

**Annual Storm Water Report
For Calendar Year 2007
For
Portsmouth, New Hampshire
EPA NPDES Permit Number: NHR041027**

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APR 30 2008



Submitted: May 1, 2008

2. The storm water management program must include a section describing how the program will control the discharge of the pollutants of concern and ensure that the discharges will not cause an instream exceedance of the water quality standards. This discussion must specifically identify control measures and BMPs that will collectively control the discharge of the pollutant(s) of concern. Pollutant(s) of concern refer to the pollutant identified as causing the impairment.

- Part I. D.
1. Determine whether the approved TMDL is for a pollutant likely to be found in storm water discharges from the MS4.
 2. Determine whether the TMDL includes a pollutant waste load allocation (WLA), BMP recommendations or other performance requirements for storm water discharges. This storm water WLA may be expressed in the TMDL as a gross allotment for the impaired water body.

The City remains committed to resolving whether these conditions have been met and believes that critical data is needed which would, among other things, help establish whether certain water bodies are in fact impaired and if so for which pollutants.

This is the fifth year operating and reporting under the City's first EPA issued storm water pollution prevention phase II permit. The City has made remarkable achievements towards the goals of its best management practices (BMPs). Compliance with these encompassing regulations and standards was a formidable task. The first year of the permit, the City worked aggressively to acquire resources and organize them into an effective program. When reviewing and analyzing the City's annual reports, it is best to bench mark where the City was and where the City stands today. With that in mind, the City has risen to the challenge of meeting the spirit of the intent of the storm water regulations. Some of the significant achievements, the City would like to highlight follows.

With regard to Public Education and Outreach, the first objective, one of the City's BMPs was to develop and distribute/post a minimum of 2,000 impressions annually. The City posted an average of 4,775 impressions annually. Still the City did more than just "hand out flyers". The City carefully considered what media and what message would effectively reach its residents. The City wisely used a variety of ways to reach its residents. For example, brochures were handed out to residents during household hazardous waste collection events; a booth with educational games was set up during summer fairs; commercials were aired on the government TV; and a video was developed and aired giving more details about storm water issues. The general public, school children, and City Council and personnel also were given presentations, which involved more than identifying the storm water pollution problems but also areas where individuals could become involved and part of the solution. Councilors usually were tasked to support initiatives toward correcting storm water pollution problems.

Public Involvement was very successful also. The City developed a Storm Water Master Plan, which involved wide participation of Portsmouth residents. Per the Master Plan and over the course of the 5-year permit, the Technical Advisory Committee began aggressively including storm water

pollution prevention into its activities, reviewing storm water conveyances and treatment systems as part of regularly scheduled site reviews and incorporating LID. Workshops, were hosted involving the public in City practices, such as the Mayor's Blue Ribbon Committee sustainable practices workshop, which incorporated water quality issues. The City worked in cooperation with neighboring communities, marinas, industry association, the State and an environmental lobby group to develop TMDL for Little Harbor and set measurable goals and timelines to reduce the bacteria loads.

With regard to IDDE, the City began mapping its storm water system prior to the permit being issued. The City completed mapping the system in the first year of the permit. The City continues to use the map as a tool to improve its storm water pollution prevention initiatives. For example, and the most apparent initiative, is to investigate illicit discharges but also enhancing the map to identify maintenance issues to further prevent storm water pollution. Further, in the last 5 years, the City has eliminated or removed over 53 illicit discharges. Through long term control plan projects, the City separated 5 miles of combined sewer overflow. The separation included 5 miles of new sanitary sewer and 3 miles of new storm drains. The City has purchased, at a cost of \$100,000, a new sewer line inspection truck, incorporating televising and digital recording equipment; and the City is in the process of acquiring an additional vactor truck for cleaning catch basins. Finally, after many drafts and reviews, the City passed a storm water ordinance and has revised its zoning and site review ordinances to address storm water pollution during and post construction. The latter two ordinances encompass issues inclusive but also farther reaching than solely storm water revisions. Therefore the process of making the changes is a bit more arduous. The revisions are in the approval process of the regulatory boards. The City anticipates these revisions being approved in 2008.

With regard to good housekeeping, the City, in cooperation with 10 other communities developed a Standard Operating Procedures Manual for municipal employees and conducted training in accord with these practices. Over 80 City employees have attended training and continue to attend refresher courses. The general awareness of storm water pollution issues throughout the City has significantly increased and has had a positive impact on how the City operates. The City is upgrading its Waste Water Treatment Plant to increase capacity, but is also incorporating sustainable practices. All of which lends itself toward water quality improvements. The City has created a system to identify critical catch basins for routine cleaning and to sweep the streets. The City has a campaign to educate residents to pick up their pet's waste and has set up an effective means of preventing pollution from snow removal operations.

In short, the City is pleased with the achievements accomplished with regard to storm water pollution prevention.

**2007 ANNUAL REPORT – YEAR 5 OF THE PERMIT
BEST MANAGEMENT PRACTICES OBJECTIVES & STATUS REPORT**

1. PUBLIC EDUCATION AND OUTREACH

The Permittee must implement a public education program to distribute educational material to the community. The public education program must provide information concerning the impact of storm water discharges on water bodies. It must address steps and/or activities that the public can take to reduce the pollutants in storm water runoff.

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
1.A. Develop and distribute/post a minimum of 2,000 impressions via print, local TV, local radio or other appropriate media <i>during the life of the permit.</i> DPW	Storm Water information on the web. # of hits.	September 2007 added "Identifying and Reporting Water Pollution" to website 3,261 visits were registered on the storm water website.	Continue to update storm water web page(s) to educate public on City initiatives, changing regulations and information residents need to know and will find useful.
	Produce and air on local TV a public service announcement/video on storm water and what the public can do to prevent storm water pollution impacts. (# of times video was aired.)	The video was aired on the gov TV an average of 92 times the first three years of the permit. In 2006 the video was aired on NH Public TV. No new opportunities presented to further air the video in 2007.	Because the information becomes common place to the viewer, no further airing scheduled in 2008
	Produce education material for distribution. # of pamphlets.	Distribute <i>The Solution to Storm Water Pollution</i> pamphlets at HHW Collection events and other appropriate events. Events held May '07 & October '07. A total of 390 cars, representing 536 households attended the events and received a pamphlet. These pamphlets are also in the reception area of DPW.	Continue to distribute storm water pollution prevention pamphlets at HHW events.

* Permit issued for 5 years. 2007 was the 5th year of the permit. 2008 permit requirements not yet stipulated by the EPA.

In the spirit of environmental protection, the City will continue to operate under the provisions of the previous permit.

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<p>1.A. Develop and distribute/post a minimum of 2,000 impressions via print, local TV, local radio or other appropriate media during the life of the permit.</p> <p>DPW</p>	<p>Produce education material for distribution. # of pamphlets.</p>	<p>2,250 households anonymously surveyed July and Aug of 2006 (distributed through the water bill). In 2007 results of the baseline survey analyzed.</p>	<p>Based on analysis of the survey results, messages will be crafted to target certain audience and provide information where there is a gap in general knowledge regarding stormwater pollution prevention.</p>
		<p>In 2007, Health Dept followed up their 2006 correspondence to 250 food service facilities regarding BMPs to keep fat, oils and grease out of sewer system, with educating facilities about the proper disposal of mop water and other cleaning effluent that has been traditionally dumped directly into storm drains.</p>	
		<p>November 2007, DPW gave a public forum presentation attended by 75 residents of Portsmouth and City Council members. Topic was with regard to the Waste Water Master Plan, which included a large component explaining storm water and combined sewer over flow. This presentation was also video taped and posted on the City's web site.</p>	
		<p>50 signs posted throughout the City advising dog owners to pick up their pet's waste.</p>	
		<p>Article in Sunday Herald June 2007, in A section of newspaper, <i>Pease brook with big reach undergoes cleanup, Volunteers sought for water quality improvement project.</i></p>	

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>1.B. Educate local residents participating in local government; groups; organizations.</p> <p>DPW</p>	<p># of public events storm water issues are presented and # of attendees.</p>	<p>Storm Water presentation given at Planning Board meeting, Jan 18, 2007. Presented to a board of 9 members and aired live on the government channel with a potential for airing again. Estimate minimum of 2,000 viewers.</p>	<p>Will continue to make presentations as opportunities present, i.e. Sustainability Fair April 2008.</p> <p>Quarterly reports to City Council regarding "Interim Measures" of the waste waster master plan, which includes storm water quality issues.</p>
		<p>DPW employee presented at the June 2007 Spring Water Environment Assoc Meeting with a panel of experts (a rep from UNH, and a rep EPA) regarding recent developments in storm water management and means of compliance. Approx. 40 people in attendance.</p>	
		<p>June 2007 DPW and Water Guardians of NH set up a booth at the Market Square Day event providing demonstrations and other educational information regarding storm water, ground water and recycling. 80,000 people in attendance at the event, including the road race and festival activities.</p>	
		<p>November 2007 DPW Civil Engineer for WWTP gave presentation to the public, at the City Library, regarding waste water master plan, which included a large component explaining storm water, waste water, and combined sewers. This presentation was replayed on the City web page.</p>	

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<p>1. C. Educate the general public and public school children about the storm water / sewer system, so that they understand the town water management systems and pollution issues</p> <p>DPW</p>	# of presentation and # of attendees.	<p>Goal was for DPW to create a storm water program to take to the public schools and letters to be sent to each school's principal inviting them to take advantage of the free demonstration. Challenges remain in standardizing a presentation which all teachers can embrace. However, City continues to consider means for developing this program. In the meantime, DPW personnel presented at the NH Science Teachers Association Meeting October '07. Approx 20 teachers in attendance.</p>	<p>DPW employee to present at the High School, during Science day (April 22) regarding sustainability, recycling and storm water pollution prevention.</p>
		<p>Life Wise/Water Guardian presentation given:</p> <p>Dondero School, during the school's Science Fair event 90 students in attendance.</p> <p>Little Harbor School, 67 students attended.</p> <p>3X Portsmouth Middle School, 110 students total attended.</p> <p>Dover Point Aug 2007. In addition to school children in attendance from the Kids Stripper Fishing event, several commercial fishermen were present</p>	
		<p>A storm water educational "sound - bite" was included in e-newsletter in Jan 2007. Distribution list includes 1,500 email addresses.</p>	<p>Continue to include storm water information in e-newsletter and web.</p>

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>1.D. Collaborate with public and private entities to maximize efforts of reducing contaminants from Portsmouth waterways.</p> <p>City Hall</p>	<p># of initiatives the City either leads, supports, is involved with or has an employee acting as a representative on a committee ensuring the inclusion/addressing of storm water issues. Either bringing the information to the forum or obtaining information for the benefit of the City and/or City projects.</p>	<p>Peter Britz, employee of the Planning Dept at City Hall, serves as a member on the Hodgson Brook Watershed Advisory Board meeting quarterly throughout the year. Primary objectives of the Board is restoration efforts; water quality monitoring; in-put to projects on the Hodgson Brook Watershed; implement restoration projects. Peter Britz continues to be on the Board and support their efforts.</p> <p>In 2007 with regard to redeveloping the Meadow Brook Inn at the Portsmouth traffic circle, there were 3 meetings w/ the Conservation Commission and Developers; and 3 meetings w/ the Planning Board to incorporate LID into the project design. LID include gravel wetlands and innovative engineered stormwater treatment, underground stormwater detention infiltration and enhanced restoration of wetlands buffer.</p>	<p>Project to go before the City's Planning Board for final approval. Project approved February 21, 2008. Project to begin Spring/Summer 2008.</p>
		<p>Coordinated effort between the City and the Blue Ocean Society to clean litter on Pierce Island. Once a month, throughout the year, volunteers organized and took part in cleaning debris on Pierce Island. Specific items of waste were categorized and a substantial amount of liter was removed from the area and kept out of City storm drains and open water bodies.</p>	<p>Continue assisting in clean-up activities @ key locations throughout the City.</p>

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>1.D. Collaborate with public and private entities to maximize efforts of reducing contaminants from Portsmouth waterways.</p> <p>City Hall</p>	<p># of initiatives the City either leads, supports, is involved with or has an employee acting as a representative on a committee ensuring the inclusion/addressing of storm water issues. Either bringing the information to the forum or obtaining information for the benefit of the City and/or City projects.</p>	<p>Coordinated effort between the City and Life Share Community clean-up project at South Mill Pond:</p> <p>Jan 4 Feb 2 March 5 April 4 May 4 June 4 July 5 Aug 3 Oct 5 Nov 5 Dec 5</p>	
		<p>Deputy Director is a member of the UNH CSTEVE Board, whose function is to review the application and results of current storm water pollution prevention technology. The Board consists of industry reps, state and federal regulators, academic scientists and engineers, and local gov officials. The Board met twice in '07. Data from UNH Storm Water Center project was collected from Sept 2004 to present with an annual report published and distributed in 2007.</p>	<p>Continue to have dialog with CSTEVE and additional developments of their storm water project, in order to keep abreast of latest technology; most effective means; consider applications throughout Portsmouth.</p>

2. PUBLIC INVOLVEMENT AND PARTICIPATION

The Permittee must provide opportunity for the public to participate in the development, implementation and reviews of storm water management program(s).

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>2.A. The City will involve stakeholder groups, including local governments, businesses, and citizens in making decisions about storm water management priorities and programs throughout the City.</p> <p>City Hall/DPW</p>	<p>Develop the storm-water pollution prevention programs and City ordinance.</p>	<p>The City completed the <i>City Master Plan</i> Feb 2005, which involved wide participation of Portsmouth residents. As a result, the City Master Plan delegates that the Technical Advisory Committee (TAC) actively review storm water conveyances and treatment systems as part of the regularly scheduled meetings for site review. TAC will continue to include storm water in site reviews.</p> <p>2006 the City hired a consulting firm to conduct a review of the City's storm water programs in conjunction with review of the Existing Site Plan, Subdivision and Zoning ordinances. The Storm Water Master Plan, (task 4) section E provides recommendations where changes should be made and details where existing ordinances already address requirements from storm water regulations.</p> <p>A Storm Water ordinance was drafted in 2005. Several revisions were made. A final draft of the storm water ordinance was presented to City Council Summer '07. Three public readings were held. Ordinance passed Oct 15, 2007.</p>	<p>Finalize amendments to Zoning and Site Review Regs, that include stormwater pollution prevention at construction and post construction sites.</p>

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>2.A. The City will involve stakeholder groups, including local governments, businesses, and citizens in making decisions about storm water management priorities and programs throughout the City.</p> <p>City Hall/DPW</p>	<p>Annual presentation to City Council on storm water issues. Presentations will be made during official meetings, which are open to public attendance and televised on the gov. TV.</p>	<p>3 presentations and public readings were held before the City Council as part of the storm water ordinance adoption.</p>	<p>Quarterly updates to City Council regarding the waste water master plan "Interim Measures", which includes storm water quality issues.</p>
	<p>Collaborate with public and private entities to increase awareness, as well as improve on design and implementation of storm water treatment issues related to building and site development design and construction throughout the City.</p>	<p>DPW and City Hall staff are trained and familiar with storm water issues. 4 DPW employees and 2 City Hall employees are representatives on the Technical Advisory Committee (TAC). TAC is responsible to review plans and make recommendations to the Planning Board; recommendations include appropriate storm water features. TAC met 12 times in 2007.</p>	<p>TAC to meet once a month.</p>
		<p>In June, United Way Day of Caring, employees of Wentworth-Douglas Hospital, DES and North Mill Pond Advocates removed more than 35 bags of litter/waste.</p>	
		<p>City hosted workshop for Mayor's Blue Ribbon Committee on sustainable practices in April and another workshop for the Community in May. Both presentations included aspects of water quality, and storm water pollution prevention.</p>	
		<p>Public presentation given Jan 2007 at Planning Board meeting regarding changes recommended to Zoning, Subdivision and Site Review Regs to include storm water. Presented live and on gov tv to a board of 9 members. Presentation video taped and posted on the gov website.</p>	
		<p>City, as a stakeholder and through the Seacoast Stormwater Coalition, supported State legislature HB 1581, that allows municipalities to establish a storm water fee, if needed/desired.</p>	

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
3.C. Establish legal authority for enforcement actions. City Hall	Update Plumbing Code to include storm water pollution prevention.	Plumbing Code updated to assist with reducing FOG – fats, oils and grease – problems. Also creation of an Appendix to reference all requirements related to food service, for example hot water requirements under water heaters to have a cross reference to grease traps; a cross reference for dishwater discharge and indirect waste on food prep in sinks, etc.	

4. CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

The Permittee must develop, implement and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction activities that result in a land disturbance greater than or equal to 1 acre.

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
4.A. Establish a set of minimum erosion and sediment control (ESC) requirements for construction sites. City Hall / DPW	Require ESC plans for any land disturbance greater than 5,000 square feet.	Storm Water Master Plan was completed May 2007. Task 4 of the Plan included recommendations to the Zoning and Site Review City Regulations to include aspects of Storm Water Pollution Prevention for the construction and post construction site requirements.	The Site Review regs are built upon the Zoning ord., which is being reviewed. The Planning Board and Planning Dept. will complete review of Zoning ord. Final adoption of updated regs will be completed after adoption of updated Zoning ord. Fall 2008.
	Site Review procedures to include storm water pollution prevention activities. All procedures at the Planning dept to involve storm water activities site review on any level.	AutoCAD files 35% complete	Continue work on developing AutoCAD files.
	Create AutoCAD files, which will detail the standards for erosion control. Enforce new ordinance.	The Site Review regs, which are built upon the Zoning ord., address storm water pollution prevention at construction sites. Both Site review regs and zoning ordinance are under review. In the meantime, at TAC meetings, the City may require an independent consulting engineer to inspect construction sites during a project. "Deemed necessary" is based upon the complexity, size of project and other variables discussed during the TAC meeting.	The Planning Board and Planning Dept. will complete review of Zoning ord. Final adoption of updated regs will be completed after adoption of updated Zoning ord. Fall 2008.

5. POST-CONSTRUCTION RUNOFF CONTROL

The Permittee must develop, implement and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than 1 acre and discharge into the municipal system.

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>5. A. Improve the quality of storm water runoff by disconnecting impervious surfaces and installing and maintaining structural storm water controls.</p> <p>DPW</p>	<p># of structural controls installed.</p>	<p>Since the inception of the Storm Water Phase II permitting the City has installed a total of 5 stormwater treatment devices. In 2007 they were inspected 2 times each. They contained some debris and floatables. They were cleaned of floating debris on top but sediment was not removed –as per parameters described in the maintenance manual.</p>	<p>Continue inspection, maintenance and cleaning of the units.</p> <p>Intent was to install a stormwater treatment device on Bartlett St in 2007. Total design, construction and installation cost \$86,178.22. Project is moving forward, pending announcement of easement rights to property.</p> <p>Waste Water Master Plan “Interim Measures” will include review of options that can be implemented by the City in the next 5 years.</p>
	<p># of conventional BMPs, such as swales and retention ponds, low impact development (LID) designs and manufactured BMPs such as filtration and infiltration units and hydrodynamic separators.</p>	<p>Through '07 construction season installed 23 catch basins (18 3'-sumps and 8 2'-sumps) in the New Castle Avenue construction project.</p>	
		<p>Rt 33 project in design completed in '07</p>	<p>Construction to begin in '08. Two year project, anticipate completion end of '09.</p>

6. GOOD HOUSEKEEPING

The Permittee must develop and implement a program with a goal of preventing and/or reducing pollutant runoff from municipal operations. The program must include an employee training component, including, at a minimum, maintenance activities for parks and open space, fleet and building maintenance, new construction roadway drainage and storm water system maintenance. During the implementation of the storm water management program, the Permittee must address recharge and infiltration for the minimum control measures as well as reasons for not implementing.

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
<p>6. A. Reduce the amount of nutrients and sediments entering receiving waters through education of municipal employees about spill prevention and control, vehicle washing, lawn activities, etc.</p> <p>DPW</p>	<p>Create and publish a Manual for NH communities to standardize best management practices and procedures for IDDE, pollution prevention and good housekeeping. Train storm water managers and labor force against these standards.</p>	<p>The City of Portsmouth/Seacoast Coalition obtained state grant money to fund the development of BMPs and SOPs best suited NH communities in meeting the IDDE, pollution prevention and good housekeeping requirements.</p> <p>Procedures developed in 2006. Numerous meetings held b/w the Seacoast Coalition reps as well as workforce providing input to improve the Manual in application and practicality.</p> <p>The Manual was approved by the State and produced November 2006. The Manual is available on the web: www.des.state.nh.us/stormwater/NH_IDDE_SOP.pdf</p> <p>Between May 2007 and October 2007, 220 employees were trained in procedure detailed in the above Manual. Collectively this has a positive effect in 18 communities throughout the seacoast area.</p> <p>IDDE Workshop held May 1 & 24, 2007, 40 employees were trained in IDDE, sampling, prioritizing, understanding the 303 (d) list and prioritizing and targeting water sheds/bodies.</p>	

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<p>6. A. Reduce the amount of nutrients and sediments entering receiving waters through education of municipal employees about spill prevention and control, vehicle washing, lawn activities, etc.</p> <p>DPW</p>	<p># of in-house training sessions held and number of attendees.</p>	<p>May 1 & 24, 2007 IDDE Workshop - 9 employees from Portsmouth attended.</p> <p>June 4, 2007 Phase II MS4 Permits – 4 Portsmouth employees attended, including Portsmouth employee presenting.</p> <p>June 21, 2007 Pollution Prevention & Good Housekeeping Workshop – 47 employees from Portsmouth attended.</p> <p>July 11, 2007 IDDE 201 Field and Lab Methods – 1 Portsmouth employee attended.</p> <p>Sept 20, 2007 Protecting Water Resources – A Regional View of Stormwater in NE – 1 employee from Portsmouth attended.</p> <p>Nov 7, 2007 Government Regs and Designing Solutions for Slopes and Channels – 11 Portsmouth employees attended.</p>	
<p>6. B. Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.</p>	<p>Storm/Sanitary Sewer Separation Quantify separation of sewers.</p>	<p>Contract II, Lincoln Ave sewer separation project completed.</p> <p>Miller Ave sewer separation project – no progress in '07</p> <p>Bartlett St. intersection sewer separation designed. Easement rights need to be procured before construction can begin. A number of easements have been obtained.</p> <p>New Castle Ave sea wall project complete. Failing rock wall was allowing sediment into back channel – wall was replaced with new precast concrete wall in '07.</p>	<p>Design and proposals for Miller Ave sewer separation to go out.</p> <p>A portion of easements remain outstanding. Objective is to obtain final easements and move forward on project.</p>

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6. B. Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.	Upgrades to Sewage Pump Stations	<p>Increased pumping and treatment of sewage Improvements include:</p> <ul style="list-style-type: none"> ♦ Deer St up-grades began '06 and finished in '07 ♦ Rye line pump station design completed. ♦ Mechanic St pump station control up grades to improve reliability. Bid and awarded project in '07 	<ul style="list-style-type: none"> ♦ Begin Rye line construction ♦ Mechanic St pump station control up grades to improve reliability to begin construction in '08.
	City to identify critical catch basins and frequency for cleaning.	<p>The City hired consultants to develop a Storm Water Master Plan. Part of the project included developing an Ops & Maintenance Plan.</p> <p>Starting April 2007, an average of 3X per month an employee with the vac truck dispatched to critical areas to clean/repair catch basins.</p>	<p>A new/second Vactor truck to be purchased, which will allow more frequent storm drain cleaning.</p> <p>Based on field observations and conditions of the storm water system a list of identified critical basins for regular cleaning will be developed and every basin will be cleaned within a 5-year cycle.</p>
	Miles of City streets swept.	<p>Daily street sweeping of areas identified as significant litter/pollution areas. 6 days /week street sweeping of the business/tourist district commencing in the Spring through the Fall.</p> <p>Once a year, after Winter ops concluded, the following identified neighborhoods are swept: Maplehaven, South end, Jones Ave, Dennet St., Middle St., Borthwick Ave, Woodbury Ave, Panaway Area, the Heights, Essex Ave area, Elwyn Park.</p>	Continue street sweeping.

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6. B. Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.	Reduce the amount of salt/sand being used in the winter to the minimum necessary amount.	The City eliminated the use of sand in 2005.	
	# Signs posted and/or educational material throughout City regarding storm water pollution prevention.	<p>In 2006: 50 signs are posted throughout the City, at every play ground, ball field, park and walking path in the City encouraging dog owners to pick up animal waste.</p> <p>2 Bio-degradable doggie bags dispensers, one each located at Pierce Island and Goodwin Park, to facilitate dog owners walking their dog to pick up their pet's waste.</p> <p>A bio-degradable doggie bag dispenser and trash receptacle is located at the dog park.</p> <p>In 2007: Improvements made to the dog park: regarding of the existing surface; new rounded stone surface; removal of dead trees all will provide a more efficient pervious surface. Rain water and snow melt will sheet flow to a grassy area adjacent to the dog park for natural filtration.</p> <p>Additional signs posted re pick up pet waste at Pierce Island, Goodwin Park and Carter Park to compliment the dog waste bag dispensers.</p> <p>Storm Water Pollution Prevention signs posted at DPW (Hwy & Water/Sewer break rooms).</p>	

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6. B. Reduce the amount of nutrients and sediments entering receiving waters through mechanical and operational means.	Implement BMPs at snow disposal collection site.	<p>Winter 2004/2005 a site was designated for temporary storage of snow pursuant to the snow removal ops. The area is enclosed with silt fence; disposed snow is stored at least 25' from high water mark; debris in snow storage area to be cleared prior to snow storage; all subsequent debris accumulated in snow storage area cleaned from site and properly disposed of no later than May 15th.</p> <p>There are no wells at the snow storage collection site.</p>	Continue maintaining the site and using for snow disposal.											
	City to incorporate storm water treatment units in long term control plan/separation project.	Design of Bartlett Street project complete. Design included storm water treatment unit and deep sump catch basins. Easement rights need to be procured in order to move forward with the project. A portion of easement rights have been obtained.	Pending receipt of all easement rights, begin construction on Bartlett St project.											
	Number of activities the DPW coordinates or conducts to clean up public lands of debris around sensitive watersheds.	<p>Coordinated effort between the City and the Blue Ocean Society to clean litter on Pierce Island. Once a month, throughout the year, volunteers organized and took part in cleaning debris on Pierce Island. Specific items of waste were categorized and a substantial amount of liter was removed from the area and kept out of City storm drains and open water bodies.</p> <p>Coordinated effort between the City and Life Share Community clean-up project at South Mill Pond:</p> <table border="0"> <tr> <td>Jan 4</td> <td>June 4</td> </tr> <tr> <td>Feb 2</td> <td>July 5</td> </tr> <tr> <td>March 5</td> <td>Aug 3</td> </tr> <tr> <td>April 4</td> <td>Oct 5</td> </tr> <tr> <td>May 4</td> <td>Nov 5</td> </tr> <tr> <td></td> <td>Dec 5</td> </tr> </table>	Jan 4	June 4	Feb 2	July 5	March 5	Aug 3	April 4	Oct 5	May 4	Nov 5		Dec 5
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May 4	Nov 5													
	Dec 5													

BMP / ID Responsible Party	Measurable Goal	Progress on Goal(s) Permit Year 5	Planned Activity for calendar year 2008*
6. C. Reduce the amount of hazardous waste being disposed of inappropriately through programs/services, education of municipal employees and local residents.	i. The number of household hazardous waste collection events and the volume (i.e gallons) of household hazardous waste disposed (in accord with hazardous waste regs and diverted from the landfill).	Events held May '07 & October '07 – 180 cars and 210 cars, respectively; representing a total of 536 households attended the events and over 12,000 gals of hazwaste collected.	Two Household Hazardous Waste Collections scheduled for 2008.

APR 30 2008