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TOWN OF NORTH ATTLEBOROUGH, MASSACHUSETTS

BOARD OF PUBLIC WORKS

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MICHAEL K. STANKOVICH, DIRECTOR

05

April 29, 2005

U. S. Environmental Protection Agency
Water Technical Unit
P.O. Box 8127
Boston, MA 02114

**Re: NPDES Stormwater General Permit
2004-2005 Annual Report
Town of North Attleborough, MA**

To Whom It May Concern:

Enclosed for your records is the NPDES Stormwater General Permit 2004-2005 Annual Report for the Town of North Attleborough, MA. The Annual Report has simultaneously been filed with the Massachusetts DEP.

If you have any questions or require any additional information, please do not hesitate to call me at 508-695-9621 or our Consultant, Rich Niles with Comprehensive Environmental Inc. at (800)725-2550 ext. 307.

Sincerely,

Town of North Attleborough, Massachusetts

Michael Stankovich
Public Works Director

cc: Massachusetts Department of Environmental Protection, Worcester Office
Rich Niles, Comprehensive Environmental Inc.

Enclosure – NPDES Phase II Small MS4 General Permit 2004-2005 Annual Report

Municipality/Organization: Town of North Attleborough

EPA NPDES Permit Number: MAR041142

MADEP Transmittal Number: W-041030

**Annual Report Number
& Reporting Period:** No. 1: May 1, 2004 to April 30, 2005

NPDES Phase II Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert McGhee

Title: Highway Superintendent

Telephone #: 508-695-9131

Email: rmcghee@north-attleboro.ma.us

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: Mark C Fisher

Printed Name: Mr. Mark Fisher

Title: Chairman, Board of Selectmen

Date: 7/29/05

Part II. Self-Assessment

The Town of North Attleborough has completed the required assessment and determined that our municipality is in compliance with all permit conditions, except for the following: permit eligibility with respect to endangered species and historic places. The Town has begun the process of evaluating stormwater outfalls and permit compliance with the Natural Heritage and Endangered Species Program and the Massachusetts Historical Commission.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
1-1 Revised	Stormwater flyer to community residents	Board of Public Works	Distribute to at least 75% of residents.	8,600 brochures were distributed in year 1. The same flyers were placed on display and made available to residents at the Town Hall, Library, Water Department, and the DPW Department.	Continue displaying flyers at public places.
1-2 Revised	Stormwater lesson plan for fifth grade students	Board of Public Works	Lesson plan taught at one or more grade 5 classes.	A lesson plan was developed by the SuAsCo Watershed Community Council and distributed by the Town to grade 5 classes in March 2005.	Follow up to ensure the lesson plan is being used and track program results.
1-3 Revised	Stormwater flyer to community businesses	Board of Public Works	Distribute to a minimum of 50% of businesses with storm water logo displayed by half of the businesses receiving the flyer.	NOI specified to begin this BMP in Permit Year 3.	Distribute stormwater flyers to businesses (with assistance from SuAsCo).
1-4 Revised	Storm water media campaign	Board of Public Works	Four press releases generated and issued to local media.	NOI specified to begin this BMP in Permit Year 4.	Activity planned for year 4.

1-5	Stormwater video	Board of Public Works	Show a stormwater video at least one public meeting & show stormwater video at least once on local cable channel.	NOI specified to begin this BMP in Permit Year 5.	Activity planned for year 5.
Revised					

1a. Additions

1-6	Community participation/Household hazardous waste collection	Board of Public Works	Annual Hazardous waste day (depends on funding).	Two Hazardous Waste Collection Events were held. The events were advertised in the local paper and on the Town cable channel.	Continue advertising and hold at least one Hazardous Waste Collection Event.
Revised					
1-7	Community yard waste composting	Board of Public Works	Volume of yard waste composted.	Yard waste was accepted from residents for composting. The composting service was advertised in the local paper and on the Town cable channel. Additionally, the town publishes an annual (late summer) press release informing residents not to dump yard waste into stormwater BMP structures (e.g., detention basins).	Continue accepting and composting yard waste and begin tracking volume of compost. Continue to advertise the program through press releases and local cable.
Revised					

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
2-1 Revised	Form a stormwater Committee	Board of Public Works	Establish committee and meet quarterly.	The committee met quarterly during the permit year.	Continue holding Committee meetings and evaluate the progress of the SWMP.
2-2 Revised	Community Hotline	Board of Public Works	Hotline established, record of calls and problems remedied.	The Town received 37 calls related to stormwater and all issues were addressed. Calls were tracked using Cartegraph Call Link software.	Continue logging calls to address stormwater issues.
2-3 Revised	Stormwater traveling display	Board of Public Works	Display circulated for at least 3 months and to at least 3 public places.	The display was circulated and setup in the local schools, Town Hall, Library, Highway Division, & Water Department.	Continue to post the display at public places and at any stormwater events such as the poster contest award event.
2-4 Revised	Stormwater poster contest for fifth grade students	Board of Public Works	Contest held, entries received, judged & displayed.	The stormwater poster contest was announced in February 2005 to the 5 th grade classes.	The deadline for the stormwater poster is May 16 th , 2005, and the winning entry will be displayed in public facilities.
2-5 Revised	Stormwater photo contest for high school students	Board of Public Works	Contest held, entries received, judged & displayed.	NOI specified to begin this BMP in Permit Year 3.	The stormwater photo contest will be held for high school students and the winning entry will be posted in public facilities and on the Town web site.
2-6 Revised	Hold a local multi-community stormwater summit special event and advertise	Board of Public Works	Summit held, attendance records, agenda and resulting action items.	NOI specified to begin this BMP in Permit Year 4.	Planned for year 4.
2-7 Revised	Participate in SuAsCo stormwater super summit & evaluate public awareness of stormwater	Board of Public Works	Participate; distribute stormwater self-test to 75% of town residents, compile and consider test results.	NOI specified to begin this BMP in Permit Year 5.	Planned for year 5.

2a. No additions at this time.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
3-1	Illicit discharge bylaw	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	Existing regulations in Town were compiled and the Phase II requirements were reviewed.	The Stormwater Committee plans to develop a draft bylaw by August 20, 2005, for action at the October 2005 Semi-Annual Town Meeting.
Revised					
3-2	System mapping development	Board of Public Works	Locate all discharges, complete system map & databases, and add soil and land use data to base maps.	Hydraulic modeling for flood prone areas was completed in March 2005. 406 outfalls have been identified in Town and 70 outfalls have been field verified using GPS equipment.	The remaining outfalls in Town (336) will be field verified using GPS equipment by the end of 2005. Mapping efforts will be coordinated with MA Highway Dept. to verify outfall locations along Route 1.
Revised					
3-3	Inspect & sample town drainage system discharges	Board of Public Works	Inspect all discharges, sample and test flows that indicate an illicit discharge may be present.	70 outfalls were inspected for illicit discharges and two dry weather flows were sampled. Inspection and analytical results indicated that no illicit discharges are present at these outfalls.	Public Works employees will be trained to field verify outfalls and conduct illicit discharge investigations. Dry weather outfall inspections and flow sampling will continue as weather permits.
Revised			Train Public Works employees to inspect outfalls.		
3-4	Illegal dumping education	Board of Public Works	# of illegal dumps reported, # of penalties, # of rewards to citizens who reported, # of dumps cleaned.	The Town received 2 calls regarding illegal dumping and all issues were addressed. Calls were tracked using Cartegraph Call Link software.	Continue logging calls to address illegal dumping and stormwater issues.
Revised					
3-5	Septic system controls	Board of Health	# and location of systems, # inspected regularly, # of people trained to inspect, # of failed systems.	Septic system maintenance was mandated in permit year 1.	Ongoing effort.
Revised					

3a. No additions at this time.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
4-1	Soil and erosion control bylaw	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Present bylaw to Town Meeting in year 3.	Existing regulations in Town were compiled and the Phase II requirements were reviewed.	The Stormwater Committee plans to develop a draft bylaw by August 20, 2005, for action at the October 2005 Semi-Annual Town Meeting.
Revised					
4-2	Construction Inspections	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Frequent inspections and # of inadequate sites/plans reported.	Construction activities were reviewed on a daily basis. A consultant was engaged to do subdivision inspections for permit compliance.	Continue tracking & inspecting construction sites.
Revised					

4a. No additions at this time.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
5-1	Bylaw for post construction runoff	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Present bylaw to Town Meeting in year 3.	Subdivision plans were reviewed for the most appropriate stormwater BMPs. In several cases swirl chamber type units (i.e., Vortech™) were required within subdivisions and on large site plans to treat stormwater prior to entry into stormwater conveyance systems and/or receiving waters.	The Stormwater Committee plans to develop a draft bylaw by August 20, 2005, for action at the October 2005 Semi-Annual Town Meeting.
Revised				Existing regulations in Town were compiled and the Phase II requirements were reviewed.	
5-2	Inspect all Town maintained structural BMPs. Document problems	Board of Public Works	Inspect all structural BMPs annually, # of problems identified and remedied, changes in water quality.	Town owned/operated BMPs were inspected and findings recorded. Appropriate maintenance schedules were established based on findings and data was recorded for future use in the Town's GIS system to prioritize and track drainage system maintenance.	Continue inspection program of all Town owned/operated BMPs and update database to prioritize areas of concern.
Revised					
5-3	Update Zoning Regulations	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Update zoning bylaws, track effectiveness of changes, # of new stormwater treatment areas expected under new codes, projected # of upgrades of existing stormwater facilities.	Scheduled for year 3.	The Stormwater Committee plans to develop a draft bylaw for presentation at Town Meeting in August 2005.
Revised					

5a. No additions at this time.

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 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
6-1	Predictive catch basin program	Board of Public Works	Develop program, collect data & refine program.	Cleaned and inspected all catch basins using a standardized inspection form. A database was developed that tracks catch basin locations and sediment volumes removed.	Continue inspection and cleaning program. Begin entering cleaning and inspection data into the GIS database to prioritize accumulation areas based on quantity versus location.
Revised					
6-2	Street cleaning	Board of Public Works	Sweep all roads once-years 1 & 2, twice-years 3-5, all parking lots-years 4-5, # lbs. debris collected.	All roads were swept at least once.	Continue road sweeping program. Begin entering cleaning and inspection data into the GIS database to prioritize accumulation areas based on quantity versus location.
Revised					
6-3	Investigate Town owned BMPs for retrofit opportunities	Board of Public Works	Inspect 3 structural BMPs per year.	Three BMPs were inspected. Two BMPs were retrofitted/ improved: a weir wall was installed to reduce flow velocity and erosion due to flooding at Paine Road; and a double catch basin unit was installed to increase sediment removal at the same location.	Continue inspecting BMPs for retrofit/improvement opportunities.
Revised					

6a. Additions

6-4	Voluntary audit of DPW facilities	Board of Public Works	Improved facility and material handling operations.	Two oil/water separators were added at the Highway Facility to connect floor drains to the sewer system. A Spill Prevention Control and Countermeasure (SPCC) plan was developed for the facility.	Provide SPCC training and continue implementing site improvements from audit.
Revised					
6-5	DPW stormwater training for illicit discharges, pollution prevention and good housekeeping	Board of Public Works	Attendance sheet and copy of program.	An illicit discharge training program was developed for Public Works employees.	Public Works employees will be trained to field verify outfalls and conduct illicit discharge investigations. A stormwater pollution prevention and good housekeeping training program will be developed to train Public Works employees.
Revised					

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

No TMDLs have been established so far for North Attleborough 303(d) waters.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
Revised					

7a. Additions

7-1	Develop a Water Quality Strategy for 303d Waters.	Board of Public Works	Summary of pollution prevention efforts, future needs, and responsible parties. Copy of surface water quality strategic plan.	Scheduled for year 4.	Scheduled for year 4.
7-2	Implement water quality strategy for discharges to 303(d) waters.	Board of Public Works	Photographs, logs, and BMP descriptions for completed efforts and water quality improvements.	Scheduled to begin in year 5.	Scheduled to begin in year 5.

7b. WLA Assessment

Currently, there are no Waste Load Allocations (WLAs) for receiving waters in North Attleborough. As required by the general permit, N. Attleborough will give priority to impaired waters for BMP implementation. Years 1-3 will serve as a building period to implement basic BMPs and establish a solid stormwater management program. In year 4, North Attleborough will assess the effectiveness of those BMPs and devise a water quality strategy for the stormwater discharges into 303(d). Implementation of the water quality strategy for 303(d) waters will begin in Year 5.

Part IV. Summary of Information Collected and Analyzed

70 outfalls were inspected for illicit discharges and two dry weather flows were sampled. Inspection and analytical results indicated that no illicit discharges are present at these outfalls.

Part V. Program Outputs & Accomplishments (OPTIONAL)

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 %)	
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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	