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

**Permit Number:** MAR041135

SPV

**Annual Report Number & Reporting Period:** No. 3: March 05-March 06

APR - 6 2006

## NPDES Phase II Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Shelly A. Leclaire **Title:** Highway Surveyor

**Telephone #:** 508-473-1274 **Email:** Highway@MilfordMa.com

### 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:** Shelly A. Leclaire

**Title:** Highway Surveyor

**Date:** April 3, 2006

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

The Town of Milford has completed the required self-assessment and has determined that our municipality is in compliance with the permit conditions. Discussions of the progress on BMPs toward the measurable goals, as well as quantification of some of the programs, are included in the following sections. A description of how the BMPs reduce pollutants of concern is also included.

### Public Education and Outreach

Milford has met the goals of the BMPs in this category and will continue to provide public education in the form of presentations, expansion of collection of stormwater materials in the local library and other Town venues (schools, Town Hall), and postings on the Town website. Materials that have been distributed to date, as well as presentations given to 8<sup>th</sup> graders in the Town, have provided a general description of what stormwater is and how it is conveyed, while stressing important key areas such as the prevention of littering and dumping, the importance of picking up pet waste and not feeding waterfowl, and the responsible use of fertilizers and disposal of yard waste in order to reduce pathogen contamination and nutrient loading (pollutants of concern) to waterbodies in Town. Dumping, waterfowl wastes, and improper yard waste disposal have been water quality issues observed in the Town.

### Public Involvement and Participation

Annual clean-ups, scrap metal and used motor oil recycling, and semi-annual hazardous waste pickup days are ongoing programs to fulfill this component. These programs encourage the proper disposal of materials that might otherwise contribute metals, a pollutant of concern, and other pollutants to Town waterbodies. Public meetings held for the recently approved stormwater management bylaw, as well as for appropriation of funds for BMP retrofit on Milford Pond and maintenance of Godfrey and O'Brien Brook channels have provided other public involvement opportunities related to stormwater.

### Illicit Discharge Detection and Elimination (IDDE)

Prior to the implementation of the NPDES MS4 program, the Town of Milford had no comprehensive storm sewer system mapping. By August of 2004, a map showing the location of all outfalls in the Town and the names of all waters that receive discharges from those outfalls had been developed to satisfy BMP ID#IDD1 (storm sewer map). This map includes approximately 300 outfalls which were located by field survey. An "Illicit Discharge Detection Plan" was developed by the Town's consultant in August of 2004. The plan presents background information and required actions for locating priority areas, tracing the source of an illicit discharge, removing the source of an illicit discharge, and program evaluation and assessment, prepared in accordance with "Illicit Discharge Detection and Elimination Manual: A Handbook for Municipalities" (New England Interstate Water Pollution Control Commission, 2003) and "Investigation of Inappropriate Pollutant Entries into Storm Drainage Systems: A User's Guide" (US EPA, 1993).

Based on the "Illicit Discharge and Detection Plan", dry-weather field screening and water quality testing of outfalls observed to be flowing was conducted on outfalls within the Town, such that each outfall in the Town has been inspected at least once during dry

weather (3 prior days with rainfall  $\leq 0.1$  inches). At each outfall, the size, material, approximate flow (if flowing), the presence of floatables, debris, coarse solids, color, turbidity, oil sheen, odor, staining, corrosion, abnormal amounts of vegetation, and structural integrity were noted. Samples collected from flowing outfalls were analyzed for specific conductance, ammonia nitrogen, temperature, pH and detergents. Testing for pathogens (fecal coliform) was not conducted, as it is more expensive and not well suited for rapid screening. However, ammonia and detergents were selected as parameters to identify potential wastewater contamination which would contribute pathogens (a pollutant of concern). This work, which required over 100 hours of labor over the course of a year (11/04 – 10/05), provided the most rapid screening for illicit discharges possible under the current available mapping (outfalls only), funding and time constraints. The results of this screening were used to develop criteria to rank the outfalls into priority levels for further investigation.

Four outfalls were assigned to Priority Level 1, with a goal to trace and remove the sources of illicit discharges as soon as possible. Funding of \$25,000 for this work was appropriated at Town Meeting in the Fall of 2005. The "Illicit Discharge and Detection Plan" recommended tracing dry-weather flows upstream along the storm sewer system during dry weather and using dye or smoke testing to trace the ultimate source. This method is suitable for unmapped storm sewer systems. However, in light of recent communication with EPA, Milford will use the Charles River Illicit Discharge Detection & Elimination Protocol ("top-down approach") to trace the sources of illicit discharges for high priority outfalls as the current funding of \$25,000 allows. In order to do this, Milford must map the complete storm sewer system of each outfall to be evaluated.

To make best use of the funding currently available, storm sewer systems associated with Priority Level 1 outfalls will be mapped completely using GPS, and then the "top-down approach" will be conducted for these systems. This first round of mapping and testing will allow Milford to assess how much funding may be required for future efforts in the IDDE program. Outfalls under Priority Level 2 will also require tracing and removal of illicit discharges after Priority Level 1 outfalls have been completed. Any remaining funding will be used for this purpose and more funding will be appropriated as needed. Outfalls under Priority Level 3 must be revisited during dry weather and re-sampled to confirm the absence of potential illicit discharges. No further action for outfalls under Priority Levels 4 and 5 is planned at this time, as these outfalls either were not flowing during dry weather or did not exhibit any physical or water quality indicators suggesting an illicit discharge. It is important to note that these Priority Levels were developed based on relative levels within the Town and not on absolute threshold values, in order to prioritize outfalls for further investigation so that limited funding and resources will be spent wisely.

As of March 16, all four Priority Level 1 outfall storm sewer systems have been mapped, and planning for the "top-down approach" on these systems has commenced. The ultimate goal of the Town is to find and remove *all* illicit connections. Some reduction in pollutants of concern, including pathogens as well as nutrients, in the waterbodies of the Town will result from the removal of illicit connections. The extent of the reduction will depend on the number and severity of illicit connections removed and how the contribution of pathogens from illicit connections compares to that from waterfowl.

In addition to the stormwater IDDE program, the Milford Sewer Department has been and is continually detecting and removing illegal cross connections and making repairs to the sanitary sewer system. Between 1995 and 2000, over 15 cross-connections have been removed and repairs of broken pipes and leaking manholes have been conducted. To date, approximately 63,500 gpd of sewage leakage has been eliminated. During the fall of 2005, the Milford Sewer Department repaired a portion of the sewer system on Vine Street which had been overflowing during rain events and discharging raw sewage via overland flow directly to Godfrey Brook. This repair will have a significant positive impact on water quality in Godfrey Brook and downstream resources.

The Milford Stormwater Management By-Law was approved at Town Meeting in October 2005 and has been approved by the Attorney General's Office. The By-Law includes provisions for the prohibition of illegal discharges and illicit connections, as well as improper waste disposal. The prohibition of illicit connections includes connections made in the past "regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection". The By-Law includes procedures for enforcement and penalties.

The Town has stenciled the message, "Dump No Waste – Drains to Stream" on every catch basin in the Town over this past permit year, which constituted an expense of \$4,400 and 464 manhours.

#### Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management in New Development and Redevelopment

The Milford Stormwater Management By-Law, which is now fully in place, contains provisions to satisfy the BMPs under these minimum control measures. The By-Law applies to all flows entering the MS4 generated on any developed and undeveloped lands within the Town, and requires approval of a stormwater management permit prior to the issuance of any building permit for development with construction activities disturbing greater than one acre. Application for the permit includes development of a Stormwater Management and Erosion and Sediment Control Plan, as well as an Operation, Maintenance, and Inspection Agreement for BMPs to be constructed on-site. Violation of the By-Law may result in "stop work orders", criminal and civil penalties, or holds on occupancy permits. Controls on construction site stormwater runoff and the requirement for post-construction stormwater management will minimize the transport of pollutants of concern, sediment, nutrients, and metals to Town waterbodies.

The Town's existing Zoning By-Law includes requirements for minimum open space in over half of its zoning districts, specified in either square feet per dwelling unit or percent of lot area. At least 50% of the total lot area must be designated as open space in Planned Residential Developments.

#### Pollution Prevention and Good Housekeeping in Municipal Operations

Twice yearly street sweeping and annual catch basin cleaning are regular BMPs that reduce the amount of sediments entering waterbodies. Nutrients, toxic chemicals, and various metals may sorb to sediment particles, thus removal of sediments also results in a

reduction in these other pollutants, which include pollutants of concern. In addition, pathogens from any pet waste that may be accumulated in catch basins are prevented from reaching waterbodies. The annual lawn waste/leaf collection program also prevents a significant loading of nutrients to town waterbodies, by reducing the amount of these wastes that can contact waterbodies.

The Town approved \$50,000 on 2/13/06 for the planning, design and permitting of retrofit BMPs for outfalls discharging to Milford Pond. These BMPs will likely include some combination of swirl concentrators, sediment forebays, and deep sump catch basin retrofits and will result in the reduction of sediments and nutrients (pollutants of concern) entering Milford Pond. The installation of these BMPs is a condition of the Army Corps of Engineers participation in the Aquatic Habitat Restoration of Milford Pond, an \$8.3 million project. Milford's share of the total project cost is \$3.8 million, including \$500,000 for the BMP design, permitting and construction. The Aquatic Habitat Restoration program will include the dredging of about 45 acres of Milford Pond, expected to occur 2007 – 2008. The dredging project is currently under design by the Army Corps of Engineers. At this time, the Town is pursuing endangered species impact review with the Massachusetts Natural Heritage Program, MEPA review, and other necessary permitting. Today, Milford Pond is extremely shallow with an average depth of less than 2 feet, with nutrient rich sediments that create eutrophication and support the growth of dense communities of aquatic macrophytes. Anoxic conditions occur in the summer months due to the decomposition of organic matter. A 45± acre portion of the pond will be dredged to a maximum depth of 12 feet, resulting in a decrease in aquatic macrophyte growth within a portion of the pond and providing and enhancing deep, open water habitat that would help to restore dissolved oxygen levels and improve overall water quality. Both noxious aquatic plants and low dissolved oxygen are pollutants of concern and this restoration is likely to result in significant improvements in these areas. The BMPs installed on outfalls into Milford Pond will prevent additional sediments from re-filling the pond. The improvements to Milford Pond will likely have a positive downstream impact.

The stone masonry channelized sections of Godfrey and O'Brien Brooks require annual repair of damage to the stone walls resulting from high flows and regular wear and tear due to age. These damaged sections may contribute to periodic episodes of sediment loading from erosion. The Town has recently contracted with a consultant to prepare a feasibility study for the repair and long term maintenance of these channels, in an effort to more efficiently manage town resources and improve these stream corridors.

## 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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
PE1	Brochures to educate public about stormwater pollution, pollution prevention, importance of reporting illicit dumping	Highway Dept.	Develop brochures in Permit Year (PY) 1. Produce and mail to residents in PY2.	Brochures distributed during PY2. Approximate volume of material removed from catch basins: PY2: 2,400 cubic yards (1598 tons of road sand were purchased by the Town during the previous winter season) PY3: 2,460 cubic yards (2710 tons of road sand were purchased by the Town during the previous winter season)	Monitor goal of reduction in pollutants in catch basins, observed by catch basin cleaning crews.
Revised					
PE2	Brochures to educate business/industry regarding pollution prevention, material storage and handling, housekeeping, disposal practices	Highway Dept.	Develop brochure in PY1. Produce and mail to businesses in PY2.	Brochures distributed during PY2. Approximate volume of material removed from catch basins: PY2: 2,400 cubic yards (1598 tons of road sand were purchased by the Town during the previous winter season) PY3: 2,460 cubic yards (2710 tons of road sand were purchased by the Town during the previous winter season)	Monitor goal of reduction in pollutants in catch basins, observed by catch basin cleaning crews.
Revised					
PE3	Outreach program for local students, civic groups	Highway Dept.	Organize and implement round of presentations for local schools and at least one civic group.	Consultant performed stormwater education PowerPoint presentation to all Milford 8 <sup>th</sup> graders, approximately 350 students, on January 27, 2006, at Milford Middle School East, 45 Main Street, at approximate cost of \$2,570.	Organize and conduct at least one round of presentations to a civic group.
Revised					

**1. Public Education and Outreach cont'd.**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
PE4	Educational material in library	Highway Dept.	Organize a group of materials regarding stormwater pollution and make available at library.	USGS “Water Quality...Potential Sources of Pollution” poster (10 copies); EPA “Take the Stormwater Runoff Challenge” cross-word puzzle placemat; EPA fact sheet – “Protecting Water Quality from Urban Runoff”; EPA “Stormwater and the Construction Industry” poster (10 copies): Materials distributed to Milford Schools (Middle School East, Stacy, Memorial, High School, Woodland, and Brookside), as well as Town Library, Wastewater Treatment Plant, Milford Water Co., Town Hall, and Highway Department. Electronic files of these materials programmed into Town of Milford web site as of February 2006.	Add to and update collection of materials.
Revised	<i>Educational materials in Town Hall and other locations</i>	Highway Dept.	Hang posters and have materials available in Town Hall.		

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4																																				
PP1	Community cleanup	Highway Dept.	Form volunteer group for annual cleanup. Hold cleanup day and record participants.	<p>Cleanup conducted in 2005 and early 2006 by inmate community service group to pick up litter, and clear brush and debris from local brooks, as follows:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Location</th> <th>Scope of Work</th> <th>Inmates</th> </tr> </thead> <tbody> <tr> <td>May 16, 17, 18; June 7, 8</td> <td>Central Street Beaver Street Maple Street Cedar Street Dilla Street Sumner St. Countryside Dr. Fino Field Bridge</td> <td>Pick up papers and debris along roadside</td> <td>6</td> </tr> <tr> <td>June 9</td> <td>Water St. @ Godfrey Brk.</td> <td>Clean sand &amp; debris from brook</td> <td>6</td> </tr> <tr> <td>June 28</td> <td>Front St. @ Highway Dept.</td> <td>Pulled weeds and cleaned area along Charles R.</td> <td>6</td> </tr> <tr> <td>July 5</td> <td>Cedar Swamp Dam Lawrence St.</td> <td>Spread wood chips Loam &amp; seed @ bridge</td> <td>6</td> </tr> <tr> <td>July 12</td> <td>Vine St. @ Godfrey Brk.</td> <td>Cut brush</td> <td>6</td> </tr> <tr> <td>July 13</td> <td>East Main St. parking lot</td> <td>Clean debris in lot</td> <td>6</td> </tr> <tr> <td>November 11</td> <td>South Main St. @ Godfrey Brk</td> <td>Clean brush along brook walls</td> <td>6</td> </tr> <tr> <td>March 20-25</td> <td>Beaver St., Maple St., Dilla St., Birch St., Cedar St., Sumner St., Countryside Dr., Asylum St., Fiske Mill Rd.</td> <td>Clean debris along roadside</td> <td>5</td> </tr> </tbody> </table>	Date	Location	Scope of Work	Inmates	May 16, 17, 18; June 7, 8	Central Street Beaver Street Maple Street Cedar Street Dilla Street Sumner St. Countryside Dr. Fino Field Bridge	Pick up papers and debris along roadside	6	June 9	Water St. @ Godfrey Brk.	Clean sand & debris from brook	6	June 28	Front St. @ Highway Dept.	Pulled weeds and cleaned area along Charles R.	6	July 5	Cedar Swamp Dam Lawrence St.	Spread wood chips Loam & seed @ bridge	6	July 12	Vine St. @ Godfrey Brk.	Cut brush	6	July 13	East Main St. parking lot	Clean debris in lot	6	November 11	South Main St. @ Godfrey Brk	Clean brush along brook walls	6	March 20-25	Beaver St., Maple St., Dilla St., Birch St., Cedar St., Sumner St., Countryside Dr., Asylum St., Fiske Mill Rd.	Clean debris along roadside	5	Continue annual cleanup days to reduce amount of debris/trash along waterways and roadways. The Girl Scouts were contacted regarding scheduling an Earth Day cleanup for 2006.
Date	Location	Scope of Work	Inmates																																						
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**2. Public Involvement and Participation cont'd.**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) -- Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities -- Permit Year 4																					
PP2	Scrap metal and used motor oil recycling	Highway Dept.	Continue to offer recycling program. Record amount of material collected.	Program is ongoing and maintained by the Board of Health. 2,135 gallons of automotive motor oil collected during calendar year 2005 (increase from 2,000 gal collected in 2004). 1559 tons of materials recycled in Calendar Year 2005, including 529 tons of scrap metal/white goods.	Continue to offer program and record amounts of materials collected.																					
PP3  Revised	Hazardous waste dropoff days	Highway Dept.	Continue to offer semi-annual dropoff program and record amount of material collected.	<p>Program is ongoing and maintained by the Board of Health.</p> <table border="1"> <thead> <tr> <th>Item</th> <th>CY 2004</th> <th>CY 2005</th> </tr> </thead> <tbody> <tr> <td>Auto batteries</td> <td>388</td> <td>409</td> </tr> <tr> <td>5-gal pails of household batteries</td> <td>6</td> <td>25</td> </tr> <tr> <td>l.f. of fluorescent bulbs</td> <td>315</td> <td>285</td> </tr> <tr> <td>C.Y. latex/oil based paint</td> <td>15</td> <td>18</td> </tr> <tr> <td>Mercury containing devices</td> <td>1524</td> <td>1497</td> </tr> <tr> <td>lbs electronics</td> <td>4100</td> <td>3779</td> </tr> </tbody> </table> <p>All materials, except for latex/oil based paint, were collected every Thursday through Saturday. Latex/oil based paint was collected all Saturdays in April through November.</p>	Item	CY 2004	CY 2005	Auto batteries	388	409	5-gal pails of household batteries	6	25	l.f. of fluorescent bulbs	315	285	C.Y. latex/oil based paint	15	18	Mercury containing devices	1524	1497	lbs electronics	4100	3779	Continue to offer dropoff program and record amount of material collected.
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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
PP4	Public meeting	Highway Dept.	Hold public meeting to present proposed bylaw/ordinances for input prior to implementation by end of PY1.	Stormwater bylaw approved at Town Meeting on October 24, 2005.	Task complete.
Revised			Public meeting may also discuss stormwater pollution prevention.		

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
IDD1	Storm Sewer Map	Highway Dept.	Seek Town Meeting funding in PY1. Complete map in PY2.	Outfall mapping completed by consultant August 2004, at cost of \$8,000. A total of 300 outfalls were mapped.	Task complete. Mapping will be reviewed on an annual basis for updates, corrections, deletions, etc.
Revised					
IDD2	IDDE program development, identification of problem areas, correction of issues.	Highway Dept.	Conduct outfall sampling in PY2. Number of illicit discharges to be removed in PY3, 4, 5.	Dry-weather field screening completed by consultant Fall of 2005 and "Dry Weather Outfall Investigation Summary Report" completed November 2005. 303 outfalls were inspected at least once during dry weather (preceding 72 hrs with rainfall < 0.1 in) at a cost of approximately \$25,000 and 22 were identified for further investigation. The consultant has been contracted to begin GPS mapping of the complete storm drain systems associated with high priority outfalls and perform EPA protocol ("top-down approach") for tracing the sources of illicit discharges. \$25,000 has been appropriated for this work. The strategy includes complete mapping of Priority 1 systems followed by implementation of "top-down approach" for those systems. Mapping followed by implementation of "top-down approach" will continue for the remainder of the Priority 2 outfalls as funds (\$25,000) allow. As of March 16, 2006, the complete storm sewer systems associated with outfalls #153, #148, #69 and #170 have been mapped using GPS and plotted using GIS.	Continue mapping complete storm sewer systems associated with high priority outfalls and implement "top-down approach" for those outfalls.
Revised					
IDD3	IDDE program documentation.	Highway Dept.	Submit annual report, including information on IDDE program steps.	Annual report is hereby submitted.	Future PY annual reports will include information on IDDE program tasks.
Revised					

### 3. Illicit Discharge Detection and Elimination cont'd.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
IDD4	Storm drain stenciling program, focusing on drains tributary to ponds and known dumping areas. Program extended to brook drains as feasible.	Highway Dept.	Percentage/number of storm drains stenciled annually. Records of catch basin cleaning showing decreased dumping/pollutants in catch basins.	All Town storm drains (approximately 3,079) have been stenciled, using 464 manhours and at a cost of \$4,400.	Task complete.
Revised					
IDD5	Regulation prohibiting non-stormwater discharges to municipal system.	Highway Dept.	Development and implementation of regulation during PY2.	Sections on Prohibition of Illegal Discharges, Prohibition of Illicit Connections, and Waste Disposal Prohibitions included in Stormwater Management bylaw, approved at Town Meeting on October 24, 2005. The Stormwater Management bylaw was approved by the Attorney General's Office in letter dated February 9, 2006.	Implement bylaw.
Revised					

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
CR1	Regulation for erosion/sediment controls, BMPs, construction controls	Highway Dept.	Development and establishment of regulation.	Stormwater Management bylaw requiring stormwater management permit for construction activities disturbing greater than 1 acre approved at Town Meeting on October 24, 2005. The Stormwater Management bylaw was approved by the Attorney General's Office in letter dated February 9, 2006.	Implement bylaw.
Revised					
CR2	Mechanism for site plan review, inspections, review procedures	Highway Dept.	Establishment of procedures and number of plans reviewed annually.	Stormwater Management bylaw approved at Town Meeting on October 24, 2005 includes procedures for review and approval of stormwater permits and inspections. The Stormwater Management bylaw was approved by the Attorney General's Office in letter dated February 9, 2006.	Implement bylaw.
Revised					

## 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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
PCR1	Regulation for BMPs	Highway Dept.	Develop and adopt regulation, measure compliance (# of BMPs, % compliance, etc).	Stormwater Management bylaw approved at Town Meeting on October 24, 2005 includes Stormwater Management Performance Standards and projects are required to meet the Massachusetts Stormwater Management Policy. Accompanying Guidance Document outlines detailed requirements. The Stormwater Management bylaw was approved by the Attorney General's Office in letter dated February 9, 2006.	Implement bylaw.
Revised					
PCR2	Regulatory mechanism for BMP operation and maintenance (O&M)	Highway Dept.	Regulation development and adoption; maintenance of inspection reports.	Stormwater Management bylaw approved at Town Meeting on October 24, 2005 includes Operation, Maintenance, and Inspection Schedule requirements for privately-owned facilities, and assigns maintenance responsibility. The Stormwater Management bylaw was approved by the Attorney General's Office in letter dated February 9, 2006.	Implement bylaw.
Revised					

## 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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
MGH1	Street sweeping	Highway Dept.	Continue street sweeping program, note reduction in sediments in catch basins, quantities of material collected.	Street sweeping conducted April – July of 2005: 2,730± cy collected at cost of \$21,819 and 1,040 hrs of labor. Second round of street sweeping conducted August 2005: 540 cy collected at cost of \$3,357 and 160 hours of labor. All accepted streets were swept.	Continue program through all permit years.
Revised					
MGH2	Catch basin cleanouts	Highway Dept.	Continue catch basin cleanout program. Record number of catch basins cleaned, sediment collected.	The Town conducted annual catch basin cleanouts in Fall of 2005 via a contractor. 3079 catch basins were cleaned and a total of 2,460 cubic yards of material removed. Total cost of \$19,680 and 328 hours of labor.	Continue program through all permit years.
Revised					
MGH3	Record keeping/schedule of maintenance	Highway Dept.	Continue to keep listing of regular maintenance activities, schedules, and procedures.	Records added to maintenance file. Examples of records: Work performed on Godfrey, O'Brien and Huckleberry Brooks by hired contractors including repair of brook walls and culvert repairs at cost of \$82,000. (Note - Consultant contracted to prepare a feasibility study for the repair and long-term maintenance of the O'Brien and Godfrey Brook channels (\$16,800)).	Continue to maintain records and update program as needed.
Revised					
MGH4	Recycling and waste disposal program	Highway Dept.	Continue recycling and waste disposal program for municipal operations. Record quantities involved in program.	Program ongoing. 8,224 yds of mulched lawn waste collected in Fall of 2005 from 120 miles of Town streets at cost of \$34,141 and 1,419 hours of labor.	Continue program through all permit years.
Revised					

**6. Pollution Prevention and Good Housekeeping in Municipal Operations cont'd.**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
MGH5	Waste disposal/housekeeping training and practices	Highway Dept.	Continue proper disposal procedures, conduct training, keep logs of material disposal.	North Country Environmental performed a seminar outlining waste disposal and good housekeeping training and practices to 14 highway department employees on December 21, 2005.	Continue program through all permit years.
Revised					
MGH6	Identification, inspection, maintenance of Town owned BMPs	Highway Dept.	Inspection and maintenance of structures, maintain records.	<ul style="list-style-type: none"> <li>• 68 Town owned detention basins inspected between 6/9/05 and 3/15/06, inspection forms completed for each. 30 were identified as requiring maintenance. A letter was sent to one homeowner requesting a stop to yard waste and debris dumping near the basin.</li> <li>• Godfrey Brook inlet grates checked and cleaned monthly and after large storms (6/15, 7/8, 9/16, 10/12, 10/15, 10/16, 10/21, 10/25, 11/15, 12/16). Consultant contracted to prepare a feasibility study for the repair and long-term maintenance of the O'Brien and Godfrey Brook channels (\$16,800).</li> <li>• A total of 134 catch basins were repaired or replaced.</li> <li>• 750 gallons of oil/water removed from oil/water separator at the Highway Department Garage by North Country Environmental on March 6, 2005. 961 gallons were removed by Enviro-Safe Corporation on February 3, 2006 (cost of \$2,910).</li> <li>• \$0.5 million approved on 2/13/06 for planning and design of retrofit BMPs for outfalls discharging to Milford Pond.</li> </ul>	Perform recommended maintenance activities on detention basins. Continue program.
Revised					



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

Dry-weather field screening of all Town outfalls was completed by a consultant in the Fall of 2005 and "Dry Weather Outfall Investigation Summary Report" was completed November 2005. 22 outfalls were identified for further investigation at a cost of approximately \$25,000.

The quantities of materials accepted by the Town's recycling programs are recorded by the Board of Health and have been included in the following section.

**Part V. Program Outputs & Accomplishments**

**Education, Involvement, and Training**

Stormwater education materials collected and available at library	(y/n)	YES
Clean-up days held	(#)	11
<b>Household Hazardous Waste Recycling</b>		
▪ material collected (automotive waste oil)	(gal)	2135
▪ material collected (household paint)	(gal)	3636
▪ annual recycling (January 2005 - December 2005 (inclusive))	(tons)	1559

**Legal/Regulatory**

	In Place Prior to Phase II	Existing Regs Reviewed	Drafted	Adopted
<b>Regulatory Mechanism Status (indicate with "X")</b>				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
<b>Accompanying Regulation Status (indicate with "X")</b>				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control	X (partly)			X
▪ Post-Development Stormwater Management				X

## Mapping and Illicit Discharges

Number of outfalls mapped to date	(#)	300
Estimated or actual number of outfalls	(#)	303 (3 new outfalls since initial GPS mapping effort)
Mapping/Survey method(s)	type	GPS and CAD/GIS
Outfalls inspected/screened during dry weather	(#)	303 (100%)
Estimated % of population on sewer	(%)	80
Estimated % of population on septic systems	(%)	20
Outfalls identified for further investigation	(#)	22 (7%)
Outfall drainage systems mapped	(#)	4 (1%)
Illicit discharges traced	(#)	0
Illicit discharges removed	(#)	0

## Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	3079
Total amount of material removed from structures	(cubic yards)	2460
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		registered landfill
Disposal of yard waste		Composted and used by Parks and Highway Dept.

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	registered landfill

Anti-/De-Icing products	material	NaCl and limited CaCl <sub>2</sub>
Salt pile(s) covered in storage shed(s)	(y/n)	Yes