

3/30/09

Municipality/Organization: Town of Amherst, NH

EPA NPDES Permit Number: NHR41001

MaDEP Transmittal Number:

Annual Report Number

& Reporting Period: No. 5: March 03-May 09

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Bruce W. Berry

Title: Director of Public Works

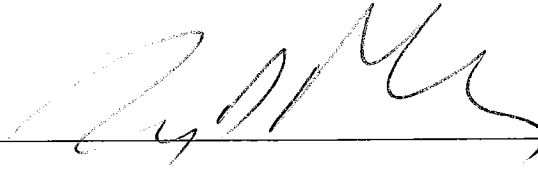
Telephone #: (603) 673-2317 X 204

Email: bberry@amherstnh.gov

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:



Printed Name: Gary MacGuire

Title: Town Administrator

Date:

3-26-09

Part II. Self-Assessment

II, (a) 2004 - The Town of Amherst has had a slow start addressing the requirements of Storm Water II. The first initial year was spent attending meetings. We are committed to these requirements and regulations and I was delighted to find during the review phase by our consulting engineers that information we unintentionally included educational information addressing Stormwater II. We have a long ways to go and we will stay the course. Limited volume timetable submitted in our permit package is doable. We anticipate a local cable channel to be up and running by summer of 2004. This will be a great asset.

2005- Very active Stormwater II committee meets monthly. Our chairperson has posted many Stormwater II links to the town web page.

2006- Committee chairperson has authored a number of articles for our local newspaper covering such topics as the sins of vehicle washing, oil changes, etc.

2007 - After meetings with Town Attorney, and soliciting public input, Amherst's Stormwater Regulation was adopted by both the Board of Health and the Board of Selectmen.

2008 - The committee continues to educate both residents and contractors through printed articles and the town's community access channel and website.

2009 - Stormwater interns developed an educational Stormwater brochure, checked all GPS mapping of culverts, catch basins, and outfalls. Conducted inspections for illicit discharges.

II, (b) Best Management Practices are under review by our Planning Board. More time is required to determine appropriate necessary actions and areas for improvement.

2004 - In house improvements on town winter maintenance equipment such as groundspeed controls, liquid calcium systems (that lower the melting point of snow and ice) and temperature sensing equipment mounted on vehicles, all for more appropriate winter maintenance with a goal towards less pollution by winter maintenance.

2005 -We continue to educate our Planning board on the necessity to formulate rules and regulations. Public Works is in its second year using a liquid calcium system. Authorized purchase of a second liquid deicing system for the 05-06 budget cycle.

2006 - In conjunction with school and civic groups the town has assisted in roadside cleanups. Voters approved a salt/sand storage facility which will improve street sweeping and catch basin cleaning. DPW inspects erosion control systems for new public and private road construction. The Town of Amherst is overseeing fertilizer and pesticide controls for the town and three school districts. We are assisted with soil analysis at the University of New Hampshire. A new program adding as many as twenty additional users to the eleven already on the system. Interns completed mapping outfalls and receiving water bodies.

2007 - Public Works is in its fourth year of magnesium chloride/leftover mash of alcohol distilleries, the area of use has been widened. We are improving/ minimizes salt usage below 20 degrees) systems and five spreader trucks with groundspeed controls. Two replacement trucks approved. Bringing the total to nine. Almost every winter maintenance vehicle is now equipped with ground/air temperature sensing equipment. Additional street sweeping thus reducing wasted sand pollution into fish spawning areas. During the previous late summer, interns developed, designed, and installed a new system for salt storage.

2008 - The town approved a road repair budget increase sufficiently to place DPW on a ten year road maintenance schedule. Proper horizontal alignment of roads. Cleaning catch basins and removing winter sand from roads is supported and continues. Summer activities for our interns will include road maintenance.

2009 - All catchbasins were cleaned the previous summer and a portion of roads were swept. The 2008-09 winter we switched from liquid calcium to a new system.

II, (c) Achieving our first year goals, became more challenging while trying to understand the process. This will impact our five year plan and necessitates a reevaluation of the Zoning and Planning Department work. The town is going through a reevaluation of the Zoning and Planning Department work plan compliance and review and support Stormwater Phase II.

2005 - The process of developing and implementing rules and regulations covering pre and post construction activities are going a little slower than anticipated. This is their number one priority for the upcoming year.

2006 – Stormwater II ordinance is going through legal review. During review, new construction plans are looked at for the following information, Stormwater Management Plan, Site Specific Plan, Stormwater Pollution Prevention Plan, and Notice of Intent filing. They are returned if the information is not included. Once the site plan is adopted by the Planning Board (with plan notations) enforcement becomes easier.

2007 – Stormwater regulations were adopted by the Amherst Planning Board, Board of Health, and Board of Selectmen.

2008 – The economy has slowed new construction; however we continue to educate contractors in the requirements of our Stormwater Regulation.

Through the winter months, the Nashua Regional Planning Commission (NRPC) has in conjunction with area school districts developed a Stormwater education module. The goal is to incorporate this into the school curriculum.

The Town of Amherst is participating in a NHDES Source Water Protection Grant Project awarded to Pennichuck Water Works for the Stump Pond Brook area.

2009 – At the completion of the first five years, we believe we have met the goals set forth.

II, (d) We continue to collect data on our catch basins during annual cleaning. Illicit connections will be sought and properly documented during the on paper documentation of the position of culverts and catch basins.

2005 - Plans are to hire a summer intern dedicated to documentation of culverts, catch basins, and outfalls.

2006 – As discussed in II-b above, two summer interns mapped culvert locations and flow directions. This year we will follow up with dry weather screening, illicit discharges etc.

2007 – Data collected last year was recorded and put in report form. Ten suspected dry weather screening and illicit discharges were tested and were ruled out and recorded as non-threatening.

2008 – Summer interns will continue dry weather screening through the summer of 2008

2009 – Last summer’s interns will return and while the new permit goes through its final review, they will start on the more generic requirements.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	(Reliance on non-municipal partners indicated, if any)	Progress on Goal(s) – Permit Year 1	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
1.1	Education signage at voting	Public Works	4’X4’ information poster display for town voting.		Broader base of assistance	Two years of posting similar information yielded minimal interest. The committee plans to readjust our approach by utilizing other group settings	Voter information was restricted by town Moderator information continues to flow at information booths set up at other town events. A report was filed in Town Report	Information was disseminated in conjunction with other information by the conservation commission at their Information table at the Town Forth of July Celebration	Volunteers staff booths at town events.	Volunteers continue to staff booths at town events.
Revised	Education booth at 4 th of July festivities	Stormwater II committee	Brochures							Town staff are working with the town of Merrimack and Pennichuck Water to educate citizens around Stump Pond
1.2	Information posting on town web page	Public Works Director	Develop and update progress on town managed road construction projects	Actual posting of information on the town webpage completed by outside source.	Update with new and additional information. Investigate and implement, dedicated page on town website to stormwater	Continued research by our Stormwater Committee Chairperson to our web designer has generated quite a few links	Stormwater Committee Chairperson supplies our webmaster with information on a regular basis. Pet waste and water pollution	New Stormwater information n the Town website is added as often as possible	www.amherstnh.gov/StormWater/floods.html and review the various titles.	Information is posted on town webpage (see year 5).
Revised	Update as time allows	2005-Stormwater II Committee	Electronic exposure through education				Amherst DPW tries new snow and ice removal technology, explaining deicing spray program			

1.3	General Education Brochure	Public Works & Education Committee	Develop and distribute to residents in 04-05	This is in progress now, the committee is working through a lot of information, and brochures will be developed and disbursed.	Handout brochures initially	Some brochures built out of reprints from news articles written about drinking water and Stormwater runoff related issues, earth day, voting, events on the town common	Education brochures continue to be available for distribution at several town locations	Education brochures continue to be available for distribution at several town locations including the Department of Public Works and Town Hall	Educational brochures and the town ordinance are available to residents and contractors at several town locations.	Stormwater interns developed a new brochure in Jan 2009
1.4	Disburse Information to local contractors	Public Works Director and Land Use Manager	Educate private contractors in the importance of compliance	Verbal education at this point with compliance built into site plan review and follow-up with on site inspections.	Development and printing of formal education brochure designed for contractors with issuance at initial inquiry meeting.	Still working on development of brochure for contractors	Information is distributed during site plan review	Plans are to produce educational information about the Stormwater Regulation for dispersal as soon as possible	The ordinance is available to contractors both at the Amherst Town Hall and the Department of Public Works	Information is distributed during site plan review.
1.5	Coordinate information and program distribution within school network	Public Works Director, Conservation Commission	Develop curriculum to educate students. Fall / winter 04-05	Integrate into program currently presented to grammar school students on solid waste.	Begin to develop curriculum to be used to educate students.	Excellent volunteer program in place centered around earth day. First grade- awareness of reusable 2nd Grade- the rotten truth about landfills. 3 rd Grade, renewable and non-renewable resources.	Yearly, Peabody Mill Environmental Center works on this with younger children	Pollution information continues to be part of the curriculum; expansion through the Nashua Regional Planning Commission is being explored.	The Nashua Regional Planning Commission has taking the lead in developing Stormwater school curriculum. Town of Amherst financially supports the development of through a stipend.	The Town of Amherst supports through a stipend, the school education component developed by the Nashua Regional Planning commission.
Revised										

1a. Additions

1.6	Transfer Station waste stream management	Public Works Director and Solid Waste Committee	Improve facility and educate taxpayers			Household Hazardous Waste information is posted on the town web page and the Solid Waste Committee is working towards streamlining the facility	Facility renovations have been turned down by the voters for the second year in a row (lost by 7 votes) recycling continues at current levels. Plans are already underway by Solid Waste Task Force for next year.	The Amherst Solid Waste committee had increased its education efforts and recycling has increased. Renovations were approved by the voters this year, funds will be available in July and ground may break as early as October 2007. This is expected to further increase recycling	Amherst recycling has expanded to include glass and mixed paper. Last year we experienced a reduction in trash tonnage. Amherst DPW expects to break ground on facility renovations this spring.	The town completely merged its recycling and trash into “one stop dropping”. Citizens now do everything within a 140 ft area.
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1.7	Series of articles written for Amherst Citizen. After being published the articles are posted on the town website	Committee Chair	Educate residents		April 13, 2004 Earth Day Articles June 8th Lawn Pesticides and Water Pollution July 27th Buying an Using Pesticides, Read the Fine Print Sept 14 Reduce Lawn Fertilizer Use	January 11 th Safe Winter Driving on Limited Salt Use Roads Jan 14 th Brush Up on your Winter Driving Skills. Feb 8 th Article on commercial car wash verses washing in the yard.	Amherst General Quarterly 12/05 ➤ EPA Stormwater Requirements for Amherst a basic overview ➤ What's our trash problem ➤ Earth machines compost bins available ➤ Recycling articles ➤ The Importance of Recycling ➤ Recycling Trends ➤ Amherst Trash, Resource, Recovering & Recycling Amherst Citizen ➤ Pet waste and water pollution ➤ Safe winter driving on Limited salt use roads. ➤ Every day is earth day in Amherst –litter pickup	Amherst General Quarterly March 2007 ➤ Passage and implementation of the Stormwater Regulation ➤ Services offered by the Transfer station, benefits of improving the station ➤ There are articles in each Quarterly about Stormwater, Recycling, and other environmental issues 2006 Town Report ➤ Summary of the yearly activities for Stormwater II Committee and the Recycling and Solid Waste Task Force Amherst Citizen 11 April 2007 ➤ Household Hazardous Waste Season kicks off	Amherst Stormwater Phase II web site ➤ Floods ➤ Lawn care ➤ Gardening ➤ Pesticides ➤ Fertilizer ➤ Limited salt ➤ Roads ➤ Washing Cars ➤ Pet Waste ➤ Snow & Ice Conservation Commission information rack at Town Hall ➤ Fact Sheets on related topics like septic systems, wells, IPM and low chemical gardens and lawns 2007 Town Report ➤ Summary of the previous years Stormwater activities ➤ Summary of Solid Waste activities	Amherst Stormwater Phase II web site. Conservation Commission information rack at Town Hall 2008 & 2009 Town Reports
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2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Initial Progress on Goal(s)	Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
2.1	Stormwater Advisory Committee	Public Works Director and Road commissioners	Review and recommend improvements to SWMP	We are reviewing the initial report and are working on recommended improvements.	Submit recommended improvements to Conservation Commission and Planning Board for comments and feedback. Review, revise, and implement	Stormwater committee meets monthly, has started identifying areas of responsibility, will oversee activities of summer intern.	Committee worked with CLD Engineering to develop a Stormwater ordinance. It is going through legal review and we anticipate implementation later this year	After the Committee met and reviewed the Regulation, the Committee finalized our Stormwater Regulation presented it for adoption by the appropriate Boards		The committee monitored progress through the final permit year.
Revised 10/04										
2.2	Removal of potential septic hazards from Baboosic Lake	Town Administrator and Health Department	Move failed septic systems from selected summer homes to community septic system	Approval by town after public hearings, approval of additional outside	Measure improvements to water quality, and seek expansion of program.	With the cooperation of New Hampshire Department Environmental Services the main leaching fields are in place. Force mains for 12 individual homes will be completed by fall of 2005. State DES approval for	Town vote approved funds for Phase II which is already under design. We anticipate construction to start in the Fall	Phase II is out to bid, and town vote approved Phase III.	Nine homes, four of which are classified Tier 1, are connected as part of Phase 11. Thirteen Tier 1 homes are identified as part of Phase III. As soon as the contract	Phase III was completed during the summer of 2008 bringing 35 homes on board. In March 2009, Amherst residents voted to fund engineering for phase IV.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Permit Year 1 Progress Activities	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
3.1	Identify and map outfalls and receiving waters	Public Works & Pennichuck Water Works	Map all outfalls using a footage measuring devise and transpose onto map. Review information supplied by Pennichuck	All culverts and catch basins were marked with reflectors and delineator posts during fall 03. Additional DPW summer staff will start recording footage and relevant information and transpose it into data base and onto town tax map.	Continue measuring and mapping program	In cooperation with University of New Hampshire one or two interns with computer and mapping skills should be on board by end of May.	Two interns located outfalls and flow direction within the Stormwater area. Coordinates were marked by GPS and imposed on a map.	Culverts, catch basins, and outfalls will continue to be monitored, reviewed, and verified.	We believe we have met this goal. However, this summer's intern team will verify coordinates and culvert locations.	Interns rechecked GPS coordinates for culverts, outfalls, and rechecked mapping, developed GIS showing locations
Revised			Actual stenciling has not started yet, we plan it to start in summer 04							
3.2	Dry weather screening of outfalls for illicit connections	Public Works	Screen all outfalls by Fall of 06	Continue field screening of outfalls concurrent with footage mapping by summer staff	Continue field screening of outfalls with measuring and mapping investigate any inappropriate findings for follow-up.	Continue screening, outfall and illicit connection training is scheduled for all Public Works employees this spring.	Interns will perform dry weather screening this summer	Nothing was found additional screening will be done this summer as needed.	Dry weather screening has yet to disclose any inappropriate findings. We will continue to investigate.	Amherst only has 35 homes on community septic and very few culvert and catch basin connections. The few that we have, have been reviewed. Dry weather screening completed during August 2008 no discharges detected
Revised										
3.3	Illicit connection information	Planning Board	Bring information to the attention of Planning Board	Partner with the Amherst Planning Board with documented illicit connection discharges to formulate ordinance	Follow through with necessary ordinance to 05 town meeting approval.	Stormwater committee is still working on ordinance information for presentation to Planning Board	Some connections were identified during outfall mapping, follow-up with inspections will continue this summer	Water was tested in ten locations for Total Coliform and E. coli, all came back negative. Additional testing will be done as needed	We have not had negative findings but testing will continue as needed.	The town has limited community septic (less then 5 years old) and almost all of our culvert discharges are merely road crossing pipes

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Planned activities Permit Year 1	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
4.1	Construction Storm Water Pollution Prevention Plan	Planning Board & Public Works	Complete review of existing construction site runoff control	Public Works has set the example by implementing a Stormwater runoff control program for its own work.	Review existing rules and regulations, make necessary adjustments to existing documents for establishing water quality benchmarks, site inspection procedures, etc	Public Works offers input to Planning Administrator after reviewing construction plans on the need for Storm water pollution prevention plans.	DPW Director meets regularly with the Director of Planning and Zoning to review plans and advises contractors if project disturbance necessitates a SWPPP	With the adoption of Amherst's Regulations, implementation by town officials under the Board of Selectmen, Board of Health, and Planning Board can begin	New construction has slowed considerably, one residential street in progress, making inspections and monitoring fairly easy.	New construction is all but nonexistent. The DPW Director meets on a regular basis with the Director of Planning and Zoning.
Revised		Amherst Planning Assistant								
4.2	Site plan review	Public Works Director, Planning Board, & Land use Manager	Take the process now in place (site plan review meeting) and put actions on paper	Create an interim policy from the site plan regulations that exist today.	Continue with interim policy and update as necessary	Department Heads meet monthly with Zoning Administrator to review site plans to be included in Planning Board hearings.	DPW Director meets regularly with the Director of Planning and Zoning to review construction plans prior	Department heads continue to review plan proposals prior to formal presentation at Planning and Zoning hearings.	DPW Director meets regularly with the Director of Planning and Zoning and other Department Heads to	DPW Director meets with Planning and Zoning Director to review any new or revised construction

[illegible]

5. Post-Construction Stormwater Management in New Development and Redevelopment

[illegible]

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – (Reliance on non-municipal partners indicated, if any)	Planned Activities Permit Year 1	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
6.1	Document and Enhance Employee Training Procedures	Public Works Director	Complete review of existing programs and update of formal employee training manual	All employees are actively involved in UNH T-2 and Public Works Academy training. Department SOP's partially completed, plan to have first draft available for review by June 2004. SWMP in draft stage, train staff on content by July 04	Continue existing training programs and integrate new training and techniques to include SWMP and pollution prevention practices.	The Town of Amherst Department of Public Works hired CLD Engineering of Manchester, NH to put on a training class for highway employees.	Along with group training of Stormwater awareness, each employee at the Public Works Academy is exposed to basic Wastewater collection and treatment, Basic water transmission and treatment, Basic Roads and drainage, Solid and Hazardous waste. Planning and Zoning Technical Assistant was trained/certified level 1 Waste Water Tech. Stormwater Committee members attended 1 st annual Regional Stormwater meeting	All Public Works employees are regularly trained through the UNH Technology Transfer Center. One public works employee (for a total of two Town employees) was trained/certified <u>as a Treatment Facility Operator, Grade I-OIT.</u>	Our level 1 NH Waste Water Technician worked with Engineers and other technical people during the construction of Phase II Baboosic Lake Septic.	All highway employees have been trained in basic waste water collection and treatment.
Revised								Administrative employees regularly participate in Nashua Region Stormwater Coalition meetings	Administrative employees attended Phase II Illicit Discharge Detection & Elimination, Construction Site Management & Pollution Prevention Training (4/08)	Stormwater interns reviewed S.O.P. manual for DPW employees.
								Administrative employees participate in US EPA Stormwater Programs Webcast Series	We employ 2 level I NH Waste Water technicians	
6.2	Evaluate the use of Pesticides, sand, and salt	Director of Public Works	Complete review of existing procedures. Write formal procedures manual for handling and using pesticides, sand, and salt	One employee is certified as pesticide supervisor. Within the last three years, we have integrated new technology to minimize the impact of salt and sand on roads.	Complete the learning process of calibrating winter salt and sand equipment. Purchase of two replacement vehicles with ground speed controls.	Municipal parks and grounds, including cemeteries are tested to minimize spreading unnecessary amounts of fertilizers and pesticides. At March voting, taxpayers authorized purchase of second environmentally friendly liquid deicer.	Our state certified pesticide supervisor manages our program within state guidelines. The town continues to support the majority of our equipment upgrades and improvements.	Winter deicing equipment is calibrated each fall to minimize product usage. The town continues to employ a state certified pesticide supervisor	Our State Certified Pesticide supervisor does soil sampling of town cemeteries and commons. We have a number of "no salt roads" treated with sand and other products. We continue to purchase new technology to minimize salt usage where possible.	The town is partnering with Pennichuck Water works in the Stump Pond area with Comprehensive Environmental Inc. to educate residents about lawn fertilizers
Revised										
6.3	Catch basin cleaning	Director of Public Works	Clean every catch basin at least once a year	This practice started three summers ago, each and every catch basin is cleaned yearly or more frequently if needed.	Continue with this program	Each catch basin is cleaned once per year. Catch basins are monitored and additional cleaning happens when and if warranted.	Each catch basin is cleaned yearly. New catch basins are constructed and engineered not to allow stagnant water to pool	All municipal catch basins are cleaned a minimum of one time per year usually in July. Additional cleanings are performed as needed.	All catch basins are cleaned a minimum of one time per year and additional cleaning are done as warranted.	Catch basins are cleaned annually, more often when necessary.
Revised										
6.4	Street sweeping	Director of Public Works	Sweep winter debris from the streets	Existing policies account for approximately one quarter of the streets picked up each spring and the rest swept to the road edge and cleaned during a ten year ditching plan	Work towards budgeting additional monies to power pick-up sweep all town roads.	Street sweeping with pickup vacuum is an annual spring event. The budget process has expanded to approximately one third of town. Each year additional monies are added to increase the equipment rental.	Streets are swept yearly both with vacuum and sweep to the side systems. Future budget plans continue for total vacuuming.	Streets are swept each spring. 30% with a hired vacuum sweeper (funding increased by one third in 08) and the balance (70%) with town owned (sweep to the side of the road) equipment. This includes school parking lots and other school facilities	All of the "no salt" roads are swept with hired equipment in the spring along with the center of town and many subdivisions. More rural roads, the sand is swept to the road edge.	The town does not own a pickup sweeper. We sweep as often as scheduling allows and as much as the budget allows.
Revised										

Programmatic

	Measurable goal	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2	Planned Activities – Progress on Goals Permit Year 3	Progress report on goals and activities for permit year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
Stormwater Management Position Created/staffed				Handled by others	Part time	Summer interns	Summer interns
Annual program budget/Expenditures	Secure funding	\$20,000 \$6,000	\$24,000 \$17,000	\$20,000 \$19,000	\$10,000 \$16,000	\$14,000 Estimate \$10,000	\$14,000 This line will be overspent

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	15 %			15% but distributed town wide	40% through community access channel	40% through community access channel, 100% through mailers	This is difficult to measure. Information is run on the community access channel and brochures & handouts are available at town buildings
Stormwater management committee established	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stream teams established or supported	No		supported	Interns	Interns	Interns	Summer Interns
Shoreline clean-up participation or quantity of shoreline miles cleaned	No)				Yes-participation	Yes-participation	Yes-participation
Household Hazardous Waste Collection Days							April 18 th Nashua May 2 nd Milford June 4 th Nashua Aug 1 st Nashua Oct 3 rd Nashua Nov 7 th Nashua
▪ days sponsored	5 Regional	Regional	5	5 Regional	6 Regional	8 Regional	6 regional min
▪ community participation	05%	05%	05%	2.0%	3.0%	9.7%	0.03%
▪ material collected	tons or gal				3,713 lbs	7,336 lbs	3,260 lbs
School curricula implemented	Grammar School	Grammar School	Grammar School	Grammar School	Grammar School	Grammar School	Grammar School

Legal/Regulatory

In Place Prior to Under
Phase II Review Drafted Adopted

Regulatory Mechanism Status (indicate with "X")					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

	Progress on Goal(s) Permit Year 1	Progress on Goals Permit Year 2	Progress on Goals Permit Year 3	Progress on Goals for Permit Year 4	Progress report on goals and activities for permit year 5	Progress report on goals and activities for permit year 6
Outfall mapping complete			Partial 8/05		Yes	Yes
Estimated or actual number of outfalls						550+/-
System-Wide mapping complete			Partial 8/05		Yes	Yes
Mapping method(s)						
▪ Paper/Mylar			Paper		Paper	Paper, GIS
▪ CADD						
▪ GIS			yes			
Outfalls inspected/screened			3		Yes	Yes
Illicit discharges identified					None	None
Illicit connections removed					None	None
% of population on sewer		0%	0.0023	0.0025	0.0025	0.0028
% of population on septic systems	(100%)	100%	99.9977%	99.9975	99.9970%	99.9972

Construction

	2003	2004	2005	2006	May 06 -May 07	May07-May 08	May 08-Present
Number of construction starts (>1-acre)			Two	Three	4	4	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control			Two	Three	100%	100%	100%
Site inspections completed			Two	-	4	60 (include road construction inspections)	132 (including road construction inspections)
Tickets/Stop work orders issued			0	-	-	1	0
Fines collected			0	-	-	0	0
Complaints/concerns received from public			0	1	0	5	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction Stormwater control	50%	75%	75%	100%
Site inspections completed	50%	75%	Municipal rules and regulations passed within the last two months, regular inspections have already started.	Regular inspections take place on all construction sites
				Inspections are conducted regularly by town employees and contracted engineering firm
Estimated volume of Stormwater recharged				

Operations and Maintenance

	2003	2004	2005	2006	2007	May 2007 – May 2008	2008/09
Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	1time/yr	1time/yr	1time/yr	1 time /yr	1 time / yr	1 time per year usually in July	One time per year, annually in July
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	1time/yr	1time/yr	1time/yr	1 time/ yr	1 time / year	1 time per year usually in July	All cleaned July of 09
Total number of structures cleaned	340	345	355	360	360	360	365
Storm drain cleaned	500 LF.			200 LF	200LF	200 LF	2,000 LF
Qty. of screenings/debris removed from storm sewer infrastructure	200 yards est.	220 yards est	240 yards est.	210 yards estimated	200 yards estimated	200 yards estimated	220 cu yards estimated
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		recycle	recycle	recycle	Recycle	Recycle	Recycle
Cost of screenings disposal							\$15,000

	2003	2004	2005	2006	2007	May 2007-May 2008	June 2008 – Present
Average frequency of street sweeping (non-commercial/non-arterial streets)	1time/yr	1time/yr	1time/yr	1 time/yr	1 time / year	1 time per year usually in May	One time per year usually in May
Average frequency of street sweeping (commercial/arterial or other critical streets)	1time/yr	1time/yr	1time/yr	1 time/yr	1 time per year	1 time per year usually in May	One time per year usually in May
Qty. of sand/debris collected by sweeping	lbs. or tons			1,000 yds	Less than 1,000 yards	Less than 1,000 yards	Less than 1,000 yards
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	location		Beneficial usage	Beneficial usage	Beneficial usage	Beneficial usage	Beneficial usage
Cost of sweepings disposal			\$8,000	\$8,200	\$13,000	\$13,000 +-	\$14,000
Vacuum street sweepers purchased/leased				Not going to be done will continue to hire out	Capital Improvement plan does not support purchase	It is best left to be done by others	No equipment purchases passed by the voters in the last two years, must hire out
Vacuum street sweepers specified in contracts		Outside hire	Outside hire	Outside hire	Outside hire	Outside hire	Outside hire

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)							
▪ Fertilizers			Tested for proper usage	Tested for proper usage	Soil tested annually	Soil tested annually as warranted	Soil tested annually for proper usage as warranted
▪ Herbicides			Tested for proper usage	Tested for proper usage	Tested for proper usage	Tested for proper usage as warranted	Tested annually for proper usage as warranted
▪ Pesticides			Tested for proper usage	Tested for proper usage	Tested for proper usage	Tested for proper usage as warranted	Tested annually for proper usage as warranted

	2004	2005	2006	2007	May 07-May08	June 08 - present
Anti-/De-icing products and ratios All paved roads are treated with a 50/50 mix. Almost all equipment has ground speed controls, and pre-wetting tanks and two small trucks are equipped with straight liquid deicing (50% mag chloride, 50% distillers brew) Ice-be-gone. All dirt roads are treated one hundred percent with sand.	50 % NaCl 10 % CaCl ₂ 03 % MgCl ₂ % CMA % Kac % KCl 50 % Sand	50 % NaCl 10 % CaCl ₂ 03 % MgCl ₂ % CMA % Kac % KCl 50 % San	50 % NaCl 10 % CaCl ₂ 03 % MgCl ₂ % CMA % Kac % KCl 50 % San	50% NaCl 10% CaCl ₂ 03% MgCl ₂ 0.0% CMA 0.0% Kac 0.0% KCl 50% Sand	50% NaCl 10% CaCl ₂ 03% MgCl ₂ 0.0% CMA 0.0% Kac 0.0% KCl 50% Sand	50% NaCl 00% CaCl ₂ 13% MgCl ₂ 0.0% CMA 0.0% Kac 0.0% KCl 50% Sand
Pre-wetting techniques utilized	(yes)	Yes	Yes	Yes	Yes	Yes
Manual control spreaders used	(yes)	Yes	Yes	20% of equipment yes		Less than 10%
Automatic or Zero-velocity spreaders used	yes	Yes	Yes	80% of equipment yes	90% of equipment yes	90% percent
Estimated net reduction in typical Year salt application	Unknown at this time	We are able to keep status quo in spite of increased traffic loads	We are able to keep status quo in spite of increased traffic loads	Status quo	This was a record setting snow fall season, salt usage was up, but it was managed with automatic spreaders	Salt increased \$8 per ton necessitating cutbacks, this was more then offset by increased sand usage, more overtime, fuel, and equipment costs
Salt pile covered in storage shed	yes	yes	yes	Yes	Yes, however a warrant article for additional winter material storage failed to get voter approval	Yes, but the barn is far too small for a town the size of Amherst. Salt is hauled in all winter long.
Storage shed(s) in design or under construction	n/a		New additional storage under design	Additional storage still funded but not yet constructed	The funding referenced last year proved inadequate and additional funding was not approved	No