                                                                                |
| 1-4      | Maintain pet waste clean-up signs at schools, parks, and beaches               | Highway Department                | Signs posted.                                                                                         | Signs are posted and maintained.                                                                                                                                                                                                                                                                                                      | Continue to post signs during Permit Year 7.                                                                                                                                                      |
| 2-3      | Stencil catch basins with "don't dump" message                                 | Highway Department                | Identify and prioritize catch basins to be stenciled with "Don't Dump" message.                       | Stenciled catch basins were maintained during Permit Year 6.                                                                                                                                                                                                                                                                          | Continue to maintain stenciled catch basins during Permit Year 7                                                                                                                                  |
| 3-1      | Conduct dry weather outfall screening                                          | Highway Department                | Locate Outfalls within regulated area during first year of permit term. Percent of Outfalls screened. | Dry weather screening of outfalls was not performed during Permit Year 6 because of funding and staffing limitations.                                                                                                                                                                                                                 | During Permit Year 7, Newbury will attempt to partner with outside entities for dry weather screening, most likely the Parker River Clean Water Association.                                      |
| 3-2      | Map stormwater outfalls                                                        | Conservation Commission           | Locate outfalls on a map within regulated area.                                                       | Upon further review of town mapping during Permit Year 5, it was discovered that all outfalls in the Old Town and Plum Island sections of Newbury were mapped, but that outfalls in the Byfield section were not. Because of funding and staffing limitations, mapping of the Byfield section was not completed during Permit Year 6. | During Permit Year 7, progress will be made towards mapping all the outfalls in the Byfield section of Newbury. Upon completion of mapping the Byfield section, outfall mapping will be complete. |



| BMP ID # | BMP Description                                                                                   | Responsible Dept./Person Name | Measurable Goal(s)                                    | Progress on Goal(s) – Permit Years 6 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                        | Planned Activities – Permit Year 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-4      | Develop and implement plan to identify and remove non-stormwater discharges                       | Board of Health               | Number of illicit connections found and removed.      | No progress made on developing and implementing a plan to identify and remove non-stormwater discharges during Permit Year 6. However, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw include (1) prohibiting illicit connections and unauthorized discharges, and (2) requiring the removal of all illicit connections. | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Assuming the bylaw passes at Town Meeting, regulations will be developed to (1) prohibit illicit connections and unauthorized discharges and (2) require the removal of illicit connections. A plan to identify and remove non-stormwater discharges will also be developed. |
| 3-5      | Develop a bylaw to require inspection of construction for correct connection to a municipal sewer | Building Inspection Dept.     | Present to Town Meeting by end of seventh permit year | During Permit Years 5 and 6, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw address illicit connections.                                                                                                                                                                                                                 | The final draft of the Stormwater Management Bylaw is currently being reviewed by the Planning Board. Prior to Town Meeting in May 2009, the Planning Board will hold a public hearing on the bylaw. The bylaw will be presented at Town Meeting in May 2009. Assuming the bylaw passes at Town Meeting, regulations will be developed to address illicit connections by requiring inspection of construction for correct connection to municipal sewers.                                                                                  |

| BMP ID # | BMP Description                              | Responsible Dept./Person Name | Measurable Goal(s)                                           | Progress on Goal(s) – Permit Years 6 (Reliance on non-municipal partners indicated, if any)                                                                                                                                                                                                                                                                                                                                                                              | Planned Activities – Permit Year 7                                                                                                                                                                                 |
|----------|----------------------------------------------|-------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-6      | Installation of vacuum sewers on Plum Island | Board of Health               | Connection of every household on Plum Island to sewer system | By Administrative Consent Order, the MADEP required that all households on Plum Island connect to a sewer system because households were unable to pass Title V regulations. All wastewater is now directed to the Newburyport Wastewater Treatment Plant, improving water quality to receiving waters. Approximately 24 letters were sent out to households that had not connected to the sewer system, and some households subsequently connected to the sewer system. | Because all households must connect to the sewer system, Newbury will continue sending letters and other enforcement actions during Permit Year 7 to ensure that all households are connected to the sewer system. |
| 6-2      | Street sweeping                              | Highway Department            | Percent of Streets swept annually.                           | During the spring of Permit Year 6, all streets were swept as scheduled.                                                                                                                                                                                                                                                                                                                                                                                                 | During Permit Year 7, streets will be swept in the spring and as necessary during the summer and fall.                                                                                                             |
| 6-3      | Sidewalk sweeping                            | Highway Department            | Percent of Sidewalks swept annually.                         | During the spring of Permit Year 6, all sidewalks were swept as scheduled.                                                                                                                                                                                                                                                                                                                                                                                               | Sidewalks will be swept as scheduled during Permit Year 7.                                                                                                                                                         |
| 6-7      | Maintain the storm drain system              | Highway Department            | Number of catch basins cleaned annually                      | Catch basins were cleaned on schedule for Permit Year 6.                                                                                                                                                                                                                                                                                                                                                                                                                 | Clean catch basins in Fall 2009 for Permit Year 7.                                                                                                                                                                 |

#### 7a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#### 7b. WLA Assessment

#### Part IV. Summary of Information Collected and Analyzed

None during this period

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a \*\*, which indicates response is for period covering April 1, 2008 through March 31, 2009)

##### Programmatic

|                                                               | (Preferred Units) | Response |
|---------------------------------------------------------------|-------------------|----------|
| Stormwater management position created/staffed                | (y/n)             | N        |
| Annual program budget/expenditures **                         | (\$)              |          |
| Total program expenditures since beginning of permit coverage | (\$)              |          |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) |                   |          |
|                                                               |                   |          |

##### Education, Involvement, and Training

|                                                                            |               |   |
|----------------------------------------------------------------------------|---------------|---|
| Estimated number of property owners reached by education program(s)        | (# or %)      |   |
| Stormwater management committee established                                | (y/n)         | Y |
| Stream teams established or supported                                      | (# or y/n)    |   |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n or mi.)  |   |
| Shoreline cleaned since beginning of permit coverage                       | (mi.)         |   |
| Household Hazardous Waste Collection Days                                  |               |   |
| ▪ days sponsored **                                                        | (#)           |   |
| ▪ community participation **                                               | (# or %)      |   |
| ▪ material collected **                                                    | (tons or gal) |   |
| School curricula implemented                                               | (y/n)         |   |
|                                                                            |               |   |

## Legal/Regulatory

| Regulatory Mechanism Status (indicate with "X")    | In Place<br>Prior to<br>Phase II | Reviewing<br>Existing<br>Authorities | Drafted | Draft<br>in<br>Review | Adopted |
|----------------------------------------------------|----------------------------------|--------------------------------------|---------|-----------------------|---------|
|                                                    |                                  |                                      |         |                       |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                                      |         |                       |         |
| ▪ Erosion & Sediment Control                       |                                  |                                      |         |                       |         |
| ▪ Post-Development Stormwater Management           |                                  |                                      |         |                       |         |
| Accompanying Regulation Status (indicate with "X") |                                  |                                      |         |                       |         |
| ▪ Illicit Discharge Detection & Elimination        |                                  |                                      |         |                       |         |
| ▪ Erosion & Sediment Control                       |                                  |                                      |         |                       |         |
| ▪ Post-Development Stormwater Management           |                                  |                                      |         |                       |         |

## Mapping and Illicit Discharges

|                                                                    | (Preferred Units)      |  | Response |
|--------------------------------------------------------------------|------------------------|--|----------|
|                                                                    |                        |  |          |
| Outfall mapping complete                                           | (%)                    |  | 66       |
| Estimated or actual number of outfalls                             | (#)                    |  | 27       |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%)                    |  |          |
| Mapping method(s)                                                  |                        |  |          |
| ▪ Paper/Mylar                                                      | (%)                    |  | 100      |
| ▪ CADD                                                             | (%)                    |  |          |
| ▪ GIS                                                              | (%)                    |  |          |
| Outfalls inspected/screened **                                     | (# or %)               |  |          |
| Outfalls inspected/screened (Since beginning of permit coverage)   | (# or %)               |  |          |
| Illicit discharges identified **                                   | (#)                    |  |          |
| Illicit discharges identified (Since beginning of permit coverage) | (#)                    |  |          |
| Illicit connections removed **                                     | (#); and<br>(est. gpd) |  |          |
| Illicit connections removed (Since beginning of permit coverage)   | (#); and<br>(est. gpd) |  |          |
| % of population on sewer                                           | (%)                    |  | 23       |
| % of population on septic systems                                  | (%)                    |  | 77       |

## Construction

|                                                                                                      | (Preferred Units) | Response |
|------------------------------------------------------------------------------------------------------|-------------------|----------|
| Number of construction starts (>1-acre) **                                                           | (#)               |          |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%)               |          |
| Site inspections completed **                                                                        | (# or %)          |          |
| Tickets/Stop work orders issued **                                                                   | (# or %)          |          |
| Fines collected **                                                                                   | (# and \$)        |          |
| Complaints/concerns received from public **                                                          | (#)               |          |

## Post-Development Stormwater Management

|                                                                                                                          |          |  |
|--------------------------------------------------------------------------------------------------------------------------|----------|--|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%)      |  |
| Site inspections (for proper BMP installation & operation) completed **                                                  | (# or %) |  |
| BMP maintenance required through covenants, escrow, deed restrictions, etc.                                              | (y/n)    |  |
| Low-impact development (LID) practices permitted and encouraged                                                          | (y/n)    |  |

## Operations and Maintenance

|                                                                                              |                         |               |
|----------------------------------------------------------------------------------------------|-------------------------|---------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **           | (times/yr)              | At least once |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr)              | At least once |
| Qty of structures cleaned **                                                                 | (#)                     |               |
| Qty. of storm drain cleaned **                                                               | (%, LF or mi.)          |               |
| Qty. of screenings/debris removed from storm sewer infrastructure **                         | (lbs. or tons)          |               |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **             | (location)              |               |
| Basin Cleaning Costs                                                                         |                         |               |
| • Annual budget/expenditure (labor & equipment)**                                            | (\$)                    |               |
| • Hourly or per basin contract rate **                                                       | (\$/hr or \$ per basin) |               |
| • Disposal cost**                                                                            | (\$)                    |               |
| Cleaning Equipment                                                                           |                         |               |
| • Clam shell truck(s) owned/leased                                                           | (#)                     |               |
| • Vacuum truck(s) owned/leased                                                               | (#)                     |               |
| • Vacuum trucks specified in contracts                                                       | (y/n)                   |               |

|                                            |     |  |
|--------------------------------------------|-----|--|
| • % Structures cleaned with clam shells ** | (%) |  |
| • % Structures cleaned with vactor **      | (%) |  |

| (Preferred Units)                                                                       |                       | Response       |
|-----------------------------------------------------------------------------------------|-----------------------|----------------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) **           | (times/yr)            | At least twice |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr)            | At least twice |
| Qty. of sand/debris collected by sweeping **                                            | (lbs. or tons)        |                |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **                | (location)            |                |
| Annual Sweeping Costs                                                                   |                       |                |
| • Annual budget/expenditure (labor & equipment)**                                       | (\$)                  |                |
| • Hourly or lane mile contract rate **                                                  | (\$/hr. or<br>ln mi.) |                |
| • Disposal cost**                                                                       | (\$)                  |                |
| Sweeping Equipment                                                                      |                       |                |
| • Rotary brush street sweepers owned/leased                                             | (#)                   |                |
| • Vacuum street sweepers owned/leased                                                   | (#)                   | 1              |
| • Vacuum street sweepers specified in contracts                                         | (y/n)                 |                |
| • % Roads swept with rotary brush sweepers **                                           | %                     |                |
| • % Roads swept with vacuum sweepers **                                                 | %                     |                |

|                                                                                  |             |
|----------------------------------------------------------------------------------|-------------|
| Reduction (since beginning of permit coverage) in application on public land of: |             |
| ▪ Fertilizers                                                                    | (lbs. or %) |
| ▪ Herbicides                                                                     | (lbs. or %) |
| ▪ Pesticides                                                                     | (lbs. or %) |
| Integrated Pest Management (IPM) Practices Implemented                           | (y/n)       |

(Preferred Units) Response

|                                                                                                  |                     |   |
|--------------------------------------------------------------------------------------------------|---------------------|---|
| Average Ratio of Anti-/De-Icing products used **                                                 |                     |   |
| (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) |                     |   |
|                                                                                                  | % NaCl              |   |
|                                                                                                  | % CaCl <sub>2</sub> |   |
|                                                                                                  | % MgCl <sub>2</sub> |   |
|                                                                                                  | % CMA               |   |
|                                                                                                  | % Kac               |   |
|                                                                                                  | % KCl               |   |
|                                                                                                  | % Sand              |   |
| Pre-wetting techniques utilized **                                                               | (y/n or %)          |   |
| Manual control spreaders used **                                                                 | (y/n or %)          |   |
| Zero-velocity spreaders used **                                                                  | (y/n or %)          |   |
| Estimated net reduction or increase in typical year salt/chemical application rate               | (±lbs/ln mi. or %)  |   |
| Estimated net reduction or increase in typical year sand application rate **                     | (±lbs/ln mi. or %)  |   |
| % of salt/chemical pile(s) covered in storage shed(s)                                            | (%)                 |   |
| Storage shed(s) in design or under construction                                                  | (y/n or #)          |   |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008                             | (y/n)               | Y |
|                                                                                                  |                     |   |
|                                                                                                  |                     |   |

**Water Supply Protection**

|                                                                                                   |          |  |
|---------------------------------------------------------------------------------------------------|----------|--|
| Storm water outfalls to public water supplies eliminated or relocated                             | # or y/n |  |
| Installed or planned treatment BMPs for public drinking water supplies and their protection areas | # or y/n |  |
| • Treatment units induce infiltration within 500-feet of a wellhead protection area               | # or y/n |  |