

Municipality/Organization: Town of Nahant

EPA NPDES Permit Number: MA04105141

MaDEP Transmittal Number: W-040989

**Annual Report Number
& Reporting Period:** No. 1: March 04-March 05

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NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Mr. Mark Cullinan **Title:** Town Administrator

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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.

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as completed the required self-assessment and has determined that our municipality is in compliance with

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	Place Educational Information on the Town's Web Site	Nahant Town Administrator Nahant Webmaster	Spring '03-Winter '07- '08 <ul style="list-style-type: none"> Post stormwater related information on the Nahant Public Services web site. Update web site regularly. 	<ul style="list-style-type: none"> In 2003 the "Water Management " page was developed for the Town's official website (www.nahant.org). This page introduced Nahant's NPDES General Permit for Stormwater Discharges and has links to the Town's SWMP and power point presentation used to introduce it at the public meeting, Water Conservation information and links to websites containing pertinent environmental information. Throughout 2004 the Town continuously updated information stormwater related information on the website. 	<ul style="list-style-type: none"> Update the "Water Management" web page regularly and continue to post new stormwater related information throughout 2005.
1-2	Conduct an Annual Household Hazardous Waste Collection Day & Collect Used Motor Oil and Batteries at the DPW	Nahant Department of Public Works Nahant Webmaster	Spring '03/'04/05 (Revised Below)'/06/'07 <ul style="list-style-type: none"> Co-sponsor an annual Household Hazardous Waste Collection Day. Continue to develop the Household Hazardous Waste Collection Day flyer on an annual basis for availability at the Nahant Town Hall and other municipal buildings. Annually send a press release advertising the event to the Harbor Review and other local newspaper and track which newspapers published it. Advertise the annual event on the Nahant public cable access Channel 8 Bulletin Board. Maintain and update the Town's web page. Track the amounts and types of waste collected each year. Track the number of Nahant vehicles that participate in the event each year. Spring '04 – Winter 07/08 <ul style="list-style-type: none"> The DPW will continue to collect used motor oil and old batteries throughout the permit term. This service will be continuously announced via the Town's public access station and an annual mailer. 	<ul style="list-style-type: none"> The Town advertised the Essex County HHW Collection Network events that are open to non-residents. These events were advertised via the Town's website and flyers posted throughout the Town Hall and other municipal buildings. Throughout 2004, the Town accepted 7 air conditioners, 37 monitors, 13 microwaves, 48 televisions and approx. 1000 gallons of used motor oil at its Public Works facility. 	<ul style="list-style-type: none"> The Town will advertise Essex County HHW Collection Network events that are open to non-residents. These events will be advertised via the Town's website and flyers posted throughout the Town Hall and other municipal buildings.
Revised 1-2	Advertise Essex County Household Hazardous Waste Collection Day Events that are open to non-residents	Nahant Department of Public Works	Spring '04/05 <ul style="list-style-type: none"> Due to poor turnout during previous years and the high cost of the event, the Town will not cosponsor a HHW collection day during permit years 2 & 3. As a substitution, the Town will advertise Essex County HHW Collection Network events that are open to non-residents. These events will be advertised via flyers posted throughout Town. 		
1-3	Intensify the Existing Pet Waste Management Campaign	Nahant Animal Control Department Town Clerk's Office Nahant Department of Public Works	Spring '04 – Winter 07/08 <ul style="list-style-type: none"> Update fact sheets to include information regarding the effects of pet wastes on water quality and what pet owners can do to reduce water pollution. Distribute updated fact sheets with dog licenses, dog license renewals, and at the Town sponsored Spring rabies clinic. Track the number of fact sheets distributed annually. Track the number of violations issued per year. Post pet waste management information on the Town's web site. Establish "pet waste stations" at the designated "Dog Beach". Track the number and location of new signs posted that advertise the Town's pet waste removal by-law. 	<ul style="list-style-type: none"> Pet waste stations with signs advertising the Town's pet waste removal policies were placed at the following locations: <ul style="list-style-type: none"> Short Beach (1) Library Playground (1) Flash Rd. Playground (1) Little Nahant Playground (1) Updated fact sheets to include information regarding the effects of pet wastes on water quality and what pet owners can do to reduce water pollution. Distributed updated fact sheets with dog licenses, dog license renewals, and at the Town sponsored Spring rabies clinic. There were zero (0) violations issued during permit year 2. 	<ul style="list-style-type: none"> Continue to distribute the updated fact sheets with dog licenses, dog license renewals, and at the Town sponsored Spring rabies clinic. Track the number of violations issued per year. Post pet waste management information on the Town's web site.

1-4	Distribute Educational Information Targeted to Community Businesses	Nahant Town Administrator Nahant Webmaster	Summer '04 (Revise date to Summer '05) <ul style="list-style-type: none"> Develop an educational flyer targeted to local businesses. Distribute the educational flyer to 100% of the businesses in the municipality. Post the informational flyer on the Town's website 	<i>No activities to report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
1-5	Promote Water Conservation Practices for Homeowners	Nahant Department of Public Works Nahant Board of Selectmen's Office.	Fall '03 – Winter '07/08 <ul style="list-style-type: none"> Track the number of dye tablets distributed by the Board of Selectmen's Office. Track the number of water-efficiency kits issued by the Board of Selectmen's Office. Post water conservation information on the DPW's web page. Post water conservation posters at Town Hall and the public library. Summer '04 & '05 – '07 <ul style="list-style-type: none"> Include water conservation bill inserts with the September 2004/05/06/07 water bill. Track the number of additional bill inserts mailed each year of the permit term. Fall '03 – Winter '07/08 <ul style="list-style-type: none"> Issue an annual press release to local newspapers to promote water conservation. 	<ul style="list-style-type: none"> 100 dye tablets were distributed. Zero water efficiency kits were distributed. Water conservation information was posted on the Town's water management web page. Water conservation posters were posted at Town Hall and the public library. Water Conservation bill insert was included in the September 2004 water bill. Leak detection services were provided for six (6) residences during 2004. 	<ul style="list-style-type: none"> Track the number of dye tablets distributed by the Board of Selectmen's Office. Track the number of water-efficiency kits issued by the Board of Selectmen's Office. Include water conservation bill inserts with the September 2005 water bill. Track the number of additional bill inserts mailed each year of the permit term.
1-5a	Promote Water Conservation Practices for Homeowners	Nahant Department of Public Works Nahant Board of Selectmen's Office.	Summer '03 <ul style="list-style-type: none"> Distribute complimentary rain gauges to residents. Rain gauges are intended to promote water conservation practices by providing a means of determining how much more water, if any, a lawn may require after a rain event. Track the number of rain gauges distributed. 	<i>No Activities planned for Permit Year 2</i>	<i>No Activities planned beyond Permit Year 1</i>
1-6	Conduct Metal Recycling Day Events & White Goods Pickup	Nahant Department of Public Works Nahant Webmaster	Spring, Summer & Fall of '03/04/05 <ul style="list-style-type: none"> Sponsor six metal recycling day events annually. Produce an annual flyer that outlines the Metal Recycling Day schedule for that year and make flyers available at Town Hall and the DPW Facility. Advertise each Metal Recycling Day event on Nahant's public cable access television station, Channel 8, Bulletin Board. Maintain and update the Metal Recycling Day and white goods pick up services information on the Town's web site. Track the amounts and types of waste collected at each Metal Recycling Day event. Track the amounts and types of white goods collected each year by the white goods pick up service. 	<ul style="list-style-type: none"> Sponsored six metal recycling events. Produced a notice that announced the events and posted it at Town Hall and the DPW. Advertised the events on Nahant's cable access television station Bulletin Board. Maintained and updated the Metal Recycling Day and white goods pick up services information on the Town's web site. During the 2004 permit year, 480 cubic yards of white goods were collected during the recycling day events. Goods collected consisted of discarded washing machines, refrigerators, dishwashers, bicycles, grills, propane tanks and miscellaneous steel products. 	<ul style="list-style-type: none"> Track the amounts and types of waste collected at each Metal Recycling Day event. Track the amounts and types of white goods collected each year by the white goods pick up service.
1-7	Advertise EPA Broadcast of "After the Storm"	Nahant Town Administrator Nahant Webmaster	Winter '03/04 <ul style="list-style-type: none"> Use Nahant's official website to advertise the February 4, 2004 (11 pm EST), May 9th (8:30 and 11:30 pm EST) and June 26th (8:30 and 11:30 pm EST) broadcasts of the EPA's half-hour TV special, After the Storm. 	<i>No Activities planned for Permit Year 2</i>	<i>No Activities planned beyond Permit Year 1</i>
1-8	Sponsor an Organic Lawn Care Workshop	Nahant Town Administrator Open Space Committee Nahant Garden Club	Summer '03 <ul style="list-style-type: none"> Sponsor a lawn care workshop based on the Pesticide Reduction Resources Guide for Citizens and Municipalities of Massachusetts. Advertise the event. 	<i>No Activities planned for Permit Year 2</i>	<i>No Activities planned beyond Permit Year 1</i>

1a. Additions

No additions to report.

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	Public Presentation, Access to Draft SWMP & Receipt of Comments	Nahant Town Administrator Nahant Webmaster	Summer '03 <ul style="list-style-type: none"> Hold an SWMP Informational Meeting. Make draft SWMP available to the public and conduct public meeting and comment period. Finalize SWMP. Make the final SWMP accessible to the public via the Town's public library and web page. 	<i>No Activities planned for Permit Year 2</i>	<i>No Activities planned beyond Permit Year 1</i>
2-2	Conduct Public Presentation & Receive Comment on Annual Report	Nahant Town Administrator	Spring '04/05/06/07 <ul style="list-style-type: none"> Prepare annual reports. Post the annual Report on the Town's official website. Place a notice advertising the status of the Town's SWMP and comment period for the annual report in local newspapers and track whether or not it was published. (Revised Below) <ul style="list-style-type: none"> Announce the public comment period for the annual report at a televised Board of Selectmen's meeting. (Delete this Measurable Goal - The Town will continue to announce availability of annual report at a televised Board of Selectmen's meeting but will not track the effort.) <ul style="list-style-type: none"> Submit an annual report to both the EPA and MA DEP. 	<ul style="list-style-type: none"> Submitted an annual report to both the EPA and MA DEP. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
Revised 2-2	Make Available to the Public & Receive Comment on Annual Report	Nahant Town Administrator	Spring '05/06/07 <ul style="list-style-type: none"> Post a notice advertising the status of the Town's SWMP and comment period for the annual report on the Towns Website. Accept comments via the Towns Online Contact form. 		
2-3	Provide Support to Local Cleanup Activities	Nahant Department of Public Works Nahant Conservation Commission	Spring '04 <ul style="list-style-type: none"> Draft and distribute an annual letter to offering assistance with local cleanup activities to neighborhood associations, homeowner associations, beach associations, and civic groups active in Nahant. Place information contained in letter on the Town's official website. Track which entities the letters are sent to each year. Track the number of cleanup activities the DPW assists in conducting each year. Track the number of cleanup participants at each activity the DPW assists in conducting. Track which areas of Town are cleaned by each activity the DPW assists in conducting. Track the quantity of waste collected as a result of the cleanup activity. 	<ul style="list-style-type: none"> No letter was drafted and distributed during Permit Year 2 because several groups solicited the Town for assistance with their cleanup activities. The Town's assistance generally consisted of providing tools, safety items and trash pick-up services. March '04 – Initiated and coordinated Cleanup activity with inmates from the Massachusetts Department of Corrections. April '04 – Assisted the Audubon Society with local cleanup activities. April '04 – Assisted the Bailey's Hill Group with Cleanup activities. October '04 – Assisted the Little Nahant Improvements Association with Cleanup activities. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.

2a. Additions

No additions to report.

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	Complete the Town's Storm Drain System Map	Nahant Town Administrator Town Clerk Nahant Planning Board Nahant Department of Public Works	<p>Spring '04</p> <ul style="list-style-type: none"> Map twenty percent of the Town's Storm Drainage system each year beginning in the Spring of 2004. <p>Spring '05 (Revise date to Spring '06)</p> <ul style="list-style-type: none"> Draft and take to Town Meeting an amendment to the Nahant Subdivision Rules and Regulations that would require project proponents to submit a copy of the subdivision's as-built plans to the Planning Board in digital format. Continuously update the storm drainage system map(s) as new components are added to the municipal storm drainage system. 	<ul style="list-style-type: none"> By conducting a storm drain facility inventory and survey, the Town was able to map 100% of the Town's catch basins and outfalls in a GIS format. The Town is currently in process of mapping the storm drain conduit that connects these catch basins and outfalls, to date this effort is 50% complete. While the revisions to the Nahant Subdivision Rules and Regulations identified in the Measurable Goal(s) column has not yet been completed, during Permit Year 2 the Town was proactive and requested that project proponents submit as-built plans in a digital format. During Permit Year 2 digital as-builts were received for three projects. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
3-2	Adopt an Illicit Discharge & Connection Stormwater By-Law	Nahant Town Administrator Town Clerk	<p>Winter '04/05 (Revise date to Winter '05/06)</p> <ul style="list-style-type: none"> Draft the Illicit Discharge and Connection Stormwater Bylaw. <p>Spring '05 (Revise date to Spring '06)</p> <ul style="list-style-type: none"> Take the Illicit Discharge and Connection Stormwater By-Law to Town Meeting for acceptance. <p>Spring '05 – Winter '07/08 (Revise date to Spring '06 – Winter '07/08)</p> <ul style="list-style-type: none"> Track the number of enforcement actions taken. Track the number of street opening permits. 	<i>No Activities to report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
3-3	Develop a Formal Illicit Discharge Detection and Elimination Plan	Nahant Department of Public Works	<p>Spring '04 (Revise date to Spring/Summer '05)</p> <ul style="list-style-type: none"> Develop an Illicit Discharge Detection and Elimination Plan. <p>Spring '04 – Winter '07/08</p> <ul style="list-style-type: none"> Conduct dry-weather field screening of outfalls and track the number of surveys indicating a possible illicit connection. Trace the source of potential illicit discharges. Track the number of illicit connections found. Track the number of illicit connections repaired/replaced. Report on the success of obtaining alternative funding to assist in illicit connection removal. 	<ul style="list-style-type: none"> 100% of the outfalls were surveyed quarterly during Permit Year 2. However, these surveys were not "formally" completed (i.e. outfall inspection forms unavailable for these screenings). Formal program began in Spring 2005. The first "formal" dry-weather screening of outfalls was conducted in February 2005. No illicit connections were found during Permit Year 2. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
3-4	Formalize the Town's Storm Drain Stenciling Program	Nahant Department of Public Works	<p>Summer '04/05/06/07</p> <ul style="list-style-type: none"> Each year identify any catch basins that are no longer stenciled and establish schedule for the activity. (Inlets will be surveyed during catch basin cleaning.) Track the number of drains stenciled each year. Submit a press release to the Harbor Review. 	<ul style="list-style-type: none"> 100 catch basins were stenciled with the message "Drains to the Ocean." 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.

3a. Additions

No additions to report.

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	Adopt a Stormwater Management and Land Disturbance By-law	Nahant Conservation Commission Nahant Town Administrator	Winter '04/05 (Revise date to Winter '05/06) <ul style="list-style-type: none"> Draft the Stormwater Management and Land Disturbance By-law. Spring '05 (Revise date to Spring '06) <ul style="list-style-type: none"> Take the Stormwater Management and Land Disturbance By-law to Town Meeting for acceptance. Track the number of enforcement actions taken. 	<i>No Activities to Report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
4-2	Develop a Site Inspection Form and Conduct Site Inspections	Nahant Conservation Commission	Spring '05 (Revise date to Spring '06) <ul style="list-style-type: none"> Develop a Site Inspection Form that reflects the ESCP requirements. Track the frequency of inspections conducted for each site. Track the completion of inspection forms. Track the number of failed ESC BMPs discovered on each site. 	<i>No Activities to Report for Permit Year 2</i>	<i>No Activities planned for Permit Year 3</i>
Revised			<i>Dates have been revised to correspond with the acceptance of the Stormwater Management and Land Disturbance By-law (BMP 4-1)</i>		
4-3	Develop and Implement a Citizen Complaint Hotline	Nahant Department of Public Works Nahant Webmaster	Fall '04 (Revise date to Fall '05) <ul style="list-style-type: none"> Establish the Citizen Complaint Hotline. Advertise the Citizen Complaint Hotline. Track the number of complaints received via the Citizen Complaint Hotline. Track the problems/incidents remedied as a result of the Citizen Complaint Hotline. 	<i>No Activities to Report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
Revised			<i>Dates have been revised to correspond with the acceptance of the Stormwater Management and Land Disturbance By-law (BMP 4-1)</i>		

4a. Additions

No additions to report.

6. Pollution Prevention and Good Housekeeping in Municipal Operations

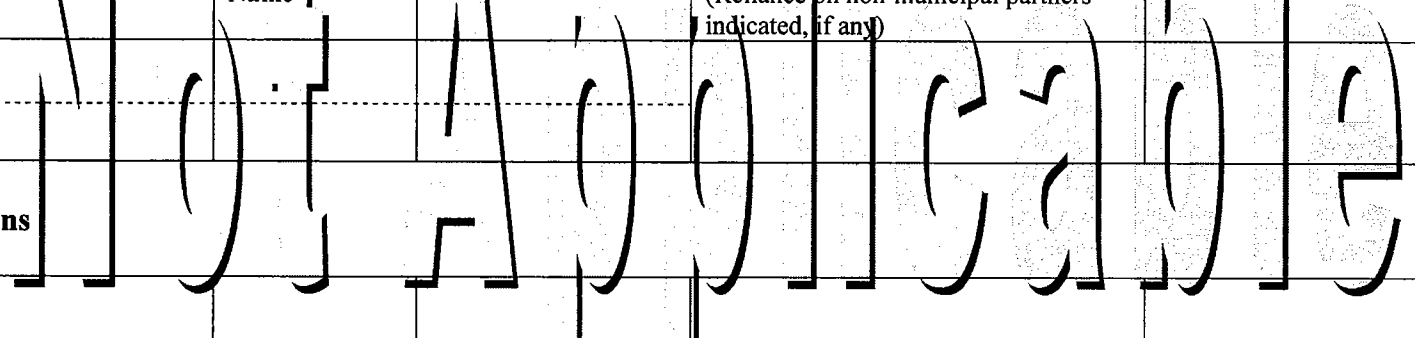
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 2 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 3
6-1	Develop a Formal Training Program for DPW Staff	Nahant Department of Public Works Supervisor Nahant Town Administrator	<p>Fall '04 (Revise date to Fall '05)</p> <ul style="list-style-type: none"> Develop the DPW employee-training manual. Conduct training sessions with all current employees. Train all new DPW employees in accordance with the training manual. Track employees trained in accordance to the training manual. <p>Fall '04 – Winter '07/08 (Revise date to Winter '07/08)</p> <ul style="list-style-type: none"> Conduct refresher training for employees after every two years of employment. 	<i>No Activities to Report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
6-2	Formalize the Catch Basin Cleaning Program	Nahant Department of Public Works	<p>Spring '04/06</p> <ul style="list-style-type: none"> Award biennial catch basin cleaning contract. Document biennial cleaning activities. 	<ul style="list-style-type: none"> The biennial catch basin cleaning contract was awarded in the Spring of '04 and cleaning was conducted in May '04. 	<ul style="list-style-type: none"> Clean catch basins in critical areas as needed. The next biennial catch basin cleaning contract will be awarded in the Spring of '06, cleaning will commence in May '06 for that contract.
6-3	Formalize the Existing Parking Lot and Street Sweeping Program	Nahant Department of Public Works	<p>Fall '04 – Winter '07/08</p> <ul style="list-style-type: none"> Conduct an inventory of all municipal streets and parking lots. Track the number of times the inventoried municipal streets and parking lots are swept each year. Maintain an accurate log of sweepings collected and method of disposal. Re-evaluate storage practices and make improvements in order to ensure compliance with the MADEP BWP Reuse and Disposal of Street Sweepings Policy. Update inventory of municipal streets and parking lots as needed. 	<p><i>No Activities planned for Permit Year 1</i></p> <ul style="list-style-type: none"> The inventory of all municipal street and parking lots has been completed. The Town's 20 miles of municipal roadway where swept four (4) times during Permit Year 2. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
6-4	Develop a Vehicle & Equipment Maintenance Policy	Nahant Department of Public Works Supervisor	<p>Fall '04 (Revise date to Fall '05)</p> <ul style="list-style-type: none"> Develop and implement a vehicle and equipment maintenance policy and incorporate policy requirements into the DPW employee-training program. 	<i>No Activities to Report for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
			<i>Dates have been revised to correspond with the development of the Employee Training Manual (BMP 6-1)</i>		
6-5	Develop a Vehicle & Equipment Cleaning Policy	Nahant Department of Public Works	<p>Summer '03</p> <ul style="list-style-type: none"> Construct two new wash bays at the Flash Road facility. <p>Fall '04 (Revise date to Fall '05)</p> <ul style="list-style-type: none"> Develop and implement a vehicle and equipment cleaning policy. Incorporate policy requirements into the DPW employee-training manual and provide to the Town's Police Department and Fire Department. 	<p><i>No Activities to Report for Permit Year 2</i></p> <ul style="list-style-type: none"> As reported in the '03/04 Annual Report (permit year 1), the construction of two new wash bays at the Flash Road facility was completed in August 2003. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
Revised			<i>Dates have been revised to correspond with the development of the Employee Training Manual (BMP 6-1)</i>		

6-6	Develop a Landscape and Lawn Care Policy	Nahant Department of Public Works	<p>Fall '04 (Revise date to Fall '05)</p> <ul style="list-style-type: none"> Develop and implement a landscape and lawn care policy. <p>(Revise Measurable Goal)</p> <ul style="list-style-type: none"> Provide the policy to DPW staff and lawn care providers contracted by the DPW. Provide the policy to the Kelly Greens Golf Course management company. <p>(Delete this Measurable Goal)</p>	<ul style="list-style-type: none"> During Permit Year 2, the DPW staff and lawn care providers contracted by the DPW were instructed to use organic fertilizers for all landscape and lawn care activities. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
Revised		Nahant Golf Course Committee	<ul style="list-style-type: none"> Formalize the Town's landscape and lawn care policy. <p>Spring '05 – Winter '07/08</p> <ul style="list-style-type: none"> One to five times a year the Town's Golf Course Committee will meet with golf course management to review various maintenance practices that include the landscape and lawn care procedures. 		
6-7	Develop and Implement a SPRP for the Flash Road Facility	Nahant Department of Public Works	<p>Fall '05</p> <ul style="list-style-type: none"> Complete and implement the use of the Spill Prevention and Response Plan for the Flash Road facility. Identify and train key individuals in the area of spill prevention, response and cleanup. Develop an emergency spill containment and cleanup kit. Post a summary of the Spill Prevention and Response Plan at various locations throughout facility. Conduct an annual review of the Spill Prevention and Response Plan. Track the number of spill and leak incidents at the facility and the actions taken for each incident. 	<i>No Activities planned for Permit Year 2</i>	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.
6-8	Apply for Funding to Conduct Pollution Remediation Activities in Nahant Thicket Watershed	Nahant Town Administrator Massachusetts Audubon Society	<p>Summer '03</p> <ul style="list-style-type: none"> Apply to CZM by July 30, 2003 for CPR funding to implement the pollution remediation activities proposed in the Nahant Thicket watershed. <p>Spring '04 & Summer '04</p> <ul style="list-style-type: none"> If awarded funding for the CPR FY04 grant round, proceed with project implementation for completion by June 30, 2004. 	<ul style="list-style-type: none"> Funding to implement the pollution remediation activities proposed in the Nahant Thicket watershed were approved by CZM during Fall '03. Project was completed by July 2004. 	<i>No Activities planned beyond Permit Year 2</i>
6-9	Formalize the Bear Pond/Golf Course Drainage Ditch Maintenance Program	Nahant Department of Public Works	<p>Summer '04</p> <ul style="list-style-type: none"> Develop an operation and maintenance (O&M) plan for the Bear Pond pump station and 36-inch outfall. Track maintenance activities for the Bear Pond pump station and 36-inch outfall. Develop a formal Drainage Ditch Maintenance Program. <p>Summer '05</p> <ul style="list-style-type: none"> Apply to the Nahant Conservation Commission for an Order of Conditions every three years in order to conduct activities outlined in the Town's Formal Drainage Ditch Maintenance program. Track the scheduled maintenance activities of the Drainage Ditch Maintenance Program. 	<ul style="list-style-type: none"> Develop an operation and maintenance (O&M) plan for the Bear Pond pump station and 36-inch outfall. 	<ul style="list-style-type: none"> Activities to proceed as noted in the Measurable Goal's column.

6a. Additions

No additions to report.

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
7a. Additions					

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Nahant Board of Health regularly tests water at Canoe Beach, Tudor Beach, Short Beach and Black Rock Beach for Enterococci. A summary of these sampling results for FY04-FY05 has been attached.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
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)	

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		X		
▪ Post-Development Stormwater Management		X		

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	54
System-Wide mapping complete	(%)	50%
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	50%
▪ GIS	(%)	50%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	0
Illicit connections removed	(#)	0
	(est. gpd)	
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0%

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)	Biennially
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	Biennially
Total number of structures cleaned	(#)	150
Storm drain cleaned	(LF or mi.)	
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.)		
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	4 times/year
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Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	4 times/year
Qty. of sand/debris collected by sweeping	(lbs. or tons)	15 tons/year
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

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

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

**Geometric Mean
Beach Testing
FY04 - FY05**

Beach	Date	Enterococi	Geometric
Canoe	06/23/04	8	0
Canoe	06/30/04	<2	4
Canoe	07/07/04	71	10.43
Canoe	07/14/04	64	16.42
Canoe	07/21/04	34	18.99
Canoe	07/28/04	20	19.16
Canoe	08/04/04	<2	13.87
Canoe	08/11/04	<2	10.89
Canoe	08/18/04	48	12.84
Canoe	08/25/04	<2	10.66
Canoe	09/01/04	<2	9.16
Tudor	06/23/04	2	0
Tudor	06/30/04	77	12.41
Tudor	07/07/04	26	15.88
Tudor	07/14/04	31	18.77
Tudor	07/21/04	4	13.78
Tudor	07/28/04	43	16.66
Tudor	08/04/04	<2	12.3
Tudor	08/11/04	10	11.9
Tudor	08/18/04	38	13.63
Tudor	08/25/04	62	8.94
Tudor	09/01/04	12	15.46
Short	06/23/04	10	0
Short	06/30/04	2	4.47
Short	07/07/04	<2	3.42
Short	07/14/04	88	7.7
Short	07/21/04	<2	5.88
Short	07/28/04	71	8.91
Short	08/04/04	12	9.3
Short	08/11/04	16	9.95
Short	08/18/04	8	9.71
Short	08/25/04	2	8.29
Short	09/01/04	30	9.32
Black Rock	06/23/04	50	0
Black Rock	06/30/04	57	53.39
Black Rock	07/07/04	77	60.32
Black Rock	07/14/04	18	44.58
Black Rock	07/21/04	8	31.62
Black Rock	07/28/04	85	37.28
Black Rock	08/04/04	26	35.41
Black Rock	08/11/04	6	28.36
Black Rock	08/18/04	2	21.13
Black Rock	08/25/04	32	22.02
Black Rock	09/01/04	25	22.28

***Note: No single sample shall exceed 104 colonies per 100 ml.