

4/26/11

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Municipality/Organization: Town of Easton
EPA NPDES Permit Number: MAR041111
MassDEP Transmittal Number: W-
**Annual Report Number
& Reporting Period:** April 1, 2010 – March 31, 2011

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2011)**

Part I. General Information

Contact Person: Wayne P. Southworth **Title:** Director, Public Works
Telephone #: 508-230-0810 **Email:** wsouthworth@easton.ma.us
Mailing Address: 417 Bay Rd, South Easton, MA 02375

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: Wayne P. Southworth

Title: Director, Public Works

Date:

4/19/11

Part II. Self-Assessment – The Town of Easton has completed the required self-assessment and has determined that our municipality continues to be in compliance with all permit conditions. A list of highlight activities which were accomplished during Permit year 8 follows:

Easton's coordinative efforts with the Canoe River Aquifer Advisory Committee, Natural Resources Trust, Taunton River Watershed Alliance and Local interest groups is greatly enhanced by the addition of the Green Communities Committee which add to Easton's storm water outreach efforts to educate the public on Storm Water Management issues. The Water Division continued to educate parents and students regarding storm water through their annual Water Division Open House and poster contest. Other notable efforts in keeping Easton clean and "getting the word out" are Household Hazardous Waste Collection Day, Community Pride Clean-up Day, Arbor Day, and the Canoe River Clean-up Day.

Through Easton's Storm Water GIS Project, Easton's drainage system which had been scanned into the computer and outfalls which were located by GPS, are now stored for all time and can be reproduced in part or in whole as desired. The dry weather stream sampling program continues to be monitored and good housekeeping practices are also continuing to be enforced within the DPW. The requirement of BMP's for erosion and sediment control on all projects continued during permit year 8.

The Highway Division's treatment of roads using mainly Magnesium Chloride to melt snow during winter conditions has greatly reduced the accumulation of sand in Easton's catch basins. Household Hazardous Waste Collection Day, Community Pride Clean-up Day, Arbor Day, and the Canoe River Clean-up Day with individual and local interest groups participating was in concert with Easton's storm water management program.

Based on Draft Regulations for Permit-10, Easton has started its "game planning" to develop its SWMP goals and objectives to meet anticipated new Permit-10 NPDES requirements.

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)	Future Planned Activities
1A Revised	Education Materials	Dept. of Public Works	Materials Posted and distributed	The Green Communities Committee has increased our efforts in continuing to educate the public on such subjects as clean waters, water conservation, and storm water management issues via posters and handouts obtained from EPA, State, and Town of Easton publications.	Easton will continue to use EPA, State, and Local posters and publications which are displayed and offered at town offices as handouts to keep the public aware of the need for good storm water management, and continue to “Educate rather than Regulate” students and the public on storm water management issues.
1B Revised	Coordination with Others	DPW Director	Meetings held with Others	The Green Communities Committee in addition to the Canoe River Aquifer Advisory Committee, the Natural Resources Trust (NRT), Boy and Girl Scout organizations, the Lions Club, and the public continued their support of the Storm Water Management Program during permit year 8. In addition, participated in the Taunton River Watershed SWM issues and held training sessions on SWM with area towns.	The success of Easton’s Storm Water Management program was greatly enhanced by the addition of the Green Communities Committee in coordinating with others and will continue during permit year 9.

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)	Future Planned Activities
2A	Public Hearings	Planning and Zoning Board	Public Hearings on Storm Water Management held.	Public Hearings were held by the P&ZB to make existing Storm Water Management requirements more stringent.	No future public hearings are scheduled.
2B	Local Interest Groups	Dept. of Public Works	Local interest groups contacted to support the Storm Water Management Program.	During Permit year 8, the Canoe River Aquifer Advisory Committee, the Natural Resources Trust (NRT), the Lions Club, and local interest groups were contacted to continue their support of the Storm Water Management Program. In addition training sessions on SWM were held with area towns at Stonehill College.	It is intended to continue contacting the Canoe River Aquifer Advisory Committee, the Natural Resources Trust (NRT), the Lions Club, local interest groups, and area towns during Permit year 9 to support Easton's Storm Water Management Program.
2C	Stream Cleanup Days	Dept. of Public Works	Stream Cleanup Days arranged. Stream Cleanup Days has been replaced with a Street cleanup day which is a much safer alternative for volunteer groups.	The DPW conducts normal stream maintenance activities annually as needed. In addition, the Massachusetts Mosquito Control Office is also contacted to cleanup any streams in serious need of clearing. During year 8, annual street clean-ups were conducted by individuals and local interest groups with support from DPW staff.	Volunteer groups will continue to be asked to participate in street cleaning activities with the assistance of DPW personnel and equipment. The Massachusetts Mosquito Control Office will continue to be contacted to cleanup any streams in serious need of clearing beyond normal stream maintenance activities conducted by the DPW.
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Revised			
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2a. Additions

[illegible]

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)	Future Planned Activities
3A Revised	Drainage System Map	Dept. of Public Works	Drainage map developed.	Through Easton's Storm Water GIS Project, Easton's drainage system which had been scanned into the computer and outfalls which were located by GPS, are now stored for all time and can be reproduced in part or in whole as desired.	Easton's GIS Storm Water Map will be continually maintained and upgraded as new data becomes available including the drainage system maps of new subdivisions.
3B Revised	Modify Existing Regulations	DPW Director and Storm Water Advisory Committee	Modification of existing regulations completed.	Existing regulations were modified to reflect new storm water management requirements at the inception of the storm water management program and updated to make the SWM regulations more stringent. New LID policy is being drafted which will greatly enhance Easton's storm water management efforts.	When the new LID policy has been completed, it may in some way be added to the storm water management program.
3C Revised	Identify Illicit Discharges	Dept. of Public Works	Establish a dry weather sampling program.	The stream monitoring program continued at nine strategic locations in Easton during Permit year 8 as part of Easton's dry weather sampling program.	Periodic visits and sampling of Easton's streams will be continued as part of its stream monitoring program.
Revised					
Revised					
Revised					
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 8 (Reliance on non-municipal partners indicated, if any)	Future Planned Activities
4A Revised	Erosion/Sediment By-Laws	Storm Water Advisory Committee	Erosion and sediment control regulations in place.	Erosion and sediment control requirements were revisited when updating and making the SWM regulations more stringent.	No action anticipated unless required by Permit-10 NPDES.
4B Revised	Sanctions	Board of Selectmen	Sanctions written into by-laws.	No further action was needed on this completed task. Fines of \$100 may be levied for any illicit discharges is enforceable.	No further action anticipated.
4C Revised	BMP's for Erosion and Sediment Control	Planning and Zoning Board	Erosion and sediment control requirements written into by-laws	Erosion and sediment control requirements are included in Storm Water Management by-laws and were revisited when the SWM regulations were made more stringent.	No action anticipated unless required by Permit-10 NPDES.
4D Revised	Control of Construction Wastes	Conservation agent and Building Inspection Dept.	Site inspections conducted to assure compliance.	The Conservation agent and Building Inspection Dept. inspects all construction sites as required to assure compliance with Easton's storm water management program..	Construction sites will continue to be inspected by the Conservation agent and Building Inspection Dept. or their representative.
4E Revised	Information from Public	Chairman, Storm Water Advisory Committee	Establish a "Hot Line" for citizens to report violations.	Easton's "Hot Line" remains in place and residents reminded in their water bills to report all Storm Water Management violations.	Easton's "Hot Line" will continue to be manned to take proper action on any reported Storm Water Management violations.
4F Revised	Inspection and Enforcement	Conservation agent and Building Inspection Dept.	Inspection and enforcement procedures in place.	The Conservation agent or its representative inspects and enforces BMP requirements at construction sites.	Inspections and enforcements will continue at all construction sites and any violations reported to the Bd. of Health and/or Bldg. Inspection Dept.

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 8 (Reliance on non-municipal partners indicated, if any)	Future Planned Activities
5A	Enforce Existing Regulations	Federal, State, and Local Interests	Each agency enforces respective regulations.	Storm water regulations developed by the State, EPA, and Easton have been enforced as needed.	Enforcement of State, EPA, and Local regulations will continue.
Revised					
5B	Multi-Department Reviews	Planning and Zoning Board	Multi-Department reviews are conducted on all site plan and subdivision projects.	The Conservation Commission, Planning Board, Building Inspection Department, DPW, and Fire and Police Departments reviews all aspects of projects which affect their departments.	All projects will continue to undergo multi-departmental reviews.
Revised					
5C	O&M of BMP's	Planning & Zoning Board	O&M requirements stated in Storm Water Management By-Laws.	The Conservation Commission and Planning Board strictly enforce O&M requirements per the Storm Water Management By-laws.	Storm Water Management By-law O&M requirements will continue to be enforced.
Revised					
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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 8 (Reliance on non-municipal partners indicated, if any)	Future Planned Activities
6A Revised	Develop/Implement/Enforce Good Housekeeping	Dept. of Public Works	Train DPW staff on good housekeeping.	Staff supervisors were encourage to stress the benefits of good housekeeping and storm water management to their respective staffs at monthly meetings. Open dialogue is encouraged to present new ideas to improve our storm water management program and good housekeeping practices.	New ideas will continually be sought from staff members to improve good housekeeping efforts at the DPW.
6B Revised	Good Housekeeping	Dept. of Public Works	Adequate housekeeping implemented by the DPW	Parks and open space maintenance exercised proper use of pesticides and disposed of grass and leaves by composting. The Highway Division disposed of street sweepings properly and routinely cleaned catch basins. Fleet maintenance and washing were done in accordance with Wellhead Protection By-Laws, as well as adequately covering salt and sand storage facilities. Hazardous wastes were disposed of during annual HHW days. During new construction and land disturbances strict erosion and sedimentation control measures were exercised.	The DPW workforce will continue to practice and implement good housekeeping practices during their daily activities.
6C Revised	Scheduling	Dept. of Public Works	Schedules developed for DPW O&M activities	Use of the computer by the Operations Manager has greatly enhanced the ability to schedule, track, plan, and organize DPW operations.	The computer will continue to be utilized to assure effective O&M operations by the DPW Operations Manager.
Revised					

Revised						
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 8 (Reliance on non-municipal partners indicated, if any)	Future Planned Activities
Revised					
Revised					
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7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The addition of the Green Communities Committee which add to Easton's storm water outreach efforts together with the coordinative efforts of the Canoe River Aquifer Advisory Committee, Natural Resources Trust, and local interests on storm water management issues has allowed Easton to better manage its storm water management program. This coordination together with the State and EPA's supply of educational materials has kept the public aware of measures needed to keep our waters clean. Other notable efforts in keeping Easton clean and "getting the word out" are Household Hazardous Waste Collection Day, Community Pride Clean-up Day, Arbor Day, and the Canoe River Clean-up Day.

Easton's Storm Water Management By-Laws were updated to be more stringent and once Easton's Low Impact Development (LID) Policy is enacted, it will be a great asset to Easton's storm water management efforts.

Through Easton's Storm Water GIS Project, Easton's drainage system which has been scanned into the computer and outfalls which were located by GPS, are now stored for all time and can be reproduced in part or in whole as desired.

Continual stream testing at nine strategic locations in Easton for pH, Total and Free Chlorine, Nitrates, and Phosphorus allows for comparisons of stream conditions in an effort to assist in detecting possible illicit discharges as part of its stream monitoring program.

Requiring BMP's on all projects together with site inspections for compliance has been effective in supporting Easton's Storm Water Management program. Site inspections by the Planning Board, Conservation Commission, and Building Inspection Department has been effective in erosion and sediment control at construction sites.

New techniques for the treatment of roads during winter conditions namely, increased use of Magnesium Chloride and no sand has resulted in the reduction of sand collected in catch basins. Continually good housekeeping practices by the DPW has done its part in attaining Storm Water Management goals and objectives.

Based on Draft Regulations for Permit-10, Easton has started its "game planning" to develop Easton's SWMP goals and objectives to meet anticipated new Permit-10 NPDES requirements.

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, 2007 through March 31, 2008)

Programmatic

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

Education, Involvement, and Training

Estimated number of property owners 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.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	
▪ community participation **	(# or %)	
▪ 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					
▪ 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

	(Preferred Units)	Response
Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	
Outfalls inspected/screened **	(# or %)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(#)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	
% of population on septic systems	(%)	

Construction

	(Preferred Units)	Response
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 (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	
Low-impact development (LID) practices permitted and encouraged	(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	
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	(#)	
• Vacuum truck(s) owned/leased	(#)	
• Vacuum trucks specified in contracts	(y/n)	
• % Structures cleaned with clam shells **	(%)	
• % Structures cleaned with vacor **	(%)	

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
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	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % 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 **	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)		
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)	(%)	
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)	

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	

# or y/n	Treatment units induce infiltration within 500-feet of a wellhead protection area
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