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Municipality/Organization: Town of East Bridgewater, MA

EPA NPDES Permit Number: MAR041109

MaDEP Transmittal Number: W-041043

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

05/02/06

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John Haines **Title:** Department of Public Works

Telephone #: 508 378-1620 **Email:** JHaines@ebmass.com

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: George G. Samia

Title: Town Administrator

Date: April 26, 2006

Part II. Self-Assessment

The Town of East Bridgewater has successfully implemented or begun implementation of several Measurable Goals noted in East Bridgewater's Notice of Intent. Prior to the development of East Bridgewater's Comprehensive Stormwater Management Program, including Measurable Goals, the Town had an assessment performed of current activities, programs and regulations that could support the NPDES Phase II Stormwater Program. This assessment became the basis for modifying current activities, recommending new programs, and informing Town boards and departments of their obligation toward successful implementation of East Bridgewater's Comprehensive Stormwater Program.

East Bridgewater is pleased to present the following summary describing the town's success at implementing the third year of the Town's Comprehensive Stormwater Program.

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	Create a Stormwater Program	DPW, Planning Board, Con Comm., BOH, Selectmen	E. Bridgewater will present the draft Comprehensive Stormwater Management Program at a public meeting		
Revised					
2	Create a Stormwater Program	DPW	Identify appropriate sources of funding assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes and Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of E. Bridgewater’s Comprehensive Stormwater Management Program, including public education and outreach.		
Revised					
3	Address specific groups	DPW	Distribute EPA and other relevant educational brochures to targeted audiences. Distribution points include Town hall, Library, and Transfer Station		
Revised					

4	Target groups likely to impact stormwater	DPW	Brochures targeting specific audiences and activities will be available. These target groups include homeowner and lawn maintenance activities, disposal of household waste, and pet maintenance.		
Revised					
5	Identify alternative information sources	DPW, MIS Dept.	Post links to stormwater BMPs and other water quality education resources, including EPA and DEP on its website. www.eastbridgewaterma.org		
Revised					
6	Identify alternative information sources	DPW MIS Dept.	Post links on Town website to the Taunton River Watershed Council http://www.tauntonriver.org/		
Revised					
7	Utilize local public access channel	DPW	Public meeting notice and the meeting reviewing E. Bridgewater's Comprehensive Stormwater Management Program will be posted on East Bridgewater's local access channel.		
Revised					
8	Utilize local public access channel	DPW TRW Liaison	The Town of East Bridgewater will appoint a liaison to the Taunton River Watershed Council to disseminate information to the Town on TRW programs and activities.		
Revised					

9	Utilize local public access channel	DPW Board of Health	The Town of East Bridgewater will work with the Town's contracted waste hauler and the Board of Health to continue to sponsor Regional Hazardous Waste Collection Days.		
Revised					

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
10	Storm drain stenciling	DPW	East Bridgewater will work with local Scout groups to develop a stenciling program. Stenciling will target East Bridgewater's subwatersheds.		
Revised					
11	Community cleanups	DPW East Bridgewater Conservation Commission	Town of East Bridgewater will encourage local stream team cleanups. The Town will provide notice of the event on its local access channel and website.		
Revised					
12	Community clean-ups	DPW	Town will provide trucks and other material to support cleanup efforts and disposal of materials.		
Revised					

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
13	Inventory and mapping of storm drain system	DPW	East Bridgewater will identify appropriate sources of funding (assistance (SRF, 319 Grant Program, 604(b) Grant Program, Lakes & Ponds Grant Program, Source Water Protection Grant Program, Recycling Grant Program) and apply for assistance in implementing portions of East Bridgewater’s Comprehensive Stormwater management program, including public education and outreach.		
Revised					
14	Mapping and identification of outfalls and receiving water	DPW Board of Assessors	East Bridgewater will develop and implement a plan to map all outfalls and receiving bodies of water, contingent on Town Meeting approval of funding.		
Revised					

3. Illicit Discharge Detection and Elimination (cont'd)

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
18	Initiation of recycling programs	DPW Board of Health	East Bridgewater will apply for funding assistance from DEP's Recycling Grant Program for assistance in public education and the purchase of recycling materials.		

19	Watershed assessments and studies	DPW Conservation Commission Board of Health	<p>East Bridgewater will identify opportunities for funding assistance from DEP's 604(b) and 319 grant programs and the Department of Environmental management's Lakes and Ponds Grant Program to support watershed assessment and implementation activities. Tasks can include design and installation of stormwater BMP's and public outreach including storm drain stenciling. Emphasis will be on assessments and remediation of stormwater related problems impacting water quality in Plymouth Street Pond, Matfield River from the confluence of Beaver Brook and Salisbury Plain River, Salisbury Plan River from Brockton WWTP to confluence with Matfield River. These waterbodies have been identified as impaired an on DEP's 303d list.</p>		
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20	Watershed assessments and studies	DPW Water Department	The Town of East Bridgewater will encourage the East Bridgewater Water Department to apply for funding assistance from DEP's Source Water Protection Program for grant assistance to develop wellhead protection plans and stormwater management plans within Zones II.		

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
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning Board Conservation Commission Town Counsel Board of Health Zoning Board of Appeals	East Bridgewater will review model by-law developed by DEP in consultation with the Attorney General's Office.	Finalized consolidated regulations and investigate areas for revisions	Revisit consolidated regulations and investigate areas for revisions
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
7	Regulatory Review	DPW, Planning Board, BOH, Con. Comm.	Regulatory Revisions to Bylaws as Necessary	Revisit consolidated regulations and investigate areas for revisions	Revisit consolidated regulations and investigate areas for revisions
Revised					
8	Permit Enforcement	DPW, Planning Board, BOH, Con. Comm.	Local Construction Site Oversight and Enforcement	Ongoing to comply with local bylaws, state and federal requirements	Increase surveillance of post-construction activities, develop procedure for enforcing homeowner associations responsibly for stormwater structure maintenance
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
11 Revised	Improved Street Sweepings	DPW	Semi-annual Collections	Semi-annual sweeping	Semi-annual sweeping town-wide, one week every three weeks in critical areas
12 Revised	Improved Catch Basin Cleanings	DPW	Semi-annual Collections	Annual Collections	Annual Collections
13 Revised	Household Hazardous Waste Days	DPW	Annual Collections	Semi-annual Collection	Semi-annual Collection
14 Revised	Drain Stenciling	DPW	Aquifer Protection Area	Began stenciling of catchbasins in critical areas	Continue drain stenciling
Revised					
Revised					

6a. Additions

18	Employee Training	DPW	Seminar Attendance		

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
6	GIS Mapping	DPW	GIS Mapping of Priority Waters and Drainage Patterns	Continued development of GIS mapping	Continued development of GIS mapping
Revised					
4	Water Quality Testing	DPW	Semi-Annual Water Quality Testing	Funded wastewater land use study for the South end of Town	Wastewater land use study for the South end of Town
Revised					
15	Stormwater Modeling	DPW	Needs Assessment for Category 5 Water Bodies	Continued development of GIS mapping	Continued development of GIS mapping
Revised					
16	Misc. Structural BMPs as Needed	DPW	i.e. Construction Improvements	None to date (scheduled for Permit Years Four and Five as needed)	To be determined
Revised					
17	Misc. Non-Structural BMPs as Needed	DPW	i.e. Bylaw Enforcement, Fees and Fines	None to date (scheduled for Permit Years Four and Five as needed)	To be determined
Revised					
Revised					

7a. Additions

7b. WLA Assessment

To date, the Town has focused on completing GIS mapping of the drainage system and receiving waters, as approved by the DEP, and water quality screening and testing from the outfall locations that have been mapped in the vicinity of the North River watershed area. The data findings confirm past conclusions that the North River and its tributaries (i.e. the Indian Head River) are impaired from excessive levels of Total Coliform and e-coli.

A more detailed WLA assessment and Land Use Evaluation will follow.

Part IV. Summary of Information Collected and Analyzed

Permit Year 1 Activities and Information

During the previous Permit Year, the Town reviewed the local, state and federal bylaws relative to stormwater and aquifer protection, and determined that they appeared to be adequately regulated and in conformance with the Massachusetts Stormwater Management Policy. Minor revisions may be required for informing local project proponents of the Phase II one-acre NPDES requirement.

Permit Year 2 Activities and Information

During Permit Year 2, outfall mapping and water quality screening/testing continued in the North River drainage basin. Assessor mapping was performed to determine the public/private impacts to its storm drainage system.

The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town has taken part in employee training seminars sponsored by the Plymouth County Highway Association and will continue to improve its good housekeeping programs.

Permit Year 3 Activities and Information

During Permit Year 3, the Town allocated funding for a lot-by-lot analysis in critical areas. The Town will continue to provide updates to the public through water bill mailings and postings on the local WEB site, and will continue to work with local watershed associations on possible funding sources and ways in which to promote volunteerism.

The Town has taken part in employee training seminars sponsored by the Plymouth County Highway Association and will continue to improve its good housekeeping programs.

Part V. Program Outputs & Accomplishments (OPTIONAL)

TO BE COMPLETED IN LATER YEARS OF THE PERMIT PROGRAM

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 %)	100
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	Y
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	2
▪ community participation	(%)	Varies
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Y

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				
▪ Post-Development Stormwater Management				

Mapping and Illicit Discharges

Outfall mapping complete	(%)	98
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	75
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% 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	(# or %)	
Tickets/Stop work orders issued	(# or %)	
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)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	2800
Storm drain cleaned	(LF or mi.)	NA
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Compost
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
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Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Compost
Cost of sweepings disposal	(\$)	0
Vacuum street sweepers purchased/leased	(#)	2
Vacuum street sweepers specified in contracts	(y/n)	NA

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		50%
▪ Fertilizers	(lbs. or %)	50%
▪ Herbicides	(lbs. or %)	100%
▪ Pesticides	(lbs. or %)	

Anti-/De-Icing products and ratios	% NaCl	99.9
	% CaCl ₂	
	% MgCl ₂	0.1
	% CMA	
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized	(y/n)	Y
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	N
Estimated net reduction in typical year salt application	(lbs. or %)	25
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	NA



JOHN B. HAINES
Highway Surveyor

Highway Department

TOWN OF EAST BRIDGEWATER, MASSACHUSETTS 02333

Tel: (508) 378-1620
Fax: (508) 378-1632

April 26, 2006

United States Environmental Protection Agency
Water Technical Unit (WTU)
P.O. Box 8127
Boston, Massachusetts 02114

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, Massachusetts 01608

RE: NPDES Phase II Small MS4 General Permit
Town of East Bridgewater, Massachusetts Annual Report
MADEP Transmittal No. W-041043
EPA Permit Number MAR041109

To Whom It May Concern:

The Town of East Bridgewater, Massachusetts is pleased to provide you with the attached National Pollutant Discharge Elimination System (NPDES) Phase II Small MS4 General Permit Annual Report for the period from March 2005 to March 2006. In general, the Town has continued the development of their stormwater management program and has continued to implement activities in accordance with regulatory requirements as available funding is available.

Should you have any questions, please do not hesitate to call me at (508) 378-1620.

Sincerely,

John Haines
Director of Public Works