Municipality/Organization: Town of Raynham, MA

EPA NPDES Permit Number: MAR 041151

MassDEP Transmittal Number: W-

Annual Report Number & Reporting Period: April 1, 2006 – March 31, 2007

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2007)

Part I. General Information

Contact Person: Randall Buckner Title: Town Administrator

Telephone #: 508.824.2707 Email: rbuckner@town.raynham.ma.us

Mailing Address: 558 South Main Street, Raynham, MA

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: Randall A. Buckner

Title: Town Administrator

Date: 8/15/07

Part II. Self-Assessment

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

Part I. Report is being filed late

Part III. 2.2 Presentation to Town Meeting of Illicit Discharge Detection & Elimination By-law delayed.

STORMWATER REPORT

Part III Summary of Minimum Control Measures

1. Public Education and Outreach

BMP	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) Permit Year 4	Planned Activities Year 5
1.1	Introduce topic to students as appropriate	Public Education task force	Classroom presentations	Presentations made	Make further presentation to students
1.2	Design & Distribute Brochures	Town Administrator	Raise public awareness pollution of stormwater	Completed in year 2	No action required
1.3	Stencil storm drains	Highway Department/ Highway Superintent	Identify MS4 for public	100% of Storm. drains stencilled	No action required
1.4	Create Public Public Education Task Force	Raynham Board of Selectmen/Town Administrator	Board of Selectmen appoints Task Force	Done	No action required
1.5.	Create awareness with education incentives	North & Center Water District/Reprective Supt.	Create scholarship fund	Scholarship setup some donations received Criteria for Scholarship done	Award Scholarship

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) Permit Year 4	Planned Activities Permit year 5
2.1	Form Technical	Town Administrator/ Board of Selectmen	Board of Selectmen vote to form committee	---	No action required
2.2	Tech.Comm. drafts by-law	Technical Committee	Illicit Discharge and E & S bylaws presented to Town	Illicit discharge by law drafted	Present to Town Meeting
2.3	Use media to educate and motivate residents to comply	Technical Committee employees of town agencies	Positive press coverage of storm water meeting activities	Public and press invited to Stormwater Committee Meetings held Press release issued	Continue
2.4	Solicit residents to report illicit discharges	Task Force	Residents report	One incident report	Continue
2.5	Provide public notice of all Meeting & Hearings	Technical Committee	Public attends meetings/hearings	All meeting of the technical committee and task force advertised in local paper & website	Continue

2A Additions

2.6	HHW Collection Event	Hiway Supt	Hold one Town-wide event	Town-wide event held in May	Townwide collection of HHW to be held in May (each year)

3. **Illicit Discharge Detection and Elimination**

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) Permit Year 4	Planned Activities Permit Year 5
3.1	Map MS4 Outfalls	Highway & Planning Dept/Highway Supt. & Town Planner	Produce Maps of MS4	Partial map of MS 4 outfalls produced	Finalize GIS mapping of all MS4 outfalls
3.2	Dry weather screening during routine catch basin cleaning	Highway Dept. Superintendent	Monitor MS4	Highway Dept. checked catch basin for dry weather flows (none found)	Continue checking
3.3	Inspections during routine detention/ retention basin assessment	Highway Supt.	Monitor MS4	Highway Dept. Inspected detention basins for dry weather flows (none found)	Continue Checking
3.4	Illicit Discharge By Law enforcement.	Highway Supt.	Violations caught or discouraged	No Action	No action until By-Law is passed
3.5	Prvd.Insp. & tech. assist. to & ZBA Boards	Highway & Planning Board Dept/Hiway & P.B	Develop & enforce Management practices		Continue

4. Construction Site Stormwater Runoff Control

BMP IC#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal (s) Permit Year 4	ProgressActivities- Permit Year 5
4.1	Devlp.by-law for construction along accepted ways	BOS & Hiway Dept. Town Adm& Hiway Supt.	Required permit & cash bond before excav. along town ways	Done	No action require
4.2	Conduct subdivision review & inspections	Hiway & Planning Dept/Hiway Supt. & Planning Board	Enforce const. of aprv.plans through subdivision cont.	Four subdivisions reviewed for compliance	All subdivision plans to be reviewed for compliance
4.3	Develp.P.B.& ZBA to address MS4 issues	Highway & Planning Dept./Hiway & P.B. Agents	Provide regulations addressing MS4 issues	Done	No Action required
4.4	Enforce by-laws & PB reg.	Highway & Planning Hiway Supt & P.B Regs	Encourage proper management of of MS4 issues	Done	Continue
4.5	Conduct routine & impromptu inspections during const.	Highway Dept / Highway Supt. or designated agent	Discourage MS4 violations & encourage best Mgt. Practices	Highway emloyees conducted scheduled & unscheduled inspec. of all construction sites	Continue

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

BMP ID#	BMP Description	Responsible Dept/Person	Measurable Goals	Progress on Goal (s) Permit Year 4	Planned Activities Permit Year 5
5.1	Monitor,review & assess compliance with MS4 regs.	Hiway & Planning Board Depts/Hiway Supt & P.B. agents	Use bond surety to insure compliance with regulations	Fees for maintenance of MS4 in new developments collected	Same
5.2	Periodic assessment of BMP's for MS4	Hiway & Planning Board Depts/Hiway Supt. & P.B.agent	Ongoing evaluation of what is working and what is not	Stormwater Technical Committee assessed BMP's being used	Continue Assessment
5.3	Provide tech support & BMP's to aprop. Boards & agencies	Hiway, P.B & Tech. Cmt/Hiway Supt. P.B.agents & Cmt member.	Ongoing assessment & use of improved BMP	BMP's working well incorporated into regulations	Continue
5.4	Required review & comment B/4 bond reduction (or) return	Planning & Appeals Board Chairman each Board	Ensure compliance of BMP's of developing projects	Town Engineer/. Cons.Agent did final inspection of all subdivisions	Continue

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept/Person	Measurable Goals	Progress on Goal(s) Permit Year 4	Planned Activities Permit Year 5
6.1	Regular cleaning & inspections of catch basin	Hiway Dept./ Hiway Supt responsible Dept./Person Name	Regular assessment structure & removal of road soils	All catchbasins in Town cleaned & inspected	Same
6.2	Regular Street sweeping	Hiway Dept/ Hiway Supt.	Regular & periodic removal of road soils	All streets in Town swept at least once,some twice	Same
6.3	Installation of deep sump basins	Hiway Dept/ Hiway Supt.	Collection of additional road soils from MS 4 systems	Hiway Dept. installed deep sumps during reconstructions on Rt.104	Continue for any reconstruction
6.4	Provide employee regds.train.hazs. mat. clean up & disposal	Hiway Dept/ Hiway Supt.	Employees are trained in Hazmat	Employee maintained Hazmat certification (8 hours)	Continue
6.5	Provide work orders system	Hiway Dept/ Hiway Supt & General Foreman	Provide records of mat. Removed & work pref.on MS4	Work order system system functioning	Continue

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) *<<if applicable>>* N/A

BMP 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
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

So far, no illicit conncetions into the Town's MS4 have been found. The Town is better thatn 70% sewered so many problems with grey water/waste water have been eliminated. One incident of motor oil being dumped into MS4 was discovered and abated.

100% of catch basins have been stenciled.

Erosion control is being enforced for all new construction.

Post-construction Management of Stormwater has been improved be steady maintenance of all detention/retention basins by Highway Department paid for by fund established in 1988. Developers pay a per lot fee to maintain all MS4 structures in new subdivisions.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2006 through March 31, 2007)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	($)	$20,000
Total program expenditures since beginning of permit coverage	($)	-
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Special Revenue Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	95%
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	3 mi.
Shoreline cleaned since beginning of permit coverage	(mi.)	5 mi.
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	240
▪ material collected **	(tons or gal)	-
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	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					
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management	X				

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	60%
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	40%
Mapping method(s)		
▪ Paper/Mylar	(%)	

▪ CADD	(%)	
▪ GIS	(%)	100
Outfalls inspected/screened **	(# or %)	25
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	70%
% of population on septic systems	(%)	30%

Construction

	(Preferred Units)	Response
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 %)	1
Fines collected **	(# and $)	0
Complaints/concerns received from public **	(#)	1

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1/year
Qty of structures cleaned **	(#)	1464
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or per basin contract rate **	($/hr or $ per basin)	
• Disposal cost**	($)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vactor **	(%)	

	(Preferred Units)	Response
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)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	($)	
• Hourly or lane mile contract rate **	($/hr. or ln mi.)	
• Disposal cost**	($)	

Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	100%
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	

Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	