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June 30, 2009

Ms. Thelma Murphy  
U.S. Environmental Protection Agency - Region 1  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023

Subject: NPDES Phase II Small MS4 General Permit (MA041027)  
Annual Report  
Arlington, Massachusetts

Dear Ms. Murphy:

In accordance with the provisions of the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4s), please find enclosed the April 1, 2008 through March 31, 2009 Annual Report summarizing the status of Arlington's Stormwater Management Program. As required by the NPDES MS4 General Permit, a copy of this report has also been submitted to the Massachusetts Department of Environmental Protection, the co-permitting authority for the Commonwealth of Massachusetts.

Please do not hesitate to contact me at (781) 221-1175 with any questions or comments regarding this submission.

Very truly yours,

FAY, SPOFFORD & THORNDIKE

By

Deborah L. Duhamel, P.E.  
Principal Engineer

Enclosures: NPDES PII Small MS4 General Permit  
Annual Report

cc: Brian Sullivan, Town Manager, Arlington, MA  
Michael W. Rademacher, P.E. Town Engineer, Arlington, MA  
Cori Beckwith, Conservation Commission Agent, Arlington, MA  
Kevin O'Brien, Planning and Community Development, Arlington, MA

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**Municipality/Organization:** Arlington, Massachusetts

**EPA NPDES Permit Number:** MA041027

**MassDEP Transmittal Number:** W-040959

**Annual Report Number  
& Reporting Period:** April 1, 2008 – March 31, 2009

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

### Part I. General Information

**Contact Person:** Michael Rademacher      **Title:** Town Engineer

**Telephone #:** 781-316-3320      **Email:** mrademacher@town.arlington.ma.us

**Mailing Address:** 51 Grove Street, Arlington, MA 02476

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:** Brian J. Sullivan

**Printed Name:** Brian Sullivan

**Title:** Town Manager

**Date:** 7/2/09

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

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

Part II.F – Annual Report provided after May 1, 2009

**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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
1-1	Place Educational Information on the Town's Website	Department of Public Works, Town Webmaster	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Post stormwater related information on the Town Hall website.</li> <li>➤ Update website regularly.</li> </ul>	The final Stormwater Management Program (SWMP) was posted on the Town's website. Other stormwater related information is posted on the Town's website.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
1-2	Conduct Household Hazardous Waste Collection Days	Department of Public Works, Arlington Recycling Committee	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Sponsor 8 household hazardous waste collection days/yr.</li> <li>➤ Develop the Arlington Recycling Program brochure and distribute to all Arlington residents via a mass mailing on an annual basis.</li> <li>➤ Track the number and type of informational brochures collected by Arlington residents at the DPW and at the booth at Arlington Town Day.</li> <li>➤ Send 8 press releases advertising the event to the <i>Arlington Advocate</i> and track whether they were published.</li> <li>➤ Advertise the events on the Town's website.</li> </ul>	The DPW sponsored 8 household hazardous waste collection days at the Minuteman Hazardous Product Facility in Lexington, MA. The events were advertised in the <i>Arlington Advocate</i> and on the Town's website. A postcard calendar on Arlington's recycling program was distributed to residents. Additionally, the Town holds two recycling events per year.	TBD
1-3	Intensify the Existing Pet Waste and Waterfowl Management Campaign	Board of Health, Animal Control Officer	<p><b>Spring '04/'05/'06/'07/'08/'09</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of brochures distributed.</li> <li>➤ Educate Animal Control Officer on the importance of pet waste and waterfowl management.</li> <li>➤ Develop an informational press release on pet waste and waterfowl management for the <i>Arlington Advocate</i> and track whether it was published.</li> </ul>	The Board of Health made the brochure on pet waste and waterfowl management available to the residents. Verbal warnings to residents feeding the geese were issued. The number of brochures distributed was not tracked but is estimated to be about 50 brochures.	TBD
1-4	Place Educational Information on Arlington Cable Television (ACTV)	Department of Public Works, Arlington Community Television	<p><b>Fall '04 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Obtain "Oil Leak" and "Fertilizer" PSA's from the Washington State Department of Ecology Water Quality Consortium.</li> <li>➤ Track how frequently the PSA's are broadcast on ACTV.</li> </ul>	The PSA's "Don't Feed the Storm Drain – Plop" and "Oil Recycling" were not broadcast on ACTV. Information regarding CRT drop-off is shown on ACTV.	TBD

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 – Future
1-5	Promote Water Conservation Practices for Homeowners	Department of Public Works	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Post water conservation posters at Town Hall and the public libraries.</li> <li>➤ Include water conservation bill inserts with the water bill.</li> </ul>	Posters were hung in the Town Hall and public libraries. Educational displays on water conservation were also posted at the libraries. Rain barrels were sold to residents. Rain gages and adjustable hose heads provided by the DEP were made available to the residents at EcoFest.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
1-6	Develop a Stormwater Press Release and Flyer Targeting Community Businesses	Department of Public Works, Town Webmaster	<p><b>Fall '05/07</b></p> <ul style="list-style-type: none"> <li>➤ Submit the press release to the <i>Arlington Advocate</i> and track whether it was published.</li> <li>➤ Submit copies of the informational flyers to the Arlington Chamber of Commerce (ACC) and track whether it was included in the newsletter.</li> <li>➤ Post the informational flyer on the Town's website.</li> </ul>	The educational stormwater press release was not developed during Permit Year 6.	TBD

**1a. Additions**

No additions to report at this time.

## 2. Public Involvement and Participation

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 – Future
2-1	Public Access to SWMP and Receipt of Comments	Department of Public Works, Town Webmaster	<p><b>Winter '03/04 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Make draft SWMP available to the public for the review and comment period.</li> <li>➤ Finalize SWMP.</li> <li>➤ Make the final SWMP accessible to the public via the Town's public libraries and website.</li> </ul> <p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Develop "Reduce Fertilizer Flyer" and track the number of volunteers involved in its distribution.</li> <li>➤ Develop door hanger and track the number of volunteers involved in its distribution.</li> <li>➤ Post Spy Pond-related information on the Spy Pond website and update website regularly.</li> <li>➤ Host booths at Arlington Town Day.</li> </ul>	<p>The DPW made the final SWMP available to the public via the Town's public libraries and website, as well as the DPW office at Town Hall and the DPW operations center.</p>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>
2-2	Educational Outreach for Spy Pond	Spy Pond Committee, Friends of Spy Pond Park, Planning and Community Development Department	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Develop "Reduce Fertilizer Flyer" and track the number of volunteers involved in its distribution.</li> <li>➤ Develop door hanger and track the number of volunteers involved in its distribution.</li> <li>➤ Post Spy Pond-related information on the Spy Pond website and update website regularly.</li> <li>➤ Host booths at Arlington Town Day.</li> </ul>	<p>Educational outreach continued through distribution of fertilizer flyers and hosting booths at Arlington Town Day. Spy Pond-related information continues to be posted on the Spy Pond website. The Spy Pond Committee hosted events that celebrated the pond. New activities included facilitating kayak rentals. An "EcoFest" forum was held on March 28, 2009. Town groups had tables highlighting their projects; local gardening and landscaping businesses (including composting and other sustainable gardening practices) had information and demonstration tables. The coyote has been stolen and is therefore no longer positioned at Spy Pond.</p>	TBD
2-3	Sponsor Annual Cleanup at Spy Pond	Spy Pond Committee, Friends of Spy Pond Park, Department of Public Works, Planning and Community Development Dept.	<p><b>Spring '03 – '09</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of cleanup volunteers and supporting businesses.</li> <li>➤ Track the quantity and types of waste collected as a result of the cleanup event.</li> </ul>	<p>A clean up of Spy Pond occurred on May 10, 2008. Volunteer groups improved eroded paths with stone steps, cut back invasive plants, and removed litter. Removal of invasive plants has blanket permission from the Conservation Commission. During clean-up events education on invasive species was offered.</p>	TBD

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 – Future
2-4	Sponsor Storm Drain Marking Activities at Spy Pond	Spy Pond Committee, Planning and Community Development Department	<p><b>Spring '05</b></p> <ul style="list-style-type: none"> <li>➤ Identify areas where marking will take place and establish schedule for the activity.</li> <li>➤ Track the number of storm drains marked each year.</li> <li>➤ Track the number of volunteers assisting in the marking activity.</li> <li>➤ Provide maintenance to previously installed markers as necessary.</li> <li>➤ Publicize storm drain marking event(s) via a press release to the <i>Arlington Advocate</i>.</li> </ul> <p><b>Spring '03 - '09</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of cleanup volunteers and supporting businesses.</li> <li>➤ Track the quantity and types of waste collected as a result of the cleanup event.</li> </ul>	No storm drain marking activities occurred during Permit Year 6.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
2-5	Sponsor Annual Clean-up at Arlington Reservoir	Arlington Reservoir Committee, Department of Public Works	<p><b>Spring '03 – Winter '08/'09</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of Land Steward volunteers.</li> <li>➤ Maintain records of major activities, such as clean-ups, at individual sites.</li> <li>➤ Develop an informational press release on the Land Steward Program for the <i>Arlington Advocate</i> and track whether it was published.</li> <li>➤ Develop an informational brochure on the Land Steward Program and track the number of brochures distributed by residents.</li> </ul>	A clean up of Arlington Reservoir was conducted on October 4, 2008.	TBD
2-6	Conservation Land Stewards	Arlington Conservation Commission	<p><b>Spring '03 – Winter '08/'09</b></p> <ul style="list-style-type: none"> <li>➤ Track the number of Land Steward volunteers.</li> <li>➤ Maintain records of major activities, such as clean-ups, at individual sites.</li> <li>➤ Develop an informational press release on the Land Steward Program for the <i>Arlington Advocate</i> and track whether it was published.</li> <li>➤ Develop an informational brochure on the Land Steward Program and track the number of brochures distributed by residents.</li> </ul>	No annual meeting of the Conservation Land Stewards was held in 2008. A cleanup of Meadowbrook Park occurred on May 3, 2008. The Conservation Land Stewards had a combined booth with the Conservation Commission at Town Day.	TBD
2-7	A-B-C Stormwater Flooding Board to Address Issues in the Little River and Alewife Brook Areas	Board of Selectmen, Town Webmaster	<p><b>Spring '04 – Winter '08/'09</b></p> <ul style="list-style-type: none"> <li>➤ Execute the Environmental Joint Powers Agreement.</li> <li>➤ A-B-C Stormwater Flooding Board to meet throughout the permit term.</li> <li>➤ Information and status of Board's activities to be reported on Town website and in the <i>Arlington Advocate</i>.</li> </ul>	Data collection and analysis activities occurred along the Alewife Brook. The Board funded a USGS gage on the Alewife Brook. Other efforts of the Board focused on developing future studies and obtaining funding to conduct studies. Information regarding the Board's activities was posted in the <i>Arlington Advocate</i> .	TBD

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 – Future
2-8	Conduct Lawn Care/Landscaping Survey in Spy Pond Watershed	Spy Pond Committee, Planning and Community Development Department	<p><b>Summer '05/'06</b></p> <ul style="list-style-type: none"> <li>➤ Develop and distribute survey.</li> <li>➤ Send a press release explaining the lawn care/landscaping survey to the <i>Arlington Advocate</i>.</li> <li>➤ Track the number of completed surveys.</li> <li>➤ Compile surveys to develop future educational outreach materials.</li> </ul>	<p>The survey done under a 319 Federal Grant was compiled and the results were used to develop future educational outreach materials. Information associated with lawn care/landscaping to reduce fertilizer use was included in flyers and was provided during the ecological landscape and water garden talks during EcoFest.</p>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>

**2a. Additions**

No additions to report at this time.

### 3. Illicit Discharge Detection and Elimination

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 – Future
3-1	Maintain Outfall Location Map	Department of Public Works	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Update the outfall location map if there are any changes to the stormwater drainage system during the permit term.</li> </ul>	Updated the outfall location map as required.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
3-2	Revision of Existing General and Zoning Bylaws	Planning and Community Development Department, Arlington Conservation Commission, Engineering Division of the Department of Public Works	<p><b>Spring '04 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Review Town's existing General and Zoning Bylaws.</li> <li>➤ Passed bylaws so that they fulfill the regulatory requirements of NPDES Phase II Minimum Control Measures 3, 4, and 5.</li> <li>➤ Have revised bylaws available for public comment to gauge public acceptance and revise as necessary.</li> <li>➤ Present revised bylaws at Town Meeting for adoption.</li> <li>➤ Stormwater bylaws on Town's website.</li> </ul>	<p>The Town passed Article 10 at Town Meeting 2007, which amends the bylaws to require that new development and redevelopment do not increase stormwater flow from the property. The bylaw will apply for (1) all development of a previously undeveloped vacant lot where the impervious area exceeds 500 square feet, and (2) alteration of a developed property resulting in an increase in the impervious area of a lot by more than 350 square feet.</p> <p>Project proponents will need to provide a stormwater plan for addressing the additional runoff to the Engineering Department for review and approval. The Town also passed Article 8, which expands the types and applications of porous pavement.</p>	TBD

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 – Future
3-3	Implement an Illicit Discharge Detection and Elimination Plan	Department of Public Works	<p><b>Winter '04/'05 – Winter '07/'08</b>  <b>Revise Date to Spring '07 – Winter '07/'08</b></p> <ul style="list-style-type: none"> <li>➤ Develop an Illicit Discharge Detection and Elimination Plan.</li> <li>➤ Conduct dry-weather field screening of outfalls and track the number of surveys indicating a possible illicit connection.</li> <li>➤ Trace the source of potential illicit discharges.</li> <li>➤ Track the number of illicit connections found.</li> <li>➤ Track the number of illicit connections repaired/replaced.</li> <li>➤ Report on the success of obtaining alternative funding to assist in illicit connection removal.</li> </ul>	<p>The Town designed the rehabilitation required in the sewer system tributary to the Ryder Street outfall on the north side of Mill Brook. The Town also televised the sewer and drains adjacent to the Brattle Court outfall. The Town completed design and began construction of sewer and drain rehabilitation measures in the vicinity of the Mystic Bank outfall. This work will be complete in the summer of 2009.</p> <p>The Town also completed sampling of drains adjacent to the Ryder Street outfall on the south side of Mill Brook in November 2008.</p>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>
3-4	Rehabilitate and Replace Sanitary Sewer Pipes	Department of Public Works	<p><b>Spring '03 – Fall '05</b>  <b>Revise dates to Spring '03 – Fall '08</b></p> <ul style="list-style-type: none"> <li>➤ Rehabilitation/replacement of sanitary sewer pipes exfiltrating wastewater.</li> <li>➤ There is a 12-segment (town areas)-15 year plan to evaluate, design and rehabilitate the entire town's sanitary sewer pipe system.</li> </ul>	<p>In the summer of 2008, the Town completed preliminary design for the rehabilitation of sewer service laterals on Hemlock Street and Lansdowne Road. (See also BMP 3-3 progress.)</p>	<p>TBD</p>

**3a. Additions**

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 – Future
3-5	Replacement and Maintenance of Mill Brook Culverts	Department of Public Works	<p><b>Summer '05 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Replace Mill Brook Culvert near Grove Street.</li> <li>➤ Maintain culvert as required.</li> <li>➤ Replace Mill Brook Culvert near Brattle Lane.</li> </ul>	<p>Construction contracts for maintenance and repairs of the Mill Lane and the Brattle Street culverts are scheduled for bid and award in calendar year 2009.</p>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>
3-6	Maintenance of Town Water Bodies	Department of Public Works	<p><b>Summer '06 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Establish a fund for the maintenance of Town water bodies.</li> <li>➤ Maintain water bodies as required.</li> </ul>	<p>The Town passed Article 24 at Town Meeting 2006, which established a special fund to provide maintenance, treatment, water quality monitoring activities and oversight of the Town's water bodies. The Attorney General approved this Article. Funding has been established and some work associated with Spy Pond has been conducted under this funding.</p>	<p>TBD</p>

#### 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 – Future
4-1	Develop a Site Inspection Form and Conduct Site Inspections	Department of Public Works (Engineering Section)	<p><b>Spring '05 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Track the frequency of inspections conducted for each site.</li> <li>➤ Track the completion of inspection forms.</li> <li>➤ Track the number of failed ESC BMPs discovered on each site.</li> <li>➤ Develop a formalized program to review and inspect proposed development plans for stormwater runoff controls and ESC best management practices.</li> <li>➤ Maintain records of the reviews and inspections.</li> </ul>	<p>Passage of Article 10 at Town Meeting 2007 (See BMP 3-2) formalized the Engineering Department's role of reviewing and inspecting proposed development plans for stormwater runoff controls and ESC best management practices. There is documentation for corrective actions only. Records were maintained; no corrective actions were reported during Permit Year 6.</p>	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
4-2	Develop and Implement a Citizen Tip Line	Department of Public Works, Town Webmaster	<p><b>Fall '05 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➤ Establish the Citizen Tip Line.</li> <li>➤ Advertise the Citizen Tip Line.</li> <li>➤ Track the number of complaints received via the Citizen Tip Line.</li> <li>➤ Track the problems/incidents remedied as a result of the Citizen Tip Line.</li> </ul>	<p>The Town uses a web-based question and answer forum, which permits residents to make stormwater complaints or comments through the Town's website.</p>	TBD

#### 4a. Additions

No additions to report at this time.

### 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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
5-1	Arlington Redevelopment Board Stormwater Design Guidelines	Planning and Community Development Department, Arlington Redevelopment Board	<p><b>Spring '04</b></p> <ul style="list-style-type: none"> <li>&gt; Use DEP's handbook for BMPs.</li> <li>&gt; Direct developers and consultants to the BMP handbook through DEP's website.</li> </ul>	<p>The Environmental Design Review process continues to require proposed development to manage stormwater on-site to the maximum extent possible. Developers and consultants are directed to DEP's website handbook for BMPS <a href="http://www.mass.gov/dep/water/laws/policies.htm#storm">http://www.mass.gov/dep/water/laws/policies.htm#storm</a></p> <p>Also, refer to Town Bylaw, Title V, Article 15.</p>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>
Revised			<p>The measurable goals for this BMP have been modified to reflect the Town's decision to direct developers and contractors to information provided through DEP relative to stormwater BMPs.</p>		

5a. Additions

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 – Future
5-2	Conservation Commission Permits to Improve Stormwater Quality	Conservation Commission	<p><b>Spring '06 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Issue permits for projects that will improve stormwater quality.</li> <li>➤ Track the number of permits issued.</li> </ul>	<p>Permits issued:</p> <p>(1) DEP File No. 91-194; Spy Pond aquatic weed control. Goal of program is to respond better to the needs of the pond by providing a proactive maintenance program.</p> <p>(2) DEP File No. 91-195; 53 Grove Street, gas line development. Above ground conditions to be returned to existing conditions.</p> <p>(3) DEP File No. 91-196; Dothan Street. New single-family home with drywell to be installed outside buffer zone.</p> <p>(4) DEP File No. 91-197; 995 Massachusetts Avenue, slope stabilization work. Work includes bioengineering techniques including wood cribs with live shrub cuttings. The shrub roots will help stabilize the slopes.</p> <p>(5) DEP File No. 91-198; 26 Lakeview Street. Remodel existing single-family home; drywell to be installed behind the erosion control line.</p> <p>(6) DEP File No. 91-199; 46 Pond Lane, redevelopment project of single-family home. A drywell will be installed to accept the basement drains.</p> <p>Follow-up of projects completed in 2008:</p> <ul style="list-style-type: none"> <li>-- East Arlington sewer repairs to prevent sewage contamination of stormwater in various locations completed.</li> <li>-- Menotomy Rocks Park path reconfigured for erosion control near Hills Pond.</li> <li>-- Gould Road sewer line repaired to prevent sewage leaking into Spy Pond.</li> </ul>	<p>To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)</p>

## 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 – Future
6-1	Develop a Formal Training Program for DPW Staff	Department of Public Works	<p><b>Fall '04 – Winter '08/09</b>  <b>Revise dates to Fall '08 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Establish a formal training program for DPW employees.</li> <li>➤ Conduct training sessions with all current employees.</li> <li>➤ Train all new DPW employees in accordance with the training program requirements.</li> <li>➤ Track employee training activities and participants trained.</li> <li>➤ Conduct refresher training for employees after every two years of employment.</li> </ul>	The DPW has acquired the necessary materials to begin a formal training program for DPW employees on stormwater pollution prevention.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
6-2	Catch Basin Cleaning Program	Department of Public Works	<p><b>Spring '03 – Winter '08/09</b></p> <p>Track the catch basins that are cleaned each year, including the leaching catch basins, Vortechnic devices and oil/water separator.</p> <ul style="list-style-type: none"> <li>➤ Maintain a log of the disposed materials.</li> </ul>	The DPW completed the annual catch basin cleaning program as scheduled. The DPW maintained a log of disposed materials.	TBD
6-3	Parking Lot and Street Sweeping Program	Department of Public Works	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Track the streets and lots that are swept each year.</li> <li>➤ Maintain a log of the disposed materials.</li> </ul>	The DPW completed annual parking lot and street sweeping program as scheduled. The Town has been divided into 35 districts and this grid system is used to schedule the street sweeping. The DPW maintained a log of disposed materials.	TBD
6-4	Implement Stormwater Pollution Prevention Plan	Department of Public Works	<p><b>Fall '04 – Winter '08/09</b>  <b>Revise dates to Fall '07 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Review the recommendations outlined in Table 5 of the SWPPP.</li> <li>➤ Develop a schedule to implement these recommendations.</li> <li>➤ Track progress in implementing recommendations.</li> </ul> <p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Continue to wash vehicles and equipment indoors.</li> <li>➤ Incorporate policy requirements into the DPW employee-training program.</li> <li>➤ Construct a new wash bay.</li> </ul>	No activities were performed during Permit Year 6.	TBD
6-5	Vehicle and Equipment Cleaning Policy	Department of Public Works	<p><b>Spring '03 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➤ Continue to wash vehicles and equipment indoors.</li> <li>➤ Incorporate policy requirements into the DPW employee-training program.</li> <li>➤ Construct a new wash bay.</li> </ul>	An indoor vehicle wash facility was constructed. The wash water is treated and discharged to the sewer system.	TBD

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 – Future
6-6	Develop a Landscaping and Lawn Care Policy	Department of Public Works	<p><b>Spring '05 – Winter '08/09</b>  <b>Revise dates to Spring '06 – Winter '08/09</b></p> <ul style="list-style-type: none"> <li>➢ Develop and implement a landscaping and lawn care policy.</li> <li>➢ Place policy in the DPW employee-training manual.</li> <li>➢ Document employee training and periodic re-training.</li> </ul> <p><b>Summer '04 – Fall '06</b>  <b>Revise Dates to Summer '04 – Summer '08</b></p> <ul style="list-style-type: none"> <li>➢ Install new stormwater drainage system in Summer Street.</li> </ul>	The DPW did not develop a landscaping and lawn care policy during Permit Year 6.	To be determined based on re-issuance and review of the NPDES General Permits for small MS4 stormwater discharges in Massachusetts. (TBD)
6-7	Replace Stormwater Drainage System Along Summer Street	Department of Public Works	<p><b>Spring '04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➢ Develop a maintenance plan for the detention basin at the Reed's Brook site.</li> <li>➢ Educate DPW employees on the proper maintenance of the detention basin and document training and periodic re-training.</li> <li>➢ Maintain records of maintenance activities.</li> </ul> <p><b>Summer '05/06</b></p> <ul style="list-style-type: none"> <li>➢ Develop plans for leaching catch basins.</li> <li>➢ Install leaching catch basins.</li> </ul>	Installation of the new stormwater drainage system in Summer Street was largely completed during Permit Year 4.	TBD
6-8	Maintenance of the Detention Basin at Reed's Brook	Department of Public Works	<p><b>Spring '04 – Winter '07/08</b></p> <ul style="list-style-type: none"> <li>➢ Develop a maintenance plan for the detention basin at the Reed's Brook site.</li> <li>➢ Educate DPW employees on the proper maintenance of the detention basin and document training and periodic re-training.</li> <li>➢ Maintain records of maintenance activities.</li> </ul> <p><b>Summer '05/06</b></p> <ul style="list-style-type: none"> <li>➢ Develop plans for leaching catch basins.</li> <li>➢ Install leaching catch basins.</li> </ul>	The DPW continued maintenance activities for the detention basin at the Reed's Brook site. Water quality sampling was not conducted.	TBD
6-9	Install Leaching Catch Basins In Spy Pond Watershed	Planning and Community Development Department, Department of Public Works	<p><b>Spring '08</b></p> <ul style="list-style-type: none"> <li>➢ Develop plans for town rain gardens</li> </ul>	No activities were planned for Permit Year 6.	TBD
6-10	Stormwater Best Management Practices	Planning and Community Development Department	<p><b>Spring '08</b></p> <ul style="list-style-type: none"> <li>➢ Develop plans for town rain gardens</li> </ul>	Rain gardens were not installed. However, an "EcoFest" best gardening practices symposium did occur on March 28, 2009.	TBD

### 6a. Additions

No additions to report at this time.

**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)**

NOT APPLICABLE TO THE TOWN OF ARLINGTON

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 - Future
Revised					

**7a. Additions**


**7b. WLA Assessment**

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

The Town of Arlington did not collect and/or analyze any data during Permit Year 6.

**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)		319 grant

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	N
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>	(#) (# or %) (tons or gal)	8
School curricula implemented	(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	ConCom				
▪ Post-Development Stormwater Management					X
<b>Accompanying Regulation Status (indicate with "X")</b>					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control	ConCom				
▪ Post-Development Stormwater Management					X

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	137
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100
<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	(%)	100
% of population on septic systems	(%)	0

**Construction**

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	0
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	(%)	100
Site inspections (for proper BMP installation & operation) completed **	(# or %)	50
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

**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
Qty of structures cleaned **	(#)	1,500
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	450
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	landfill

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		(#)	1
• Vacuum truck(s) owned/leased		(#)	2
• Vacuum trucks specified in contracts		(y/n)	N
• % Structures cleaned with clam shells **		(%)	98
• % Structures cleaned with vacor **		(%)	2

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	3
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	3
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	1000
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or In mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	3
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers **	%	100
• % Roads swept with vacuum sweepers **	%	0

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 **  (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	98% NaCl 2% Sand
Pre-wetting techniques utilized **	(y/n or %)	25
Manual control spreaders used **	(y/n or %)	100
Zero-velocity spreaders used **	(y/n or %)	0
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	30%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	-25%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	No
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Yes

**Water Supply Protection**

	# or y/n	N/A
Storm water outfalls to public water supplies eliminated or relocated		N/A
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	N/A
<ul style="list-style-type: none"> <li>• Treatment units induce infiltration within 500-feet of a wellhead protection area</li> </ul>	# or y/n	