



# TOWN OF DOVER

P.O. Box 250  
Dover, Massachusetts 02030

ROBERT H. HOMER, P.E.  
Town Engineer Consultant

Telephone: (508) 785-8112  
Fax: (508) 785-8115

MAY 5 2009

April 28, 2009

9

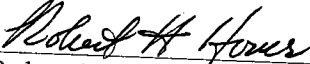
United States Environmental Protection Agency  
Region 1  
1 Congress St.  
Boston, Ma. 02114

Reference: NPDES Phase II Small MS4 General Permit Annual Report #6  
EPA NPDES Permit Number MAR041107

Dear Ms. Velez,

WE are submitting herewith the annual report of our progress in implementing the Phase II Storm Rule provisions for the year 2008.

Very truly yours,

  
Robert H. Homer, P.E.

Copy: DEP

**Municipality/Organization:** DOVER

---

**EPA NPDES Permit Number:** MAR041107

---

**MassDEP Transmittal Number:** W-040845

---

**Annual Report Number**      Year 6  
**& 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: ROBERT H. HOMER, P.E.                      Title: TOWN ENGINEER

---

Telephone #: 508-785-8112                      Email: ENGINEER@DOVER.ORG

---

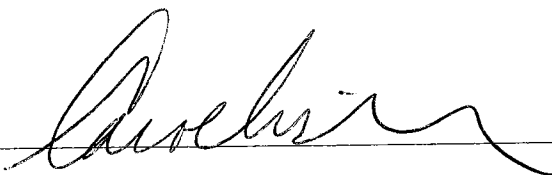
Mailing Address: 5 SPRINGDALE AVE. DOVER 02030

---

#### 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: CAROL LISBON

---

Title: CHAIRMAN, DOVER BOARD OF SELECTMEN

---

Date: 4-29-09

---

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

**There is no stormwater watershed committee and no public participation. By-laws regarding erosion control runoff criteria have been adopted and have been included in the Dover Code.**

**The selected BMP's are appropriate and has been in practice prior to Phase II.**

**We have nearly reached our measurable goals.**

**There has been no testing within our Urban Areas relative to Phase II.**

**During this reporting cycle Public Education and Outreach in ongoing.**

**There are no changes in the BMP's or measurable goals.**

**The CWRA is our partner in the program.**

**All of the town boards and departments collaborate in enlightening builders, developers and owners regarding Phase II and permit processes.**

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 – Permit Year 6
1.1 Revised	BMP Description	Engineering Robert Homer	Poster Displays	Placed in public buildings	Revising and renewing displays
1.2 Revised	Press Releases	Engineering	Phase II info	Releases not composed yet	Compose press releases
1.3 Revised	Ground Water	Engineering	Locating wells and septic systems by GIS	To be developed by the BOH	Provide mapping by GIS
1.4 Revised	Hazardous waste collection		Places, dates and time for pickup	Waste taken to Medfield	Collected waste during April 2009
1.5 Revised	Watershed management	Robert H. Homer	Revised planning board Rules and Regulations	Assigned as groundwater protection agent for the town	Develop new posters and handouts from CWRA and MaHwy
Revised					

1a. Additions


**2. Public Involvement and Participation**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
2.1 Revised	Stormwater committee	Selectmen	Appoint Committee	No progress	None
2.2 Revised	Adopt a stream	None	None	Nothing	None
2.3 Revised	Adopt a street	None	None	Nothing	None
2.4 Revised	Stormwater management plan	Engineering	Complete plan	Completed	Nothing
Revised					
Revised					

**2a. Additions**


**3. Illicit Discharge Detection and Elimination**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
3.1 Revised	Map drain systems	ENGINEERING	Map systems and outfalls	Completed	Nothing
3.2 Revised	Capital budget and planning	Engineering and superintendent of streets	Inspected outfalls	Inspected outfalls	No illicit discharges
Revised					
Revised					
Revised					
Revised					

**3a. Additions**


**4. Construction Site Stormwater Runoff Control**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
4.1 Revised	Town regulations	Engineering Selectmen	Regulate runoff Erosion control notes	Town by-law governing runoff	Develop site plan checkoff list for permit plans
4.2 Revised	Site plan review	Engineering	Alert site designers of check list	Site designers follow checklist handed out by building department	Continue reviews and fax comments to designers for compliance. Check revised plans
4.3 Revised	Site inspection	Engineering	No backfilling foundation until inspected	Contractor calls for inspection before backfilling. Perimeter drain and outlet inspected before backfilling.	Continue inspections
Revised					
Revised					
Revised					
Revised					

**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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
5.1 Revised	Town by-laws and pl. bd. Rules and regulations	Engineering Town planner	Adopt by-laws and regs.	Adopted	Inspection og 2 40B projects
5.2 Revised	Design standards	Planning board Zoning board	Review comprehensive permit and definitive plqan for atwood circle.	Completed	Periodic inspection of infrastructure
5.3 Revised	Final inspection	Engineering	Identify non-compliance with comprehensive permit and atwood circle	Deviation from plans noted and developer informed	Continued inspections
Revised					
Revised					
Revised					
Revised					

**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 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
6.1 Revised	Coordination of town departments	Selectmen	Compliance with phase II	No non-compliance	Continue coordination
6.2 Revised	Questionnaire on department activities	Engineering	Review of answered questionnaire	De-icing chemicals monitored. Fertilizers, pesticide, and herbicide are all organic	Continue monitoring
6.3 Revised	Street cleaning	Superintendent of streets	Schedule operations	Annual spring cleanup	Continue maintenance
6.4 Revised	Catch basin cleaning	Superintendent of streets	Schedule street	Batch basins cleaned are paint marked. Silt deposited in town compost area.	Continue maintenance
6.5 Revised	Employee training	Superintendent of streets & dir. Of park and rec.	On the spot directions	Taking place as matter of routine	Continuation of anti pollutant policies
Revised					

**6a. Additions**


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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 4 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 5
7.1 Revised	Check outfalls	Engineering	Schedule inspections	All outfalls and inspected. No partners	Continue inspections
7.2 Revised	Identify illicit discharges	Engineering	Testing for water quality	No testing	Testing outfall at 40B project
7.3 Revised	Establish TDMs	Engineering	Identify pollutane source if any.	None found	Continue observations
7.4 Revised	Pollutant removal	Engineering	40B and atwood circle subdivision storm water treatment units	Treatment units in place	Continued inspections
Revised					
Revised					

7a. Additions


7b. WLA Assessment

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

Our mapping of urban areas is complete and the outfall inspected for illicit discharges. Dover has no industries, no public sewers, nor CSOs. There is a small business area and some agriculture, small home gardens and one or two small cooperative truck gardens. Outfalls have not been tested by the town.

**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)	
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)	
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
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					
Accompanying Regulation Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					
▪ Erosion & Sediment Control					
▪ Post-Development Stormwater Management					

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ 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	(%)	
% of population on septic systems	(%)	

**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)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
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 vector **	(%)	

	(Preferred Units)	Response
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)	
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	(#)	
• Vacuum street sweepers owned/leased	(#)	
• 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 ** (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 % K <sub>ac</sub> % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

**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