



Town of Plaistow, New Hampshire

OFFICE OF THE TOWN MANAGER

Sean R. Fitzgerald

Received 6-24-09

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Plaistow Town Hall
145 Main Street
Plaistow, NH 03865

(603) 382-7106 Office
(603) 382-7183 Fax
Email: sfitzgerald@Plaistow.com
Web: www.Plaistow.com

June 18, 2009

Thelma Murphy - CIP
US EPA - Region 1
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Submittal of the Town of Plaistow 2008 MS4 Permit Annual Report

Dear Ms. Murphy:

Attached, please find the Town of Plaistow's 2008 MS4 Permit Annual Report. As a community, we have worked hard to minimize the impact that storm water runoff has on the environment and are pleased to report on our ongoing efforts to enhance the quality of surface and ground water.

Over the last several years, the Town has passed storm water ordinances and regulations to maintain storm water systems and to greatly eliminate or minimize illicit discharge to the Town's watersheds. The Town is strongly committed to continuing its development and implementation of programs to reduce the discharge of pollutants from the Town's regulated Small MS4's to the maximum extent practicable, with the goals of protecting water quality and satisfying the requirements of the Clean Water Act and NH water quality standards. During this sixth year of the permit, the Town has continued to further its efforts including:

- (1) Continuing to map and inventory the drainage infrastructure along maintained roadways;
- (2) Mapping the required storm water features in the Town of Plaistow;
- (3) Continuing to enhance its erosion control project review and contractor oversight program through the work of the Town's Conservation Commission, Planning Board and Code Enforcement through the Town's Planning and Building offices;
- (4) Significantly increasing Town employee training with respect to MS4 and storm water management;
- (5) Purchasing salt usage efficiency systems for Highway Department trucks and sanders;

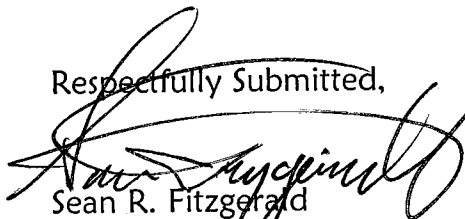
Continued

- (6) Increasing public education and outreach efforts through the development of flyers and posters to be displayed and distributed at Plaistow's 2009 "Old Home Day";
- (7) Posting other press releases, public notices and additional information on the Town's web site;
- (8) Assuring that new developments and redevelopments do not increase flood or drainage hazards to others, or create unstable conditions susceptible to erosion;
- (9) Requiring a deed for the Little River front portion of the property from the developer of a residential project so that the Town may preserve the natural characteristics of river and stream corridors in order to moderate flood and storm water impacts, and to protect water quality.
- (10) Preventing the discharge of contaminated storm water runoff and illicit discharges from industrial, commercial, residential, and construction sites into the storm drainage system within the Town of Plaistow;
- (11) Promoting public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the storm drainage system; and
- (12) Sponsoring "Hazardous Waste Collection Days" to encourage the recycling of used motor oil and safe disposal of other hazardous consumer products.

Lastly, along with our 2008 MS4 Permit Annual Report, please find enclosed a supplemental report and the Town's storm water plan that also help to demonstrate the Town's various activities that we are working on and which better define our responsibilities under our MS4 permit.

Should you have any questions regarding this submittal, please do not hesitate to contact me at (603) 382-5200, Extension 13.

Respectfully Submitted,



Sean R. Fitzgerald
Town Manager

Cc: New Hampshire Department of Environmental Services, Water Division
Plaistow Board of Selectmen

Municipality/Organization: Town of Plaistow, New Hampshire

EPA NPDES Permit Number: NHR41026

MassDEP Transmittal Number: W-

Annual Report Number Year 6

& Reporting Period: April 1, 2008 – March 31, 2009



NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2009)

Part I. General Information

Contact Person: Sean Fitzgerald

Title: Town Manager

Telephone #: (603) 382-5200, Ext. 13

Email: sfitzgerald@plaistow.com

Mailing Address: 145 Main Street, Plaistow, NH 03865

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:

Title:

Date:

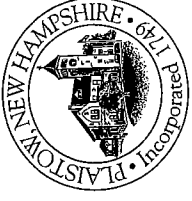
Sean Fitzgerald
SEAN FITZGERALD
TOWN MANAGER
6/18/09

Part II. Self-Assessment

Incorporated with this annual report, please find a matrix of Plaistow's comprehensive listing of activities Town of Plaistow. Many of these practices have been built on prior year activities and are based on Best Practices.

Major accomplishments during the year included:

- **Two Household Hazardous Waste Collection Days were held;**
- **Formation of a Stormwater Management Task Force including the Highway Supervisor, Chief Collector, Officer, Town Planner, Town Manager, Conservation Commission members and three other volunteers;**
- **Inclusion on the Manchester, NH Stormwater Coalition that includes the Town of Auburn, Bedford, Londonderry, Manchester, Plaistow, and the New Hampshire Department of Environmental Services;**
- **Regular inspection, repair and maintenance of over 450 catch basins continued;**
- **Street sweeping program continued;**
- **Plaistow "Old Home Day" with a booth for education on stormwater, erosion control and other Best Practices that help protect the groundwater;**
- **Assured that new developments and redevelopments do not increase flood or drainage hazards to unstable conditions susceptible to erosion.**
- **Preserved the natural characteristics of stream corridors in order to moderate flood and storm water protect water quality.**
- **Identified two additional illicit discharges;**
- **Promoted public awareness of the hazards involved in the improper discharge of trash, yard waste, waste, wastewater, oil, petroleum products, cleaning products, paint products, hazardous waste, and pollutants into the storm drainage system.**
- **Encouraged recycling of used motor oil and safe disposal of other hazardous consumer products.**



Part III. Summary of Minimum Control Measures

1. Public Education and Outreach -- (Please see supplemental information)

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1a. Additions

N/A				
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2. Public Involvement and Participation -- (Please see supplemental information)

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2a. Additions

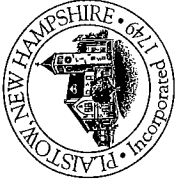
N/A				
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3. Illicit Discharge Detection and Elimination -- (Please see supplemental information)

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3a. Additions

N/A				
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4. Construction Site Stormwater Runoff Control -- (Please see supplemental information)

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4a. Additions

N/A				
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5. Post-Construction Stormwater Management in New Development and Redevelopment -- (Please see supplemental information)

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5a. Additions

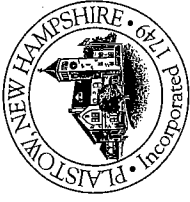
N/A				
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6. Pollution Prevention and Good Housekeeping in Municipal Operations -- (Please see supplemental information)

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6a. Additions

N/A				
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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) -- (Please see supplemental information)

N/A					
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7a. Additions -- (Please see supplemental information)

N/A					
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7b. WLA Assessment

N/A					
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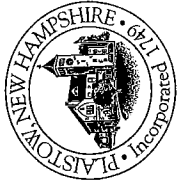
Part IV. Summary of Information Collected and Analyzed -- (Please see supplemental information)

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
	(y/n)	No	
Stormwater management position created/staffed			
Annual program budget/expenditures **	(\$)		\$50,000
Total program expenditures since beginning of permit coverage	(\$)		\$300,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)			General Fund



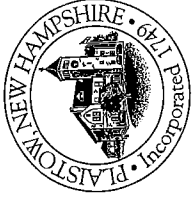
Education, Involvement, and Training

(Preferred Units) Response

Estimated number of property owners reached by education program(s)	(# or %)	50%
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.)	No
Household Hazardous Waste Collection Days		Yes
▪ days sponsored **	(#)	2
▪ community participation **	(# or %)	32%
▪ material collected **	(tons or gal)	15 Gallons, 6 Batteries
School curricula implemented	(y/n)	No

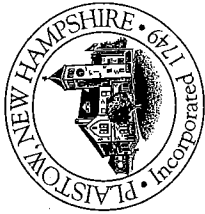
Legal/Regulatory

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
▪ 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					X
▪ Post-Development Stormwater Management					X



Mapping and Illicit Discharges

(Preferred Units)		Response
Outfall mapping complete	(%)	Draft map to be available October 1, 2009.
Estimated or actual number of outfalls	(#)	25
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	30%
Mapping method(s)		
▪ Paper/Mylar	(%)	X
▪ CADD	(%)	0
▪ GIS	(%)	X
Outfalls inspected/screened **	(# or %)	Have contracted with Normandeau & Associates.
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	Have contracted with Normandeau & Associates.
Illicit discharges identified **	(#)	2
Illicit discharges identified (Since beginning of permit coverage)	(#)	8
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

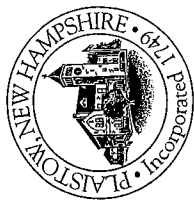


Construction

	(Preferred Units)		Response
	(#)		
Number of construction starts (>1-acre) **		(%)	25
Estimated percentage of construction starts adequately regulated for erosion and sediment control **		(%)	100
Site inspections completed **		(# or %)	25
Tickets/Stop work orders issued **		(# or %)	2
Fines collected **		(# and \$)	0
Complaints/concerns received from public **		(#)	5

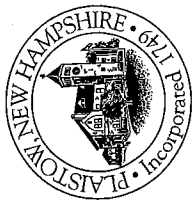
Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)		100
Site inspections (for proper BMP installation & operation) completed **	(# or %)		25
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)		Yes
Low-impact development (LID) practices permitted and encouraged	(y/n)		Staff has been receiving training but nothing implemented at this time.



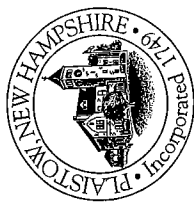
Operations and Maintenance

(Preferred Units) (Response)	
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 **	(#) 478
Qty. of storm drain cleaned **	(%, LF or mi.) 0%
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons) 50 yards
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location) Stockpile
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	(#) Rent
• Vacuum truck(s) owned/leased	(#) None
• Vacuum trucks specified in contracts	(y/n) None
• % Structures cleaned with clam shells **	(%) 100%
• % Structures cleaned with vacor **	(%) 0%



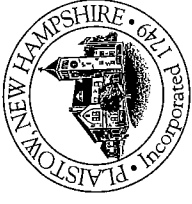
(Preferred Units) (Response)

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1/year
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	1/year
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	70 yards
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$6,500
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	Hourly
• Disposal cost**	(\$)	Landfill/Dump
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	Subcontract
• Vacuum street sweepers owned/leased	(#)	None
• Vacuum street sweepers specified in contracts	(y/n)	None
• % 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)		0%
▪ Fertilizers	(lbs. or %)	0%
▪ Herbicides	(lbs. or %)	0%
▪ Pesticides	(lbs. or %)	0%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	No



(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	50% Salt
	% CaCl ₂	50% Sand
	% MgCl ₂	
	% CMA	
	% Kac	
	% KCl	(There are no low-salt areas in Plaistow).
Pre-wetting techniques utilized ** Manual control spreaders used ** Zero-velocity spreaders used ** Estimated net reduction or increase in typical year salt/chemical application rate Estimated net reduction or increase in typical year sand application rate ** % of salt/chemical pile(s) covered in storage shed(s) Storage shed(s) in design or under construction 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n or %)	None
	(y/n or %)	100%
	(y/n or %)	None
	(±lbs/ln mi. or %)	No Change
	(±lbs/ln mi. or %)	No Change
	(%)	100%
	(y/n or #)	In place
	(y/n)	80%



Water Supply Protection

(Preferred Units) (Response)

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	No
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	No
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N/A