

**Municipality/Organization:** Newbury

**EPA NPDES Permit Number:** MAR041212

**MaDEP Transmittal Number:** W-040791

**Annual Report Number  
& Reporting Period:** April 1, 2006 – March 31, 2008

*24pk  
rec'd 9-5-08  
SEM*

*(11/4/08  
contact info,  
MCM's, Metrics)  
-Yrs 4+5 combined*

## NPDES PII Small MS4 General Permit Annual Report

### 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:** Dr. Vincent Russo

**Title:** Chmn. Newbury Board of Selectmen

**Date:** \_\_\_\_\_

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

The Town of Newbury has completed the required self-assessment. For Permit Year 4 (2006-2007) the Town was not in compliance with all permit conditions because the Annual Report was not submitted to the EPA and DEP. With submission of the Annual Report for Permit Year 5 (2007 – 2008), which includes Permit Year 4 activities, the Town is now in compliance with all 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 Years 4 & 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 6
1-1 Revised	Article/brochure about stormwater to be included in the tax bill once annually	Stormwater Advisory Committee Greenscapes North Shore Coalition	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. Beginning in Permit Year 4, Greenscapes mailed the "Greenscapes Reference Guide" to half of the Town's households. Over a two-year cycle, all households received the guide.	Continue throughout permit term.  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 6.
1-3 Revised	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.  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.  Signs are posted and maintained.	Implement education program.  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.		Continue to post and maintain signs during Permit Year 6.
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 for Permit Year 4. The Board of Selectmen will be updated on progress and receive a copy of this annual report for Permit Year 5.	Continue to update the Board of Selectmen on progress during Permit Year 6.





## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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. Membership includes the Conservation Commission Chairman, a Planning Board member, Highway Department representative, an active citizen, and a private environmental consultant. During Permit Year 5, the Stormwater Advisory Committee developed a Stormwater Management Bylaw.	Assuming the Stormwater Management Bylaw passes at Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008, 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 Years 4 and 5 complied with the Open Meeting Law.	Future meetings during Permit Year 6 will continue to comply with the Open Meeting Law.
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 Years 4 and 5.	Measure Completed.  Continue to maintain stenciled catch basins during Permit Year 6.
Revised					

**2a. Additions**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
2-4	Household Hazardous Waste Collection	Town Clerk	Track number of brochures picked up by Town residents	During Permit Years 4 and 5, 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 6, 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 4 and 5 because of funding and staffing limitations.	During Permit Year 6, Newbury will attempt to partner with outside entities for dry weather screening. Possible groups include the Parker River Clean Water Association, the Montessori School on Low Street, and Governor's Academy.
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.	During Permit Year 6, 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 urgent need for stormwater GIS at this time.	Measure completed for Permit Year 6.
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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
3-4 Revised		Board of Health		No progress made on developing and implementing a plan to identify and remove non-stormwater discharges during Permit Years 4 and 5. However, during Permit Year 5, 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.	Assuming the Stormwater Bylaw passes at Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008, develop regulations 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.	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				No progress made on developing a bylaw to require inspection of construction for correct connection to municipal sewers during Permit Years 4 and 5. However, during Permit Year 5, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw address illicit connections.	Assuming the Stormwater Bylaw passes at Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008, develop regulations 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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. By the end of Permit Year 5, most households were connected to the sewer system. All wastewater is now directed to the Newburyport Wastewater Treatment Plant, improving water quality to receiving waters.	Because all households must connect to the sewer system, Newbury will proceed with enforcement actions during Permit Year 6 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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				During Permit Years 4 and 5, stormwater management activities were conducted by Conservation Commission and Highway Dept. During Permit Year 5, 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.	During Permit Year 6, the Stormwater Management Bylaw will be presented to Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008. 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
4-2 Revised				During Permit Years 4 and 5, stormwater management activities were conducted by Conservation Commission and Highway Dept. During Permit Year 5, 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	During Permit Year 6, the Stormwater Management Bylaw will be presented to Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008. 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 Years 4 and 5, 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 Years 4 and 5, all Conservation Commission hearings and Planning Board hearings were publicly noticed, allowing for public input.	During Permit Year 6, hearing 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 Years 4 and 5.	An inspection checklist will be developed during Permit Year 6.

**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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 sixth permit year	Stormwater Standards were administered by the Conservation Commission for projects under the jurisdiction of the Wetlands Protection Act during Permit Years 4 & 5. During Permit Year 5, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw, which applies the Massachusetts Stormwater Policy to the entire Town.	During Permit Year 6, the Stormwater Management Bylaw will be presented to Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008.
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 Year 5, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw, which selects the Massachusetts Stormwater Policy BMP Manual as the standard manual.	During Permit Year 6, the Stormwater Management Bylaw will be presented to Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 Years 4 and 5. During Permit Year 5, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives in the bylaw address long-term maintenance of private structural BMPs.	During Permit Year 6, the Stormwater Management Bylaw will be presented to Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008. 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 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 springs of Permit Years 4 and 5, all streets were swept as scheduled. During Permit Year 5, the Highway Department purchased a street sweeper.	During Permit Year 6, 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 springs of Permit Years 4 and 5, all sidewalks were swept as scheduled.	Sidewalks will be swept as scheduled during Permit Year 6.
6-4	Roadway deicing	Highway Department	Amount of deicing compounds used.	Quantity of deicing compounds documented.	Quantity of deicing compounds documented during Permit Year 6.
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 Years 4 and 5. It was determined that there is no need for further controls.	Continue use of biodegradable soaps and other environmentally conscious procedures.
6-6	Minimize impacts from vehicle maintenance	Highway Department	Amount of hazardous materials used.	Employee training, signage, materials inventory, and procedures followed during Permit Years 4 and 5.	Continue employee training, signage, materials inventory, and following procedures during Permit Year 6.
6-7	Maintain the storm drain system	Highway Department	Number of catch basins cleaned annually	Catch basins were cleaned on schedule for Permit Years 4 and 5.	Clean catch basins in Fall 2008 for Permit Year 6.
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 Years 4 and 5.	Continue to ensure that the Highway Department and licensed subcontractors follow green landscaping procedures during Permit Year 6.
Revised				Licensed subcontractors used at ballfields for Permit Years 4 and 5.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4&5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
6-9 Revised	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. Barriers and signage have effectively reduced dumping during Permit Years 4 and 5.	Continue monitoring, cleaning-up dump sites and posting signs during Permit Year 6. Also install security cameras at landfill to control illegal dumping during Permit Year 6.

**6a. Additions**

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## 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 4 & 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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.	Beginning in Permit Year 4, Greenscapes mailed the "Greenscapes Reference Guide" to half of the Town's households. Over a two-year cycle, all households received the guide...	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 6.
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 6.
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 Years 4 and 5.	Continue to maintain stenciled catch basins during Permit Year 6
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 4 and 5 because of funding and staffing limitations.	During Permit Year 6, Newbury will attempt to partner with outside entities for dry weather screening. Possible groups include the Parker River Clean Water Association, the Montessori School on Low Street, and Governor's Academy.
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.	During Permit Year 6, 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 4 & 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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 Years 4 and 5. However, during Permit Year 5, 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.	Assuming the Stormwater Bylaw passes at Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008, develop regulations 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.	Draft By-Law for properties connected to a municipal sewer system by end of first permit year.	No progress made on developing a bylaw to require inspection of construction for correct connection to municipal sewers during Permit Years 4 and 5. However, during Permit Year 5, the Stormwater Advisory Committee developed a draft Stormwater Management Bylaw. Objectives of the bylaw address illicit connections.	Assuming the Stormwater Bylaw passes at Town Meeting in Fall 2008 (if there is a special Town Meeting) or in Spring 2008, develop regulations 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 4 & 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
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. By the end of Permit Year 5, most households were connected to the sewer system. All wastewater is now directed to the Newburyport Wastewater Treatment Plant, improving water quality to receiving waters.	Because all households must connect to the sewer system, Newbury will proceed with enforcement actions during Permit Year 6 to ensure that all households are connected to the sewer system.
6-2	Street sweeping	Highway Department	Percent of Streets swept annually.	During the springs of Permit Years 4 and 5, all streets were swept as scheduled. During Permit Year 5, the Highway Department purchased a street sweeper.	During Permit Year 6, 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 springs of Permit Years 4 and 5, all sidewalks were swept as scheduled.	Sidewalks will be swept as scheduled during Permit Year 6.
6-7	Maintain the storm drain system	Highway Department	Number of catch basins cleaned annually	Catch basins were cleaned on schedule for Permit Years 4 and 5.	Clean catch basins in Fall 2008 for Permit Year 6.

**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, 2006 through March 31, 2007)

**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		
<ul style="list-style-type: none"> <li>▪ days sponsored **</li> <li>▪ community participation **</li> <li>▪ material collected **</li> </ul>	(#)	
School curricula implemented	(# or %)	
	(tons or gal)	
	(y/n)	



**Legal/Regulatory**

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
<b>Regulatory Mechanism Status (indicate with "X")</b>					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					
<b>Accompanying Regulation Status (indicate with "X")</b>					
▪ 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
<b>System-Wide mapping complete (complete storm sewer infrastructure)</b>		
<b>Mapping method(s)</b>		
▪ 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 (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (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 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: ("N/A" = never used; "100%" = elimination)	
▪ 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 **	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		
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/in mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/in 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	
<ul style="list-style-type: none"> <li>Treatment units induce infiltration within 500-feet of a wellhead protection area</li> </ul>	# or y/n	



