

Municipality/Organization: Grafton

EPA NPDES Permit Number: MARO041119

MaDEP Transmittal Number: W-035459

**Annual Report Number
& Reporting Period:** No. 3: May 2005-May 2006

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NPDES PII Small MS4 General Permit Annual Report

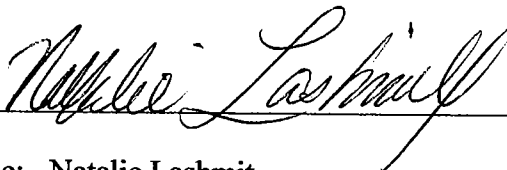
Part I. General Information

Contact Person: Roger Hammond **Title:** Director of Public Works

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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: Natalie Lashmit

Title: Town Administrator

Date: May 1, 2006

Part II. Self-Assessment

This past year has been one of considerable growth within the Town of Grafton. Once again we are on pace to complete over 200 new homes here in Town. One of the major components of our program that we have done particularly well is the Public Participation and Public Involvement BMP's. Once again we have teamed with the Sudbury Assabet Concord Community Council's Water Quality / Water Quantity Sub-committee to provide these services. We were also successful in procuring funds to have a 40-scale flight of our Town done to integrate into our Geographic Information System. This will allow us to enhance our tracking of outfalls from what we had originally done for this permit.

Mass Highway and the Mass Turnpike Authority have filed a draft permit with EPA. Both of these facilities traverse the Town of Grafton and have a significant impact upon our receiving waters. We are hopeful that we can continue to foster a positive relationship with these entities.

The Highway Department has continued to expand our street sweeping program. During winter months, when our equipment is able to do so, we are sweeping throughout Town. We concentrate on industrial/commercial areas first and then move our way outward to roadways with major outfalls to brooks, streams and rivers.

The Town of Grafton has continued to allocate monies to our Geographic Information System. In FY 2006, monies were allocated to do a 40-scale flight of the whole Town. This, in conjunction with our location of storm drain outfalls in the past by Global Positioning System (GPS), will enhance our ability to find and track our outfalls.

The Board of Health enacted strict floor drain regulations in January of 2006.

The Conservation Commission has been aggressively pursuing contractors in regards to their stormwater management plans.

Our existing town by-law's regarding sedimentation, in conjunction with regular inspections, has virtually made sedimentation issues non-existent. Proof of the benefits we have seen were apparent during the 100-125 year storm we experience on October 15-16, 2005. We had minimum break-throughs due to sedimentation controls in place.

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
1B Revised	Stormwater Lesson Plan for Fifth Graders	SUASCO & DPW	Completed	Were very successful integrating this into the 5 th grade science curriculum.	Continue to use this lesson plan in future years
1J Revised	Stormwater Info on Town Website	DPW	Completed	Received very well.	Continue to add information, draft by-law's to site.
1A Revised	Stormwater Flyer for Residents	DPW, Town Clerk	On-Going	New Residents are given stormwater flyer as they come in to register to vote etc.	Continue program
1I Revised	Newspaper Articles	DPW	On-Going	With local newspaper, run article specific to stormwater on a quarterly basis.	Continue with current schedule.
1D Revised 09/05	Stormwater Flyer for Community Businesses <i>PowerPoint on stormwater</i> Media Toolkit	DPW DPW/SUASCO DPW/SUASCO	Completed Completed Completed	Created Powerpoint presentation to be show at various meetings and committees. Changed from original plan a little bit. Created Media Toolkit for distribution to local newspapers	Continue this program. Expand audience that this is presented to include teachers and Chamber of Commerce. Continue program

1a. Additions

1K	Trees and their use for stormwater management	DPW, Tree Warden	On-going	As part of Tree City USA campaign, inform residents of trees and their benefits for stormwater management	Continue program. Pursue grants to further implement this program.
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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
2B Revised	Poster Contest for Fifth Graders	SUASCO & DPW	Completed	Done in conjunction with stormwater lesson plan	May continue. Lesson plan will continue to b taught. Depends on teacher involvement.
2F Revised	Annual Stormwater Public Hearing	DPW	On-Going	Have not had a formal hearing. Continue to work with many boards and commissions. Stormwater is a major issue due to development.	Continue work with boards and commissions
2G Revised	Watershed Group Involvement	DPW & Local Groups	On-Going	Part of SUASCO Steering Committee, Mass Audubon and Blackstone Headwaters Coalition	Continue to expand local participation.
2C Revised 10/05	Stormwater Photo Contest for High Schoolers <i>Stormwater Summit</i>	DPW & SUASCO DPW & SUASCO	Changed	Use PowerPoint as main information for summit in Town.	
Revised					
Revised					

2a. Additions

2I	Purchase lands for conservation	Town Meeting	On-Going	Completed purchase of 190 acres Hassanamessit Woods.	As lands are removed from CH 61A, Town pursues.

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
3A Revised	Illicit Discharge Bylaw/Regulation	DPW, Planning, Conservation	Develop Draft By-Law	Continue to receive feed-back on draft	Float new By-law as guidance. One year of comment period
3B Revised	Storm Drain Map	DPW	Find, GPS Survey map outfalls at least 20%/yr.	Additional outfalls have been found and mapped on top of 90% done last year.	As part of FY06 Capital Budget, GIS flight was performed. This will greatly enhance our environmental planning ability in Town.
3C Revised	Illicit Discharge Detection and Elimination	DPW, Planning, Sewer, Bldg., Board of Health	Determine Priority areas. Screen outfalls during dry weather. 20%/yr.	20% screened. With purchase of handheld GPS unit, work is much more efficient.	Screen an additional 20%
3D Revised	Illicit Discharge Education	SUASCO & DPW	Include in flyers	Flyers given to new residents	Continue program
3E Revised	Education for Municipal Employees	DPW	Included in Measure 6	D.O.T. Training to all employees	Train new employees.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
4A Revised	Construction Site Runoff Bylaw	Conservation & DPW	Develop draft by-law	On-going	On-going
4B Revised	BMP's for Construction Site Erosion, Sediment	Conservation & DPW	Prepare draft to include in draft by-law	On-going	On-going
4C Revised	Construction Site Plan Review Procedures	DPW, Conservation, Planning, Board of Health	Prepare draft to include in draft by-law	On-going	On-going
4D Revised	Construction Site Inspection and Enforcement Procedures	DPW, Conservation, Planning, Board of Health	Prepare draft to include in draft by-law	On-going	On-going
4E Revised	Response to Public Hotline	DPW, Conservation, Planning, Board of Health	Advertise and test hotline	On-going	On-going

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
5A Revised	Post Construction Site Runoff Bylaw/Regulatory Mechanism	DPW, Planning, Conservation	Develop bylaw, involve and educate public municipal officials, developers, contractors	On-going	On-going
5B Revised	Choose Structural and Non Structural BMP's	DPW, Planning, Conservation	Prepare to draft, include in draft bylaw	On-going	On-going
5C Revised	Long Term BMP Operation and Maintenance Procedures	DPW	Prepare to draft, include in draft bylaw	On-going	On-going
5D Revised	Structural BMP Implementation Procedures	DPW	Prepare to draft, include in draft bylaw	On-going	On-going
Revised					
Revised					
Revised					

5a. Additions

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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
6A Revised	Employee Training to Prevent/Reduce Stormwater Pollution	DPW	Sample / Test Training	On-Going	Fully Implement Training
6B Revised	Maintenance/Inspection of Storm Sewers and Structural/Non-Structural Controls	DPW	Develop Draft New/Improved Activities, Schedules and Procedures	Completed	Finalize maintenance activities, schedules and long-term inspection procedures
6C Revised	Pollutant Source Reduction/Elimination from Municipal facilities & Activities	DPW	Develop Draft BMPs	Completed	Finalizing BMPs
6D Revised	Waste Disposal Procedures from Storm Sewers&Municipal Facilities/Activities	DPW	Develop Draft Procedures	Completed	Finalizing Procedures
Revised					
Revised					
Revised					

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Construction

Number of construction starts (>1-acre)	(#)	12
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	50%
Site inspections completed	(# or %)	150 +
Tickets/Stop work orders issued	(# or %)	5
Fines collected	(# and \$)	\$0
Complaints/concerns received from public	(#)	100'S

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	20 %
Site inspections completed	(# or %)	0
Estimated volume of stormwater recharged	(gpy)	n/a

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/YR
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2/YR
Total number of structures cleaned	(#)	+/- 2500
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	2000 TONS
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Landfill
Cost of screenings disposal	(\$)	30,000

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	3-4 /yr
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Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	3-4/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	2000 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost, landfill, Reuse
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	0
Vacuum street sweepers specified in contracts	(y/n)	1

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	50%
▪ Herbicides	(lbs. or %)	NA
▪ Pesticides	(lbs. or %)	90%

Anti-/De-Icing products and ratios	% NaCl	90
	% CaCl ₂	10
	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	
	% Sand	
	(y/n)	Y
Pre-wetting techniques utilized		
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	N
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	N