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5/1/08

Municipality/Organization: Town of Groveland

EPA NPDES Permit Number: MA041195

MaDEP Transmittal Number: W-035834

Annual Report Number & Reporting Period: No. 5: March 2007-March 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: William H. Darke Title: Chairman – Board of Selectmen

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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: William H Darke

Title: Board of Selectmen - Chairman

Date: 4/29/08

Part II. Self-Assessment

- **Stormwater Committee received $21,250 in funding for 2008. Funding used towards fulfilling NPDES PII requirements.**
- **A compost site located at the Highway Department received a permit from MA DEP for 2008. All catchbasin screenings and debris and all street sweepings are to be used for compost. The compost is to be used as loam for town property and road sides.**
- **Use of NaCl and liquid Ice-Ban for roadways for 07/08. No sand used in MS4 area.**

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
1A	Public Education Seminars	Board of Selectmen	Number per year	Stormwater Committee met several times. Cammett Engineering contracted to assist in fulfilling requirements. All meetings open to the public.	
Revised					
1B	Storm water education flyers	Board of Selectmen	Number of flyers dist. per year	Informational flyers printed and mailed out with water billings. Educational poster on display at town hall.	Plan another mailing for 09
Revised					
1C	Storm water web page	Board of Selectmen	Number of web page visits	Stormwater Committee informational web page created.	
Revised					
1D	Local cable station campaign	Board of Selectmen	Number of times shown	Stormwater DVD converted to VHS tape for potential showing	Run on local cable
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
2A	Comment & Q&A at seminars	Board of Selectmen	Document concerns & respond	Stormwater Committee meetings open to the public.	Encourage public involvement.
Revised					
2B	Volunteer cleanup & monitoring	Board of Selectmen	# of volunteers & accomplishments	Determine groups to hold "Stream cleanup days". It is anticipated the Boy Scouts will volunteer.	
Revised					
2C	Local business partnerships	Board of Selectmen	# per year & accomplishments	None to date	
Revised					

2a. Additions

2D	Storm Drain Stenciling	Board of Selectmen	Number of drains stenciled	All storm drains stenciled during summer 2007	

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
3A	Storm Drain System Map	Board of Selectmen	Identify & remove illicit discharges	Cammett Engineering located all catchbasins, manholes, and known outfalls using GPS. Data was added to base map.	Data to be added to GIS system.
Revised					
3B	Ordinance prohibiting illicit discharges	Board of Selectmen	Adoption of ordinance	Bylaw to be adopted at Fall Town Meeting.	
Revised					
3C	Plan to detect illicit discharges	Board of Selectmen	# of illicit discharges identified	Ongoing subdivision review by consulting engineer and ongoing observation by DPW personnel	Ongoing subdivision review by consulting engineer and ongoing observation by DPW personnel
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
4A	Ordinance for erosion & sediment control at construction sites	Board of Selectmen	Adoption of ordinance	Bylaw in place.	
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
5A	Enforce MA DEP WPA Storm water management policy on sites >1ac.	Board of Selectmen	Adoption of Site Plan review Zoning By-Law	All new subdivisions and site plans comply with MA DEP WPA Stormwater Management Policy	Maintain conformance
Revised					

5a. Additions

5B	Ordinance for post stormwater management	Board of Selectmen	Adoption of ordinance	Bylaw in place.	

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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Future
6A	Develop municipal O&M plan	Office of the Road Commissioner	# of structures/streets cleaned, amount of employee training	Main arterials are swept and catchbasins cleaned twice/year. Non-arterials are swept and catchbasins cleaned once/year.	Maintain O&M
Revised					
6B	Upgrade inadequate drainage systems	Office of the Road Commissioner	Number of upgrades per year	Catch Basin Replacement • Rollins St. (2) Storm drain cleaning: • Center St. (200 lf)	Maintain O&M
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 5 (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

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures	($)	$21,250 (2008)

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	2000
Stormwater management committee established	(y/n)	Yes
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

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				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	75
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	75
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	100
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

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)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2
Total number of structures cleaned	(#)	1000±
Storm drain cleaned	(LF or mi.)	200±
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	150-200 CY
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Compost
Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2
Qty. of sand/debris collected by sweeping	(lbs. or tons)	75± CY
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost
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 %)	N/A*
▪ Herbicides	(lbs. or %)	N/A*
▪ Pesticides	(lbs. or %)	N/A*
*Only used by turf management professionals for town ballfields.		

Anti-/De-Icing products and ratios **2 – 3000 gallon storage tanks at town garage holding Ice-Ban Magic**	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	100% NaCl
Pre-wetting techniques utilized	(y/n)	Yes (Ice-Ban)
Manual control spreaders used	(y/n)	No
Automatic or Zero-velocity spreaders used	(y/n)	100% Auto
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	