Municipality/Organization: Swansea

EPA NPDES Permit Number: MAR041163

MaDEP Transmittal Number: W-

Annual Report Number & Reporting Period: **No. 3: March 05-March 06**

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: James A. Kern Title: Town Administrator

Telephone #: 508-678-2981 Email: jkern@town.swansea.ma.us

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: James A. Kern

Title: Town Administrator

Date: 06-13-06

Part II. Self-Assessment

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
1	Add stormwater information and links to the Town's website.	Conservation Agent/Planner	Post information by the end of year 5 provided the town has developed an official website.	Storm water information being developed in a form which will allow inclusion on web site. Web site creation is being pursued.	Continue to develop the information in a form which will allow the inclusion on the web site.
Revised					
2	Develop informational brochure on storm water program.	Conservation Agent/Planner	Provide and maintain copies at the Library by the end of Year 2 (pending funding availability).	Storm water information being developed in a form which can be included in a brochure.	Continue to develop the information in a form which will allow the inclusion in a brochure.
Revised					
3	Distribute informational brochure via bulk mail to Town Residents.	Conservation Agent/Planner	One mailing per year over the 5-year permit term (pending funding availability).	Storm water information being developed in a form which can be included in a brochure. No funding for distribution this year at this time.	Continue to develop the information in a form which will allow the inclusion in a brochure.
Revised					
4	Broadcast the public meetings described below under BMP ID#5 over the local cable access channel.	Board of Selectmen's Office	Three public meetings over the 5-year permit term.	Informational meeting regarding the stormwater program was held at the public Board of Selectmen's meeting of February 11, 2006. This meeting was taped and broadcast over the cable network for several weeks.	Continue to develop programs for presentation at public meetings.
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
5	Conduct public meetings to describe the Town's stormwater program and receive input from the public.	Board of Selectmen's Office.	Three public meetings over the 5 year permit term.	Informational meeting regarding the stormwater program was held at the public Board of Selectmen's meeting of February 11, 2006 . This meeting was taped and broadcast over the cable network for several weeks.	Continue to develop programs for presentation at public meetings.
Revised					
Revised					
Revised					
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 3 (Reliance on non-municipal partners indicated, if any).	Planned Activities – Permit Year 4
6	Map stormwater drainage system and outfalls	Highway Department	Map 20% of the system per year (pending funding availability)	At least 50% of the town's stormwater system has been mapped.	Continue program of mapping town's system if funds become available.
Revised					
7	Develop GIS database of the drainage system	Highway Dept	Map 20% of the system per year (pending funding availability)	At least 50% of the town's stormwater system has been mapped using GIS database program.	Continue mapping of town's stormwater system as funds become available for this purpose.
Revised					
8	Visually inspect outfalls for dry weather flows	Board of Health/ Highway Dept	Year 1 Inspect all outfalls.	All outfalls which have been mapped were inspected. Reports of any illicit discharges maintained. Property owners contacted to remove pipes.	Outfalls inspected yearly Continue program of monitoring pipes within available funding.
Revised					
9	Develop a sampling and analysis program for sampling outfalls.	Board of Health	Complete by end of year 1	BOH is still developing the sampling program. A program for a limited area has been established. The BOH has had funding limitations.	Continue to develop program and seek funding for the sampling.
Revised					
10	Conduct storm water sampling at suspected outfalls.	Board of Health	Years 1 through 2, Investigate Comptons Corner Area – Years 3 –4 Investigate other suspected illicit connections	Samples were taken and analyzed at Comptons Corner where there was a significant reduction in e-coli bacteria.	Board of Health to develop program for other suspected outfalls.
Revised					
11	Train Highway Dept. employees to recognize illicit connections	Highway Department	Conduct Annual training	Highway Department employees using visual and olfactory senses, report potential illicit connections which are jointly re-inspected by Highway Dept Director and Board of Health.	Highway Department employees using visual and olfactory senses, report potential illicit connections which are jointly re-inspected by Highway Dept and Board of Health.
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
12	Update Town bylaws and regulations to include storm water ordinances	Conservation Agent/Planner	Year 1 – Review existing by-laws Year 2 Propose changes Year 3 implement changes, subject to Town meeting approval	Reviewed existing by laws and proposed by-laws. Developing Stormwater by-law for town meeting approval.	Propose changes for town meeting approval.
Revised					
13	Develop an ordinance requiring developers to prepare an Erosion and Sedimentation Control Plan for all sites disturbing more than 1 acre. Require that the plan be reviewed and approved by the Planning Board	Conservation Agent/ Planner	Year 1 – Review existing by-laws Year 2 Propose changes Year 3 implement changes, subject to Town meeting approval	Reviewed existing by laws and proposed by-laws. Developing stormwater/erosion control by-law for town meeting approval.	Propose changes for town meeting approval.
Revised					
14	Periodically check erosion control measures and construction material management on-site inspection	Town Planner/Highway Department Conservation Commission		Conservation Commission implemented policy of stormwater control for all jurisdictional construction projects. Continues to seek enforcement action against violators. Highway Department inspects all erosion control affecting town roadways. Contracted engineer inspects within new subdivisions.	Conservation Commission will continue stormwater policy in Order of Conditions for jurisdictional projects. Highway Department inspects all erosion control affecting town roadways. Contracted engineer inspects within new subdivisions.
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
15	Develop an Ordinance requiring stormwater controls for all new and redevelopment projects disturbing more than 1 acre.	Conservation Agent/Town Planner.	Year 1Review existing by-laws & regulations Year 2 Propose changes Year 3 Implement changes subject to town meeting approval.	Reviewed existing by laws and proposed by-laws. Developing stormwater/erosion control by-law for town meeting approval.	Review proposed changes to regulations for presentation to Town Meeting.
Revised					
16	Inspect and maintain the storm water controls required under BMP ID #15.	Building Inspector, Town Planner, Highway Dept,, Home Owner Association Commercial Property Owners.	Inspect and maintain storm water controls annually (pending funding).	Inspected as many catch basins, detention ponds, and storm water controls as possible with town funds.	Continue to inspect additional catch basins, detention ponds and storm water controls as possible with town funds.
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 2 (Reliance on non-municipal partners indicated, if any).	Planned Activities – Permit Year 3
17	Street sweeping	Highway Department	Sweep streets annually	Conduct a program of sweeping the streets of the town at least 1 time per year.	Continue street sweeping program.
Revised					
18	Catch basin cleaning	Highway Department	Clean catch basins annually	Conduct a program of cleaning the catch basins of the streets of the town at least 1 time per year.	Continue a program of cleaning the catch basins of the streets of the town at least 1 time per year.
Revised					
19	Replace existing mechanical catch basin cleaner with new vacuum truck.	Highway Department	Purchase by end of Year 5 (pending finding availability)	Purchase by end of Year 5 (pending finding availability).	Purchase by end of Year 5 (pending finding availability).
Revised					
20	Yard waste Program.	Highway Department	Weekly curbside pickup except during winter months	Conduct weekly curbside pickup except during winter months.	Continue weekly curbside pickup except during winter months.
Revised					
21	Household Hazardous Waste program.	Solid Waste Committee	Hold twice over the 5-year permit term (pending funding availability)	Swansea Household Hazardous Waste Collection Day conducted on April 22, 2006 through Clean Harbors.	Plan to hold an additional Household Hazardous Waste day in next 3 years.
Revised					
22	Animal control program.	Animal Control Officer	Track the number of dead animals collected	Number of dead animals collected are tracked in daily logs.	Continue to track the number of dead animals collected on a daily basis.
Revised					
23	Implement and maintain the Highway Dept's Storm Water Pollution Prevention Plan (SWPPP).	Highway Dept	Maintain SWPPP at Highway garage	Program to Maintain the SWPPP in place.	Continue the program of SWPPP at Highway Garage

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	Not Applicable; TMDL have not been finalized for the receiving waters.				
Revised					
Revised					
Revised					
Revised					
Revised					
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)	
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	30%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y 2 miles
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	10%
▪ material collected	(tons or gal)	NA
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		X	
▪ Erosion & Sediment Control		X		
▪ Post-Development Stormwater Management	X			
Accompanying Regulation Status (indicate with "**X**")				
▪ Illicit Discharge Detection & Elimination	X		X	
▪ Erosion & Sediment Control		X		
▪ Post-Development Stormwater Management	X			

Mapping and Illicit Discharges

Outfall mapping complete	N	
Estimated or actual number of outfalls	NA	
System-Wide mapping complete	N	
Mapping method(s)		
▪ Paper/Mylar		
▪ CADD		
▪ GIS	X	
Outfalls inspected/screened	NA	
Illicit discharges identified	NA	
Illicit connections removed		
% of population on sewer	0	
% of population on septic systems	100	

Construction

Number of construction starts (>1-acre)	#	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	%	
Site inspections completed	#	
Tickets/Stop work orders issued	%)	
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)	1	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	1/2	
Total number of structures cleaned	1538	
Storm drain cleaned	240 ft	
Qty. of screenings/debris removed from storm sewer infrastructure	860 tons	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Recycle	
Cost of screenings disposal	0 (Barter)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	1	
Average frequency of street sweeping (commercial/arterial or other critical streets)	2	
Qty. of sand/debris collected by sweeping	960 tons	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Roadway base/shouldr	
Cost of sweepings disposal	0 (Barter)	
Vacuum street sweepers purchased/leased	0	
Vacuum street sweepers specified in contracts	0	

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

Anti-/De-Icing products and ratios	33% NaCl 0% $CaCl_2$ 0% $MgCl_2$ 0% CMA 0% Kac 0% KCl 67% Sand	
Pre-wetting techniques utilized	N	
Manual control spreaders used	Y	
Automatic or Zero-velocity spreaders used	N	
Estimated net reduction in typical year salt application	0%	
Salt pile(s) covered in storage shed(s)	Y	