

**Middleborough, Massachusetts**

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June 10, 2010

Glenda Velez  
United States Environmental Protection Agency  
5 Post Office Square – OEP06-01  
Boston, Massachusetts 02109-3912

**Re: Annual Report - NPDES Permit No. MAR041134  
Permit Year 7**

Dear Sir/Madam:

On behalf of the Town of Middleborough, Massachusetts, please find enclosed the Annual Report for permit year seven in accordance with the terms of the town's NPDES Phase II Municipal Separate Storm Sewer Systems (MS4) General Permit. As the report states, the town is in compliance with the permit, with minor exceptions as noted in Part II of the report. If you have any questions or require additional information, please do not hesitate to contact me at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON



Patricia C. Passariello, P.E. (NH)  
Project Manager

Attachment

cc: Fred Civian, MADEP-Boston  
Charles Cristello, Town Manager  
Andrew Bagas, DPW Director

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**Municipality/Organization:** Town of Middleborough, Massachusetts

**EPA NPDES Permit Number:** MAR041134

**MADEP Transmittal Number:** X233753

**Annual Report Number & Reporting Period:** No. 7: March 2009-March 2010

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Charles Cristello Title: Town Manager

Telephone #: (508) 947-0928 Email: ccristello@middleborough.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: Charles L. Brewster

Printed Name: \_\_\_\_\_

Title: Chairman, Board of Selectmen

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

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

The Town of Middleborough, Massachusetts has completed the required self-assessment and has determined that, based on existing information, our municipality is in compliance with the conditions of the permit. The exception to this statement is where BMPs differed from those stated in the 2003 Notice of Intent (NOI), as detailed in Part III. In addition, we apologize for the delay in submitting this annual report, which was delayed due to staff turnover and re-organization of the town structure. Stormwater compliance is currently under the new Director of Public Works, Mr. Andrew Bagas. The Highway Superintendent will continue to have stormwater responsibilities (as per the Stormwater Management Plan) once the town is able to successfully fill this position.

## **Part III. Summary of Minimum Control Measures**

All Best Management Practices (BMPs) listed in our July 2003 Notice of Intent were implemented, with minor exceptions. Please see Table III, Summary of Minimum Control Measures (Attachment A) for a listing of the BMPs and the following detailed analysis of the exceptions:

- 2a – Expand the Citizen’s Advisory Committee: As stated in prior years, although a Citizens Advisory Committee was created, the town was unable to maintain involvement and activity in this committee. The town plans to develop and pursue other Public Participation efforts that will, hopefully, be more successful. This effort will be coordinated with re-issued of the General Permit to ensure that it meets any new requirements.
- 2d – Implement a Catch Basins Stenciling Program: The town has obtained catch basin stencils and initiated a program to stencil all catch basins in conjunction with catch basin cleaning (weather permitting).
- 3a – Map Outfalls and Receiving Waters: Middleborough has been working on a town-wide inventory of drainage infrastructure that includes catch basins, drain manholes, and outfalls. This includes physically locating outfalls for each of the catch basins, collecting Global Positioning System (GPS) data on the outfalls, and adding GPS data to the existing drainage layer in the town’s Geographic Information System (GIS). However, due to the total land area in Middleborough, this task has taken far longer than anticipated. Inventory of catch basins and outfalls is complete on approximately 297 out of 380 streets townwide (77%). Approximately 250 streets (65%) are located within the Urbanized Area, and inventory is completed on an estimated 160 of these streets (65%). The town will continue to work towards inventory of all catch basins and outfalls in the Urbanized Area.
- 6e – Perform Follow-ups to Ensure Required Practices are Met: Stormwater audits were completed at each of its 30 municipal buildings and stormwater training was provided to employees. Corrective action was taken, but follow-up audits not completed.

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

Since the last annual report, the town has continued on-going efforts begun under the 2003 permit. In anticipation of a new permit issuance in 2009-2010, the town did not undertake any *new* data collection activities.

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

**Programmatic**

Stormwater management position created/staffed	(y/n)	No. Responsibilities split under Highway, Planning, & Conservation.
Annual program budget/expenditures	(\$)	SW not separate budget.

**Education, Involvement, and Training**

Estimated number of residents reached by education program(s)	(# or %)	?
Stormwater management committee established	(y/n)	See discussion in Part III.
Stream teams established or supported	(# or y/n)	Not by town. Taunton River Watershed Association has.
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	NA.
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	Wastes collected at town LF during all normal operating hours.
▪ community participation	(%)	?
▪ material collected	(tons or gal)	Town transferred LF to contract O&M.
School curricula implemented	(y/n)	None specifically under this program.

**Legal/Regulatory**

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X

### Mapping and Illicit Discharges

Outfall mapping complete	(%)	Please see discussion under BMP 3a in Section III.
Estimated or actual number of outfalls mapped	(#)	75
System-Wide mapping complete	(%)	Please see discussion under BMP 3a in Section III.
Mapping method(s)		
▪ Paper/Mylar	(%)	Record drawings exist for drainage projects and new/re-development. Apprx. 50% of drainage piping network schematically mapped on GIS. Please see discussion under BMP 3a in Section III for status of outfall and catch basin GIS.
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	Initial wet-weather sampling attempted on 14 outfalls; samples taken @ 10 outfalls.
Illicit discharges identified	(#)	None.
Illicit connections removed	(#) (est. gpd)	N/A.
% of population on sewer	(%)	33%
% of population on septic systems	(%)	67%

### Construction

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 completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

**Operations and Maintenance**

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)
Total number of structures cleaned	(#)
Storm drain cleaned	(LF or mi.)
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	
Cost of screenings disposal	(\$)
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)
Qty. of sand/debris collected by sweeping	(lbs. or tons)
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)
Cost of sweepings disposal	(\$)
Vacuum street sweepers purchased/leased	(#)
Vacuum street sweepers specified in contracts	(y/n)
Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)	
▪ Fertilizers	(lbs. or %)
▪ Herbicides	(lbs. or %)
▪ Pesticides	(lbs. or %)
Anti-/De-Icing products and ratios (% NaCl, % CaCl <sub>2</sub> , % MgCl <sub>2</sub> , % CMA, % Kac, % KCl, % Sand)	(%)
Pre-wetting techniques utilized	(y/n)
Manual control spreaders used	(y/n)
Automatic or Zero-velocity spreaders used	(y/n)
Estimated net reduction in typical year salt application	(lbs. or %)
Salt pile(s) covered in storage shed(s)	(y/n)
Storage shed(s) in design or under construction	(y/n)

**ATTACHMENT A**

**Table III  
Summary of Minimum Control Measures**

**Table III**  
**Summary of Minimum Control Measures**

BMP ID#	Best Management Practice	Responsible Party	Measurable Goal	Progress on Goal - Permit Year Six
<b>1. Public Education</b>				
1a	Distribute/post non-point source pollution poster	Town Manager	Post in all schools and town buildings	Completed. Stormwater education posters posted in schools/town offices.
1b	Air stormwater message on local cable access channel	Town Manager	Post one message every month	Completed. Continuous play stormwater messages on town website.
1c	Obtain and distribute auto repair shop brochures	Highway Department	Distribute to all impacted local businesses	Completed. Letters/information mailed to businesses believed to have waste oil.
1d	Add stormwater information to town's Website	Town Manager	Update information quarterly to address seasonal concerns	Completed. Year-round stormwater tips on website.
<b>2. Public Participation</b>				
2a	Expand Citizen's Advisory Committee	Town Manager	Hold quarterly meetings	NA. See discussion in Section III.
2b	Collect and recycle waste oil from residents	Highway Department	Collect waste oil at least once per month from residents	Completed. Waste oil collection and recycling offered at landfill.
2c	Collect paint from residents	Highway Department	Collect paint from residents on at least a quarterly basis	Completed. Paint collection offered at landfill.
2d	Implement a Catch Basin Stenciling Program	Highway Department	Stencil 25% of catch basins each year	Stenciling on-going. See discussion in Section III.
<b>3. Illicit Discharge Detection and Elimination</b>				
3a	Map outfalls and receiving waters	Highway Department	Map 25% of outfalls that drain urbanized areas each year	Town-wide inventory of CBs/DMHs/outfalls on-going. See discussion in Section III.
3b	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fulfill EPA requirements	Completed. Existing regulatory mechanisms reviewed.
3c	Develop Illicit Discharge Detection & Elimination Plan	Planning Department	Make recommendations for inclusion into proposed plan	Completed. IDDE Plan developed.
3d	Develop/Modify General Illicit Discharge Bylaw	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Modifications drafted.
3e	Present Bylaw for Town Meeting Action	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Revisions enacted.
<b>4. Construction Site Runoff Control</b>				
4a	Review existing site inspection practices	Planning Department	Determine if existing practices fulfill EPA requirements	Completed. Existing site inspection practices reviewed.
4b	Develop/modify site inspection program	Planning Department	Make recommendations for modifying existing program	Completed. No modifications required.
4c	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fulfill EPA requirements	Completed. Existing regulatory mechanisms reviewed.
4d	Develop/modify bylaw for construction site runoff	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Modifications drafted.
4d	Present Bylaw for Town Meeting Action	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Revisions enacted.
<b>5. Post Construction Runoff Control</b>				
5a	Review existing site inspection practices	Planning Department	Determine if existing practices fulfill EPA requirements	Completed. Existing site inspection practices reviewed.
5b	Develop/modify inspection and maintenance practices	Planning Department	Made recommendations for modifying existing practices	Completed. No modifications required.
5c	Review existing bylaws and regulations	Planning Department	Determine if existing bylaws and regulations fulfill EPA requirements	Completed. Existing regulatory mechanisms reviewed.
5d	Develop/modify bylaws for post-construction site runoff	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Modifications drafted.
5e	Present Bylaw for Town Meeting Action	Planning Department	Propose recommendations for modifying/developing bylaw	Completed. Revisions enacted.
<b>6. Municipal Good Housekeeping</b>				
6a	Street sweeping program	Highway Department	Sweep all streets at a minimum twice per year	Completed. Street sweeping performed by DPW.
6b	Catch basin cleaning program	Highway Department	Check catch basins quarterly and clean up to twice per year	Completed. Catch basin inspection and cleaning performed by DPW.
6c	Perform site visits to examine existing practices at facilities	Highway Department	Target all applicable municipal facilities.	Completed. Stormwater audits performed at 30 municipal properties.
6d	Train municipal employees at each town facility	Highway Department	Target all applicable municipal facilities.	Completed. Training of municipal employees performed.
6e	Perform follow-ups to ensure required practices are met	Highway Department	Target all applicable municipal facilities.	See discussion in Section III.