

6/3/11

P

Municipality/Organization: Town of West Bridgewater

EPA NPDES Permit Number: MAR041172

MassDEP Transmittal Number: W-041193

Annual Report Number

& Reporting Period: No. 8 April 1, 2010 – March 31, 2011

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2010)**

Part I. General Information

Contact Person: Leonard Graf

Title: Highway and Vehicle Maint. Supt.

Telephone #: 1-508-894-1216

Email: LGraf@WBridgewater.com

Mailing Address: Highway Department, 65 North Main Street, West Bridgewater, MA 02379

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:

Elizabeth D. Faricy. 

Printed Name: Elizabeth D. Faricy

Title: Administrator

Date: June 2, 2011

Part II. Self-Assessment

The Town of West Bridgewater has completed the required self-assessment and has determined that our municipality's efforts to implement some of the BMPs required in the permit have faltered due to a change in staff. Effective February 1, 2010, the Town appointed Leonard Graf to fill the position. Currently he is in the process of identifying all issues regarding the running of the department, including oversight of the NPDES permit.

In addition, the CWRMP committee has begun the process of reviewing the activities covered by the permit, to determine which are appropriate to be coordinated directly by the committee, vs. the ones that should be coordinated and/or implemented by paid Town staff such as the highway department. In the future, meetings will be held with the respective Town departments and officials to develop clear lines of responsibility and to expedite execution of the tasks. Items that are anticipated to fall under the CWRMP include stenciling of drains, forming a public education force, and other activities that can be reasonably expected to be performed by volunteers or in conjunction with the schools.

The provisions of the permit which the Town is currently not in compliance with are the following:

BMP #4 - Educate Students

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
1. Revised	Enlist residents as S/W Educators	S/W Mgr.	Form Public Education force	The CWRMP committee has been retasked to review Storm Water Management strategies.	Consider increasing the size of the committee with storm water management qualified individuals.
2. Revised	Design and Distribute brochures	S/W Mgr.	Raise public awareness	Consider additional public notices through newspaper articles	Continue putting out the word through the press
3. Revised	Stencil storm drains	Highway Department	Identify all MSW4's	CWRMP Committee started discussing options to proceed with this BMP	Obtain stencils and secure services of volunteer groups to begin stenciling.
4. Revised	Educate students	Task Force and Teachers	Introduce in Classrooms	CWRMP Committee started discussing options to proceed with this BMP	Look into suitable materials to use for education of students.
Revised					
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
5. Revised	Form Technical Committee T/C	S/W Mgr.	Committee Provides technical assistance	Re staff committee to focus on storm water management	Focus committee's attention on preparing for the requirements of the new NPDES permit while implementing the remainder of the parts of the current NPDES permit.. On going.
6. Revised	T/C Reviews general permit	T/C	Goals identified	On going NPDES permit review for compliance	
7. Revised	T/C drafts By-Laws	T/C	Town Meeting adopts by-laws	Completed	Committee to begin to meet with Conservation Commission, ZBA, Planning Board, Building Inspector to seek input for changes needed for Town Meeting adopted by-laws relating to enforcement of storm water management BMPs. (Ongoing.
8. Revised	Residents assist with by-law enforcement	S/W Mgr.	Residents report violations	Residents report violations to Board of Health and Conservation Commission Agents and/or Highway Supt. Supt. works with Town agents to investigates and take action to stop the violation	
Revised					
Revised					

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
9. Revised	Map outfalls and MS4	Highway Supt.	Map of MS4	Looked into integrating efforts into Water Department's mapping program	Continue to work with integrating into Water Department's mapping program. Seek funding in FY 12 budget for programming software to work with Water department files
10. Revised	Train staff in outfall inspection	Highway Supt	Develop detection program	Detection instruction given to new hires.	Ongoing instruction and updates to all department employees
11. Revised	Technical Committee drafts illicit discharge bylaw	Highway Supt	Town adopts bylaw	Completed	Completed
12. Revised	Enforcement of bylaw	Highway Supt and Board of Selectmen	Discourage violations	Ongoing program every day. Complaints brought to ConCom, Board of Health, Building Inspector and Highway Department.	Continue
Revised					
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
13. Revised	Joint selection of erosion BMPs to be required for construction	Tech. Comm.	Con-Com. Assist w/drafting Erosion & Sediment Control By-Law	Work with ConCom By-Laws and Rules and Regulations which address erosion and sediment control to learn procedures to follow.	Ongoing.
14. Revised	Pl. Bd. Includes E&S BMPs in subdivision review	Technical Committee, Planning Bd.	BMPs required	Work with Planning Board and Conservation Commission to make sure BMPs are required	Look at updating BMP's as technology changes.
15. Revised	ZBA includes E&S BMPs in site plan review	Tech.Comm., ZBA	BMPs required	Completed.	Completed.
Revised					
Revised					
Revised					
Revised					

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
16. Revised	PIBd Meets with Tech. Comm to review goals of S/W plans	Pl.Bd., Tech Comm.	Identify changes in regs needed to comply	Reviewed all BMPs with Planning Board Chairman to incorporate into SPR process and on-going procedures to use during Site Plan Review process	Ongoing.
17. Revised	Propose regulation changes as appropriate	Pl.Bd., Tech Comm, ZBA	Amend existing regulations	Completed .	Completed
18. Revised	Require BMPs in review process	Pl. Bd., ZBA	Land use boards require S/W management plans	Completed	Completed.
19. Revised	Require deed restrictions	Pl.Bd/. ZBA, Town Counsel, S/W Mgr.	Town can ensure long term maintenance	Evaluate progress with Town regulatory Boards.	Continue to evaluate and monitor progress of Boards on projects where deed restrictions may be appropriate.
Revised					
Revised					

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 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
20. Revised	Clean Catch basins regularly	Highway Dept.	Prevent debris from entering MS4	In progress.	Continue program and evaluate its efficiency.
21. Revised	Sweep streets regularly	Highway Dept.	Prevent sand & debris from entering MS4	In progress.	Continue program.
22. Revised	Use E&S controls for road repairs	Highway Department	Prevent erosion into MS4	Filed a Notice of Intent process with the Conservation Commission for all road repairs and received an Order of Conditions to proceed	Utilize the Order of Conditions issued by the Conservation Commission for all road repairs.
23. Revised	Cover outside drains	Highway Dept.	Prevent leachate	Completed.	Develop modifications to covers to facilitate maintenance.
Revised					
Revised					

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 9
24. Revised	Does MS4 discharge into impaired water body?	Highway Supt.	Show outfalls of MS4 into impaired water bodies	No progress.	Restart program by coordinating it with the mapping program in the Water Department.
25. Revised	Identify whether pollutants are discharging into MS4	Highway Supt.	Identify source of pollutants	Respond to reported instances of suspected pollutant discharge when they arise.	Continue program
26. Revised	Ensure WLA met by S/W BMPs	Highway Supt.	Determine if add'l S/W BMPs needed	Work with peer engineering review with Planning Board and Zoning Board of Appeals for each new Site Plan Review. Not many this year due to economy.	Continue program
27. Revised	Eliminate pollutant discharges coming through MS4	Highway Supt.	Enforce illicit discharge by-law	Highway Supt works with Conservation Commission and Board of Health agents for investigation and enforcement.	Ongoing.
Revised					
Revised					

7a. Additions

--	--	--	--	--	--

--	--	--	--	--	--

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town has not performed any specific sampling or data collection related to the outfalls or receiving waters. No information is available.

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, 2010 through March 31, 2011)

Programmatic

Stormwater management position created/staffed	(Preferred Units)		Response
	(y/n)		Yes – Highway Supt.
Annual program budget/expenditures could estimate a percent of annual DPW Budget		(\$)	Not estimated
Total program expenditures since beginning of permit coverage		(\$)	Not estimated
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)			General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)		(# or %)	2,300 households
Stormwater management committee established		(y/n)	Yes
Stream teams established or supported		(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned **		(y/n, or mi.)	No
Shoreline cleaned since beginning of permit coverage		(mi.)	N/A
Household Hazardous Waste Collection Days			
■ days sponsored **		(#)	1

- community participation ** - material collected **			2000
		(# or %) (tons or gal.)	220 gals- Paints. 30 car batteries; 19 propane bots.; 60 tires; 121 TVs; 31 A/C units; 18 Refrigerators; 111 lbs alkaline batteries; 62 lbs NiCad batteries 55 gals anti- freeze.
School curricula implemented		(y/n)	No -ongoing planning

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 - Erosion & Sediment Control - Post-Development Stormwater Management					X X X
Accompanying Regulation Status (indicate with "X")					
- Illicit Discharge Detection & Elimination - Erosion & Sediment Control - Post-Development Stormwater Management					X X X

Mapping and Illicit Discharges

(Preferred Units) Response

Outfall mapping complete	(%)	85%
Estimated or actual number of outfalls	(#)	24
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	80%
Mapping method(s)		
▪ Paper/Mylar	(%)	60-70%
▪ CADD	(%)	0
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	0
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	5
Illicit connections removed **	(#) and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#) and (est. gpd)	5
% of population on sewer	(%)	4%
% of population on septic systems	(%)	96%

Construction

	(Preferred Units) Response	
Number of construction starts (>1-acre) **	(#)	0
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 (for proper BMP installation & operation) completed **	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Yes - 2
Low-impact development (LID) practices permitted and encouraged	(y/n)	Yes

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1 time/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1 time/year
Qty of structures cleaned **	(#)	100
Qty. of storm drain cleaned **	(%, LF or mi.)	100 feet
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	2.5 T/est.
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	All being hauled away by contractor.

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$4, 000
• Hourly or per basin contract rate **	(\$/hr or \$/basin)	Per contract
• Disposal cost**	(\$)	Contract
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	No
• Vacuum truck(s) owned/leased	(#)	No
• Vacuum trucks specified in contracts	(y/n)	No
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vactor **	(%)	0 %

(Preferred Units) Response		
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	2 -3 times/yr
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2-3 times/yr
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	20 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		

• Annual budget/expenditure (labor & equipment)**	(\$)	\$7,000
• Hourly or lane mile contract rate **	(\$/hr or ln mi.)	NA
• Disposal cost**	(\$)	\$3,500
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1 owned
• Vacuum street sweepers owned/leased	(#)	No
• Vacuum street sweepers specified in contracts	(y/n)	NA
• % Roads swept with rotary brush sweepers **	(%)	100%
• % Roads swept with vacuum sweepers **	(%)	0%

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	2% increase since beginning of permit.
▪ Herbicides	(lbs. or %)	100% elimination
▪ Pesticides	(lbs or %)	Uses 10 18oz. cans of Hornet & Wasp Spray each year.
Integrated Pest Management (IPM) Practices Implemented – Program in place for Schools and Town	(y/n)	Yes

(Preferred Units) Response

Average Ratio of Anti-/De-Icing products used **		% NaCl	90%
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		% CaCl ₂	10%
		% MgCl ₂	
		% CMA	
		% Kac	
		% KCl	
		% Sand	
Pre-wetting techniques utilized **		(y/n or %)	Yes
Manual control spreaders used **		(y/n or %)	Yes
Zero-velocity spreaders used **		(y/n or %)	No
Estimated net reduction or increase in typical year salt/chemical application rate		(lbs/ln mi. or %)	None
Estimated net reduction or increase in typical year sand application rate **		(lbs./ln mi. or %)	None used
% of salt/chemical pile(s) covered in storage shed(s)		(%)	100 %
Storage shed(s) in design or under construction		(y/n or #)	Already built
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008		(y/n)	Yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	(# or y/n)	None
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	(# or y/n)	None
• Treatment units induce infiltration within 500-feet of a wellhead protection area	(# or y/n)	None Known