Municipality/Organization: Town of Stow, Highway Dept.

EPA NPDES Permit Number: MA041223

MaDEP Transmittal Number: W-21004712

Annual Report Number

& Reporting Period: No. 4: May 2006-April 2007

# NPDES PII Small MS4 General Permit Annual Report

#### Part I. General Information

Contact Person	: Michael Clayton	Title: Superintendent of Streets
Telephone #:	978-897-8071	Email: highway@stow-ma.gov

#### 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: (	Mean troop	
Printed Name:	William Wrigley	
Title:	Town Administrator	
Date:	April 26, 2007	

#### Part II. Self-Assessment

The Town of Stow has completed the required self-assessment for Year 4, and it has been determined that the Town is in compliance with the Permit, with the exception of the following variations from the Stormwater Management Program Summary that was issued as part of the Notice of Intent:

Section D-1. Public Education: The lesson plan for 5<sup>th</sup> graders that was part of our Year 2 program was submitted to the regional School Department, but out of necessity, the actual implementation of the plan needed to be at their discretion. It has recently been determined that the School Department intends to carry out the lesson plan this school year. The Year 3 materials from SuAsCo, which were expected to be a flyer to businesses, turned out to be the Media Campaign. The Media Campaign was scheduled for Year 4 in our program, which was appropriate, and it was utilized, so the Flyer to Businesses will be done at a later date.

Section D-2. Public Participation: The materials submitted to us by SuAsCo for Year 2 directly involved the regional school district, so as mentioned above, actual implementation was at their discretion. It has been determined that the School District intends to implement the poster contest this school year. The program for Year 3 called for a Photo Contest for the high school. No materials for this were received from SuAsCo, so this part of the program has not been carried out. Also, out Year 4 program called for a multitown stormwater summit. It was our expectation that this was to be conducted by SuAsCo. The Town does not have the resources to plan, schedule, and conduct a multi-town stormwater summit. The Town will attempt to comply with the Public Participation requirement in some other fashion.

Many of the other BMPs have been completed and the measurable goals attained well in advance of the timetable set forth in the program summary. These are noted in the "Progress" columns on the following pages.

## Part III. Summary of Minimum Control Measures

### 1. Public Education and Outreach

:MP 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
1-1 Revised	stormwater flyer to residents	SUASCO/BOS	flyer distributed to 75% of residents	done	
2-1 Revised	lesson plan for 5th grade	same	develop, distribute, taught	developed and distributed; teaching to be done at discretion of school dept.	
3-1 Revised	flyer to businesses	same	distribute to at least 50% of businesses		distribution of flyer
4-1 Revised	media campaign	same	info packet to media with press releases	Done Press releases issued and published	
5-1 Revised	stormwater video	same	show on public tv and at public meeting	Done PowerPoint presentation made into video and shown repeatedly on local TV	
Revised					

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## 2. Public Involvement and Participation

imp 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
1-2	traveling display	SUASCO/BOS	circulate for 3 months and display in 3 public places	displayed throughout yrs 1,2,3&4 @ Town Bldg lobby, Planning Dept., DPW, and Spring Festival	"Stormwater Matters" display scheduled for Spring Festival again this year, May '07
Revised			<b>P</b>	January Spring Positiva	uns year, way 07
2-2	poster contest for grade 5	same	poster contest held, receipts judged and displayed	Submitted to School Dept; activities to be at School Dept. discretion	Highway Dept. will follow up with Regional School Department.
Revised			uispiayou		
3-2	Photo contest for High School	same	Photo contest held, receipts judged and displayed	No materials were received from SuAsCo	Town will develop other method of public participation
Revised April 07					
4-2	Stormwater Summit Special	same	Advertise and hold multi-town Stormwater Summit		Town will develop other method of public participation
Revised April 07			Stormweet Samme		
5-2	Participate in Super Summit; assess public awareness	same	Self-test distributed to 75% of residents		Town will develop other method of public participation
Revised April 07					
Revised					

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## 3. Illicit Discharge Detection and Elimination

IMP 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
1-3	Provide written instructions to cb cleaning contractors	Highway Dept.	plan written and issued		repeat
Revised	8				
2-3	develop map of drainage system outfalls	same	map completed	done	
Revised					
3-3	bylaw making non- stormwater discharges & dumping illegal	Planning Board	bylaw presented to TM	done - existing bylaw found	
Revised					
4-3	outfall screening & plan for public reporting	Highway Dept. & Board of Health	publish where to report; & test outfall waters	Partial screening and testing performed	Repeat Publish where to report complaints
Revised April 07					
<b>5-</b> 3	Hold hazardous waste collection days	Board of Health	include in annual budget	done every year	repeat
Revised					
Revised					

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### 4. Construction Site Stormwater Runoff Control

BMP D#	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
1-4	bylaw covering runoff & waste on 1-5 acre construction sites	Planning Board and ConsCom	subcommittee established to review existing laws and regs	Done - Planning Board and Highway Engineer reviewing	
Revise d			3		
2-4 Revise	Ensure site plan reviews consider water quality	same	site plan review procedure in place	done	
3-4	develop means to consider reports received from public	same	written procedure in place	standard policy in place by both boards to refer reports to Town's consulting engineer	current policy to be put in writing
Revise d					
4-4	same as 1-4 above	same	subcommittee drafts bylaw	done	
Revise d			· ·		
5-5	same as 1-4 above	same	bylaw presented to TM for approval	done	
Revise d					
Revise d					

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# 5. Post-Construction Stormwater Management in New Development and Redevelopment

iMP D#	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
1-5	develop program to address runoff from new developments	Planning Bd and ConsCom	appoint committee	Done - Planning Bd and Highway Engineer reviewing	
Revise d					
2-5	same	same	preliminary report to joint boards	no need - bylaws and regs in place already require permit and conditions	
Revise d				on permits will prevent post- construction issues	
3-5	Develop BMP strategies appropriate to Stow	same	Stow-appropriate structural BMP list presented and distributed	Planning Board has adopted a list of preferred BMPs	Planning Board to ratify list after public hearing, so it can be distributed, but the list is already in use by them.
Revise d			w.bu.toutou		use by them.
4-5	regulatory changes to address runoff	same	proposed bylaw and rule changes proposed by committee	no need - current bylaws and rules cover this already	
Revise d					
5-5	long-term maint. of BMP's	BOS	town departments adopt plan	done - plan written and adopted by Highway Department	
Revise d					
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# 6. Pollution Prevention and Good Housekeeping in Municipal Operations

SMP D#	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
1-6	pollution prevention plan for maint operations	Highway Dept.	official adoption and posting and training	done	
Revise d					
2-6	develop inspection procedures of structural BMPs	same	plan written and implemented	done	
Revise d					
3-6	formalize pollution controls for streets, lots, and yards	same	plan written and implemented of annual catch basin cleaning	done	
Revise d					
4-6	year-round sweeping program	same	plan written and documentation	done	repeat
Revise d					
5-6	pollution prevention from ball field runoff	Recreation Commission	Include requirement in RFP to meet DEP standards	requirement written and submitted to Rec Com by Highway Dept.	Follow up
Revise d					
Revise					
d					


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

BMP D#	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
1-7 Revise	install structural BMP at outfalls to Lake Boon	Highway Dept.	survey and ID outfalls to Lake Boon	done	
2-7 Revise	same	same	propose schedule of funding for structural BMPs	done	
d 3-7 Revise	same	same	install at least 1/3 of required BMPs	done	
4-7 Revise	same	same	install at least 2/3 of required BMPs	done	
d 5-7	same	same	complete installation of all required BMPs		Determine if any more catch basins are needed, and if so, install
Revise d			Va uni roquiron Diffi		are needed, and it so, instan
Revise d					

### 7a. Additions

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### 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)	n
Annual program budget/expenditures	(\$)	

### **Education, Involvement, and Training**

Estimated number of residents reached by education program(s)	(# or %)	100% of homes
Stormwater management committee established	(y/n)	n
Stream teams established or supported	(# or y/n)	OAR support
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	у
Household Hazardous Waste Collection Days		
<ul><li>days sponsored</li></ul>	(#)	Once a year
<ul><li>community participation</li></ul>	(%)	1
<ul> <li>material collected</li> </ul>	(tons or gal)	
School curricula implemented	(y/n)	n

## Legal/Regulatory

	In Place Prior to Phase II	Under Review Drafte	ed Ac	lopted
Legulatory Mechanism Status (indicate with "X")				<u> </u>
<ul> <li>Illicit Discharge Detection &amp; Elimination</li> </ul>			<del></del>	X
■ Erosion & Sediment Control	X			
Post-Development Stormwater Management	X			
Accompanying Regulation Status (indicate with "X")		<u> </u>		
<ul> <li>Illicit Discharge Detection &amp; Elimination</li> </ul>	n & Sediment (	Control	Post-Deve	lopment
<ul> <li>Post-Development Stormwater Management</li> </ul>				•

### Mapping and Illicit Discharges

Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	19
System-Wide mapping complete	(%)	
Mapping method(s)		<u> </u>
<ul><li>Paper/Mylar</li></ul>	(%)	100
<ul><li>CADD</li></ul>	(%)	0
• GIS	(%)	0 .
Outfalls inspected/screened	(# or %)	70%
Illicit discharges identified	(#)	0
Illicit connections removed	(#)	0
	(est. gpd)	
% of population on sewer	(%)	0
% of population on septic systems	(%)	100

### Construction

Jumber of construction starts (>1-acre)	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	100

Tickets/Stop work orders issued	(# or %)	2
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	1

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100
onstruction stormwater control		
Site inspections completed	(# or %)	100
Estimated volume of stormwater recharged	(gpy)	Pre = post
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# **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
Total number of structures cleaned	(#)	600+
Storm drain cleaned	(LF or mi.)	0
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	500 cu yds
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		recycle
Cost of screenings disposal	(\$)	0

everage frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	As needed
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	As needed
Qty. of sand/debris collected by sweeping	(lbs. or tons)	700 cu yds
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	recycled
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	1
Vacuum street sweepers specified in contracts	(y/n)	n

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leduction in application on public land of: ("N/A" = never used; "100%" = eli	mination)	
<ul> <li>Fertilizers</li> </ul>	(lbs. or %)	
<ul> <li>Herbicides</li> </ul>	(lbs. or %)	
<ul> <li>Pesticides</li> </ul>	(lbs. or %)	
Anti-/De-Icing products and ratios	% NaCl	33
	% CaCl <sub>2</sub>	0
	% MgCl <sub>2</sub>	5
	% CMA	0
	% Kac % KCl	0
	% Sand	62
Pre-wetting techniques utilized	(y/n)	у
Manual control spreaders used	(y/n)	v
Automatic or Zero-velocity spreaders used	(y/n)	n
Estimated net reduction in typical year salt application	(lbs. or %)	n/a
Salt pile(s) covered in storage shed(s)	(y/n)	У
Storage shed(s) in design or under construction	(y/n)	New shed '06
		1