

Municipality/Organization: Town of Merrimac

EPA NPDES Permit Number: MAR041209

MaDEP Transmittal Number: W-045823

Annual Report Number
& Reporting Period:

No. 2: March 04-March 05

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Carol A. Traynor

Title: Chairperson – Board of Selectmen

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Email: SelectMer@adelphia.net

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: Carol A Traynor

Printed Name: Carol A Traynor

Title: selectman

Date: 6 / 8 / 06

Part II. Self-Assessment

The Town of Merrimac has completed the required self-assessment and have determined that our municipality is in compliance with all permit conditions, except for the following provisions:

- A.) Lack of funding has hindered progress on the time line for implementing the six minimum control measures. More funding is anticipated to be available for permit years 4 (2006) and 5 (2007).**
- B.) Failed to submit annual report on or before May 1st, 2005. Submitted June 2006.**

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1A	Storm water education flyers	Board of Selectmen	Number of flyers dist. per year		
Revised					
1B	Household Haz. Waste Event	Board of Selectmen	Pounds of waste collected	Held a waste collection day	Hold a waste collection day
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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2A	Storm Drain Stenciling	Board of Selectmen	Number of drains stenciled		
Revised					
2B	Volunteer cleanup & monitoring	Board of Selectmen	# of volunteers & accomplishments		
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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3A Revised	Storm Drain System Map	Board of Selectmen	Identify & remove illicit discharges	In progress of researching Planning Board as-built records	Ongoing research for plans and maps depicting known outfalls in MS4 area.
3B Revised	Ordinance prohibiting illicit discharges	Board of Selectmen	Adoption of ordinance	None	None
3C Revised	Plan to detect illicit discharges	Board of Selectmen	# of illicit discharges identified	None	None

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
4A	Ordinance for erosion & sediment control at construction sites	Board of Selectmen	Adoption of ordinance	Research and initial draft of “Stormwater Management and Land Disturbance Bylaw” by Cammett Engineering. -Adopted Site Plan Review Bylaw -Adopted Lake Attitash Water Supply Protection District -Adopted Rural Agricultural Preservation Overlay District -Updated Floodplain District -Updated Water Resource and Protection District -Adopted Open Space Residential Development.	Develop draft “Stormwater Management and Land Disturbance Bylaw”
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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
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 if within DEP jurisdiction	Review Site Plan Review Bylaw to incorporate Stormwater Management Policy
Revised				-Adopted Site Plan Review Bylaw -Adopted Lake Attitash Water Supply Protection District -Adopted Rural Agricultural Preservation Overlay District -Updated Floodplain District -Updated Water Resource and Protection District -Adopted Open Space Residential Development.	

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
6A	Develop municipal O&M plan	Highway Superintendent	# of structures/streets cleaned, amount of employee training	Ongoing structure and street cleaning	Maintain O&M
Revised					
6B	Upgrade inadequate drainage systems	Highway Superintendent	Number of upgrades per year	Upgrade near Lake Attitash	Continue upgrades
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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
N/A					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Planning Board's consulting engineer provided review and inspection of erosion & sediment control and post-development stormwater management for a residential subdivision off Bear Hill Road.

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 %)	
Stormwater management committee established	(y/n)	
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	(#)	1
▪ 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				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	20
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ 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	(%)	100
Site inspections completed	(# or %)	*100%
Tickets/Stop work orders issued	(# or %)	
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	
*All subdivisions are inspected by the Planning Board's consulting engineer and active Order of Conditions by the Conservation Commission Agent		

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	80
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)	1
Total number of structures cleaned	(#)	400±
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	50 CY
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
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)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	20 CY
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Broom street sweepers purchased/leased	(#)	1
Vacuum street sweepers specified in contracts	(y/n)	

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

Anti-/De-Icing products and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	80% 20%
Pre-wetting techniques utilized	(y/n)	No
Manual control spreaders used	(y/n)	Yes
Automatic or Zero-velocity spreaders used	(y/n)	No
Estimated net reduction in typical year salt application	(lbs. or %)	1000 Ton
Salt pile(s) covered in storage shed(s)	(y/n)	Yes

Storage shed(s) in design or under construction	(y/n)	No