

Municipality/Organization: Town of Harwich

EPA NPDES Permit Number: MAR041120

MaDEP Transmittal Number: W-062631

Annual Report Number

& Reporting Period: No. 5: March 07-March 08

P
4/15/08

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Joseph J. Borgesi P.E.

Title: Town Engineer

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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: James R. Merriam

Printed Name: James R. Merriam

Title: Town Administrator

Date: 4/15/08

Part II. Self-Assessment

Our most important project for the coming period will be to complete the Consultant review of our existing MS4 compliance and implement any recommended changes.

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 – Permit Year 6
E1 Revised	Channel 18	Assist. Admin	Video Production	Information gathering ongoing interdepartment	Production and display of video
E2 Revised	Hand outs and Flyers	Various Dept.	Provided at Public Facilities	Handouts available at various facilities	Continued and additional hand outs available at various public facilities
E3 Revised	Posters	Various Departments	Posters displayed at all Town Facilities	Posters displayed at all Municipal facilities	Continue to display and update posters at Municipal Facilities
E4 Revised	Town Web Site	Assist planner	Post homeowners guide	Guide posted on website.	Review and update guide as needed
Revised					
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 – Permit Year 6
P1	Town Web Site	Assist. Admin	Provide Response	Plan being posted and explained for posting on web site	Posting on web site with response area
Revised					
P2	Public Hearings	Rules and Regulations various Depts.	Enact Rules and Regulations	Rules and Regulations for Subdivision and Site plan revised to include Stormwater Regulations	Enforce Rules and Regulations for compliance by applicants
Revised					
P3	Hazardous Waste Collection	DPW Director	Reduce Hazardous Waste	expand number of Hazardous waste collection days	Flyers and mailers sent and hazardous waste days increased
Revised					
P4	Oil, Antifreeze etc.	DPW director	Increase amount collected	Increase ease and availability of recycling facility	Facility open daily and antifreeze and oil filter recycling facility available
Revised					
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
D1	Locate discharge to water	Harbormaster	Reduce number of Discharges	Mapping of existing drainage system completed	Mapping of system completed and field verification begun
Revised					
D2	Locate discharge areas	Coastal Engineering, Consultant	Fly Over	Drainage information purchased from consultant	Field verification and of location of storm water structures and outfalls
Revised					
D3	Review of existing data and compliance with MS4 Requirements	Coastal Engineering Consultant	Update data	Contract enacted, Consultant began review	Complete contract, enact recommended changes
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
S1	Subdivision Control Rules and Regulations Amended	Planning Dept.	Adopted by Planning Board	Rules and Regulations amended	New Rules and Regulations implemented
Revised					
Revised					
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
C1	Subdivision Control Rules and Regulations amended	Planning Dept	Adopted by Planning Board	Rules and Regulations amended	New Rules and Regulations implemented
Revised					
C2	Site Plan Regulations amended	Planning Dept	Adopted by Planning Board	Regulations amended	New Rules and Regulations implemented
Revised					
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 5 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 6
G1	Street Sweeping	DPW Director	All Roads swept Annually	Street sweeping program reviewed and all roads included for sweeping. Additional sweeper purchased	All roads to be swept for 2008
Revised					
G2	Review Town Property for Drainage	DPW Director	Locate Problems and repair	Inspection of Town Facilities completed	Inspections completed, begin implementation of remediation
Revised					
Revised					
Revised					
Revised					
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 – Permit Year 6
M1	Continue Drainage installation	DPW Director	Improve entire System	85 new drainage systems installed throughout the Town and 16 existing systems were updated to Phase II standards	Continuation of Town Installation of Drainage systems throughout the Town
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

The community has been successful in establishing a Pond committee that has begun sampling 18 ponds in Harwich for various

chemicals to determine pollution loads .

Harwich is also a member of the Pleasant Bay Resource Management Alliance with Chatham and Orleans. The alliance has over 100 volunteers who collect water samples throughout the bay from June to September.

The Town appropriated \$500,000 for a comprehensive wastewater management planning study which will include additional storm water runoff sampling in Pleasant Bay, Allen, Wychmere and Saquatucket Harbors as well as the Herring River.

Part IV. Summary of Information Collected and Analyzed

The samples are analyzed for Nitrates and Phosphates as well as color and turbidity in order to establish a baseline for future testing.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	no
Annual program budget/expenditures	(\$)	0.00

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	80%
Stormwater management committee established	(y/n)	no
Stream teams established or supported	(# or y/n)	yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	yes
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	6
▪ community participation	(%)	100%
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	yes

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	(%)	50
Estimated or actual number of outfalls	(#)	6
System-Wide mapping complete	(%)	75
Mapping method(s)		
▪ Paper/Mylar	(%)	0
▪ CADD	(%)	0
▪ GIS	(%)	75
Outfalls inspected/screened	(# or %)	0
Illicit discharges identified	(#)	0
Illicit connections removed	(#) (est. gpd)	0
% of population on sewer	(%)	0
% of population on septic systems	(%)	100

Construction

Number of construction starts (>1-acre)	(#)	3
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	100%

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	2
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	2
Total number of structures cleaned	(#)	232
Storm drain cleaned	(LF or mi.)	200
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	200-+tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Recycle for sand and landfill cover
Cost of screenings disposal	(\$)	0.00

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)	6
Qty. of sand/debris collected by sweeping	(lbs. or tons)	200
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Closed landfill cover
Cost of sweepings disposal	(\$)	3000
Vacuum street sweepers purchased/leased	(#)	1
Vacuum street sweepers specified in contracts	(y/n)	no

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	0
▪ Herbicides	(lbs. or %)	N/A
▪ Pesticides	(lbs. or %)	N/A

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	10salt 90%
Pre-wetting techniques utilized	(y/n)	no
Manual control spreaders used	(y/n)	yes
Automatic or Zero-velocity spreaders used	(y/n)	yes
Estimated net reduction in typical year salt application	(lbs. or %)	15%
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	no
