TOWN OF NORTH ATTLEBOROUGH, MASSACHUSETTS

BOARD OF PUBLIC WORKS

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1142

April 28, 2006

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

APR 28 20

Re: NPDES Stormwater General Permit
2005-2006 Annual Report
Town of North Attleborough, MA

To Whom It May Concern:

Enclosed for your records is the NPDES Stormwater General Permit 2005-2006 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 2005-2006 Annual Report

Municipality/Organization: Town of North Attleborough

EPA NPDES Permit Number: MAR041142

MADEP Transmittal Number: W-041030

Annual Report Number & Reporting Period: **No. 3: May 1, 2005 to April 30, 2006**

NPDES PII Small MS4 General Permit Annual Report

APR 28 2006

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: x John Rhyno

Printed Name: Mr. John Rhyno

Title: Chairman, Board of Selectmen

Date: April 27, 2006

Part II. Self-Assessment

The Town of North Attleborough has completed the required assessment and determined that our municipality is in compliance with permit conditions. Permit eligibility with respect to endangered species was marked as pending on the Town's Phase II Notice of Intent (NOI). The Town contacted the Natural Heritage and Endangered Species Program (NHESP) and received a letter dated June 9, 2005, as well as follow-up correspondence on June 30, 2005 from NHESP staff to verify permit eligibility. The Piping Plover and Bald Eagle are federally listed endangered species in Bristol County and staff biologists at NHESP determined that there is no Piping Plover habitat in North Attleborough. NHESP staff were unable to determine habitat occurrences for the Bald Eagle in North Attleborough; however, there is no specific habitat that is protected for this species. Permit eligibility with respect to historic places was marked as pending on the Town's NOI. The Town contacted the Massachusetts Historical Commission and received a letter dated June 20, 2005 discussing that there were no known stormwater impacts at the federally listed historic places.

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	Planned Activities – Permit Year 4
1-1	Stormwater flyer to community residents	Board of Public Works	Distribute to at least 75% of residents.	Flyers were placed on display and made available to residents at the Town Hall, Library, Water Department, and the DPW office.	Continue displaying flyers at public places.
Revised					
1-2	Stormwater lesson plan for fifth grade students	Board of Public Works	Lesson plan taught at one or more grade 5 classes.	The Conservation Commission contacted the school and no progress has occurred on this task during this permit year.	Coordinate efforts with the school and follow up to ensure the lesson plan is being used, as well as track program results.
Revised		Conservation Commission			
1-3	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.	The Town received educational materials from SuAsCo in February 2006 and will begin implementing the program in the spring/summer of 2006. The materials include a "Stormwater Matters" power point presentation and media tool kit.	Use the SuAsCo materials to distribute stormwater flyers to businesses.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-4	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. The Town received a "Stormwater Matters" power point presentation and media tool kit from SuAsCo in February 2006.	Generate four press releases and send to local media outlets.
Revised					
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 in September 2005 and in April 2006. 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.	1,400 cubic yards of yard waste was accepted from residents for composting. The composting service was advertised in the local paper and on the Town website.	Continue accepting, composting and tracking the volume of yard waste. 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 3	Planned Activities – Permit Year 4
2-1	Form a stormwater Committee	Board of Public Works	Establish committee and meet quarterly.	The committee met quarterly during the permit year. The progress of the SWMP was evaluated and ongoing work was discussed.	Continue holding Committee meetings and evaluate the progress of the SWMP.
Revised					
2-2	Community Hotline	Board of Public Works	Hotline established, record of calls and problems remedied.	The Town received 19 calls related to stormwater and all issues were addressed. Calls were tracked using Cartegraph Call Link software.	Continue logging calls to address stormwater issues.
Revised					
2-3	Stormwater traveling display	Board of Public Works	Display circulated for at least 3 months and to at a least 3 public places.	Circulation of the display was not scheduled for Permit Year 3, but the display was maintained at the Water Treatment Plant.	Continue to post the display at the Water Treatment Plant or other public places.
Revised					
2-4	Stormwater poster contest for fifth grade students	Board of Public Works	Contest held, entries received, judged & displayed.	The stormwater poster contest was completed and the winning entry was displayed at the Town Hall. Several students submitted entries that were judged by school staff.	No activity is scheduled for Permit Year 4.
Revised		Conservation Commission			
2-5	Stormwater photo contest for high school students	Board of Public Works	Contest held, entries received, judged & displayed.	The Conservation Commission began coordinating the contest with high school staff. The contest was scheduled to begin in the fall of 2006.	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.
Revised		Conservation Commission			
2-6	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.	Hold a local multi-community stormwater summit special event and advertise in local media outlets.
Revised					
2-7	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.
Revised					

2a. Addition.

2-8	Stream Cleanup Activities Along the Ten Mile River	Board of Public Works	Amount of trash/debris removed.	A section of the Ten Mile River was cleaned from Whitings Pond to Falls Pond. Truck loads of trash, debris, and fallen trees have been removed from the river and banks.	Continue with stream cleanup activities in the fall of 2006 and update residents with the progress of the project. Consider an annual river cleanup event to maintain the restored areas with community participation.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
3-1	Illicit discharge bylaw	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The Stormwater Committee met twice to draft proposed amendments to the Town's Sewer Use Regulations to meet the Phase II requirements for illicit prohibition. The Sewer Use regulations authorize the Board of Public Works (BPW) to control inputs to the drainage system. The draft proposed amendments were submitted to the BPW and Town Counsel for review.	Finalize and adopt the proposed amendments to the Sewer Use Regulations.
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.	The remaining outfalls in Town (336) were field verified using GPS equipment and a comprehensive stormwater outfall map was developed. The drainage systems at public school properties were mapped, as well as the drainage system in Route 1 (operated by Mass Highway).	Drainage mapping data will be integrated with additional databases to evaluate maintenance (see BMPs 6-1 & 6-2). Continue updating map as new drainage system information becomes available.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
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.	All outfalls were inspected to establish a database for maintenance requirements and structural conditions.	Public Work employees will be trained to inspect outfalls for illicit discharges. Dry weather outfall inspections and flow sampling will begin 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 did not receive any calls regarding illegal dumping.	Continue logging calls to address illegal dumping and stormwater issues as they arise.
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. The Board of Health inspected several septic systems and began compiling a list of the status of systems in Town.	Begin evaluating the location, age and condition of septic systems to track water quality concerns and progress.
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 3	Planned Activities – Permit Year 4
4-1	Soil and erosion control bylaw	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The Stormwater Committee met twice to develop a draft Stormwater Bylaw and Regulations to meet the Phase II requirements. The draft bylaw was distributed to all Town boards and departments for review.	Update the draft bylaw and present to the Town Bylaw Committee for final review. Present the draft bylaw at the Fall 2006 Town Meeting. Continue work to develop the Stormwater Regulations to accompany the bylaw.
Revised			Bylaw to Town Meeting in year 4.		
4-2	Construction Inspections	Planning Board, Conservation Commission, Zoning Board of Appeals, Board of Public Works	Frequent inspections and # of inadequate sites/plans reported.	The Conservation Commission conducted approximately 150 erosion control inspections that resulted in 30 enforcement actions. 6 of the enforcement actions ended up in court.	Continue tracking & inspecting construction sites.
Revised					

4a. Addition.

4-3	Establish a Procedure for the Receipt of Information Submitted by the Public	Board of Public Works	# of issues reported, record of enforcement actions	The DPW did not receive any calls regarding construction sites; however, the Conservation Commission conducted numerous site inspections to address construction site erosion issues (refer to BMP 4-2). Calls were tracked using Cartegraph Call Link software.	Continue logging calls to address construction site erosion issues.
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
5-1	Bylaw for post construction runoff	Planning Board, Conservation Commission, ZBA, Board of Public Works	Present bylaw to Town Meeting in year 3.	The Stormwater Committee met twice to develop a draft Stormwater Bylaw and Regulations to meet the Phase II requirements. The draft bylaw was distributed to all Town boards and departments for review. The Town continues to review subdivision plans for the most appropriate stormwater BMPs that will be protective of water quality.	Update the draft bylaw and present to the Town Bylaw Committee for final review. Present the draft bylaw at the Fall 2006 Town Meeting. Continue work to develop the Stormwater Regulations to accompany the bylaw.
Revised			Bylaw to Town Meeting in year 4.		
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.	Updates to the zoning regulations were not pursued since the proposed stormwater bylaw and regulations have not undergone final review.	The need for updates to the zoning regulations will be discussed at the Stormwater Committee meeting in early May 2006. The regulations will be updated concurrently with the progress of the stormwater bylaw and regulations in advance of the Fall 2006 Town Meeting.
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 3	Planned Activities – Permit Year 4
6-1	Predictive catch basin program	Board of Public Works	Develop program, collect data & refine program.	All catch basins were cleaned and sediment volumes were tracked by catch basin cleaning routes to evaluate quantities generated per location. A preliminary database and Predictive Catch Basin Program was developed by the Town's consultant as part of an asset management system using Microsoft Access and GIS.	Continue inspection and cleaning program and update database. Begin evaluating cleaning locations and schedules to prioritize accumulation areas based on quantity versus location.
Revised		Consultant			
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 and sediment volumes were tracked by street to evaluate quantities generated per location. A preliminary database was developed by the Town's consultant as part of an asset management system using Microsoft Access and GIS.	Begin entering sweeping data into the GIS database to prioritize sweeping needs based on quantity versus location. Continue road sweeping program and increase sweeping frequencies as appropriate and as budget allows.
Revised					
6-3	Investigate Town owned BMPs for retrofit opportunities	Board of Public Works	Inspect 3 structural BMPs per year.	All outfalls/culverts in Town were inspected for maintenance issues. Construction began on a new headwall at Autumn St. to address stormwater flows by reducing scouring and erosion. Three BMPs were inspected for retrofit opportunities.	Continue inspecting BMPs for retrofit/improvement opportunities. Construct improvements to BMPs as budget allows.
Revised					

6a. Additions

6-4	DPW stormwater training for illicit discharges, pollution prevention and good housekeeping	Board of Public Works	Attendance sheet and copy of program.	Public Works employees were trained to use GPS equipment for field verifying outfalls and drainage system features. An outline for the pollution prevention and good housekeeping training program was reviewed for Public Works employees.	The stormwater pollution prevention and good housekeeping training program will be finalized. The program will contain a detailed training component for screening outfalls for illicit discharges.
Revised					

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
6-5	Develop an Inspection and Maintenance Plan for the Drainage System	Board of Public Works	Database Program, Records of inspections and maintenance.	Forms and templates for inspecting outfalls/culverts were incorporated into the inspection program and the Town inspected all structures. A preliminary database was developed by the Town's consultant as part of an asset management system using Microsoft Access and GIS.	Refine inspection sheets, as appropriate to track maintenance needs and incorporate data into electronic databases. Begin prioritizing maintenance needs with emphasis on water quality benefits. Incorporate procedures for addressing water quality improvements for flood control projects.
Revised					
6-6	Evaluate Town-wide Municipal Operations for Pollution Prevention Options	Board of Public Works	Evaluation completed in year 4 and recommendations implemented in year 5.	Scheduled to begin in year 4.	Evaluate Town-wide municipal operations and develop BMPs, as appropriate, to address potential stormwater impacts.
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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
Revised					

7a. Additions

7-1	Develop a Water Quality Strategy for 303(d) Waters.	Board of Public Works	Summary of pollution prevention efforts, future needs, and responsible parties. Copy of surface water quality strategic plan.	Scheduled to begin in year 4.	Begin evaluating the status of BMPs and pollution prevention efforts with respect to 303d waters.
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.	N/A	To be determined.

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 served as a building period to implement basic BMPs, generate data and establish a solid stormwater management program. In year 4, North Attleborough will begin evaluating the effectiveness of those BMPs and stormwater discharges into 303(d) waters.

Part IV. Summary of Information Collected and Analyzed

All outfalls and culverts have been field verified and inventoried for maintenance needs. Two years worth of street sweeping and catch basin cleaning data has been compiled to begin evaluating maintenance priorities based on quantities of material per location.

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)	