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**Municipality/Organization:** Town of Amherst, NH

**EPA NPDES Permit Number:** NHR41001

**MaDEP Transmittal Number:** \_\_\_\_\_

**Annual Report Number  
& Reporting Period:** No. 5: March 03-May 08

## NPDES PII Small MS4 General Permit Annual Report

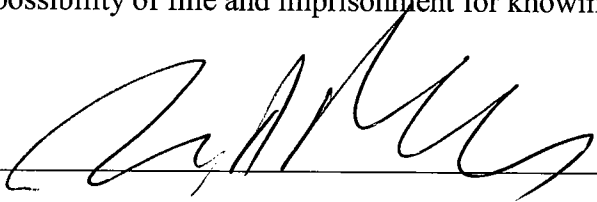
### Part I. General Information

**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:** 4-24-08

## 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 and trying to get a handle understanding the complete process. We are committed to these requirements and regulations and I was delighted to find during the review phase by our consulting engineers that information posted in the Public Works section of the town webpage unintentionally included educational information addressing Stormwater II. We have a long ways to go and we will stay the course. Limited volunteerism, and resources may require us to rethink our strategies, but the 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 become a valuable resource for spreading the word.

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, over fertilizing of lawns, etc.

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

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

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

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

2005 -We continue to educate our Planning board on the necessity to formulate rules and regulations. Public Works is in its second year using magnesium chloride/leftover mash of alcohol distilleries. The voters 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 whose layout will further minimize residue runoff. We continue our annual street sweeping and catch basin cleaning. DPW inspects erosion control systems for new public and private road construction. The Town of Amherst employs two licensed pesticide supervisors in different departments overseeing fertilizer and pesticide controls for the town and three school districts. We are assisted with soil analysis at the University of New Hampshire. Amherst voters supported Phase II of the Baboosic Lake Septic program adding as many as twenty additional users to the eleven already on the system. Interns completed mapping outfalls and receiving waters. Follow-up will take place this year along with dry weather screening.

2007 - Public Works is in it's forth year of magnesium chloride/leftover mash of alcohol distilleries, the area of use has been widened. We are up to seven trucks with onboard liquid calcium chloride (which improves/minimizes salt usage below 20 degrees) systems and five spreader trucks with groundspeed controls. Two replacement trucks approved by the voters this year will include groundspeed and calcium systems bringing the total to nine. Almost every winter maintenance vehicle is now equipped with ground/air temperature sensing equipment. Additional monies are in the operating budget to sweep roads expanding our pickup sweeping thus reducing wasted sand pollution into fish spawning areas. During the previous late summer, interns developed, designed, and installed markers at three quarters of our catchbasins.

2008 - The town approved a road repair budget increase sufficiently to place DPW on a ten year road maintenance schedule. Proper horizontal alignment and cross slope uses less winter road chemicals. The practice of cleaning catch basins and removing winter sand from roads is supported and continues. Summer activities for our interns will include remarking of catch basins and stream water reviews.

II, (c) Achieving our first year goals, became more challenging while trying to understand the process. This will impact our five year plan and necessitate a tighter timeframe. The Planning Board, Master Plan revision is underway with a goal of adopting it after hearings in 2007. The town is going through a reevaluation of the Zoning and Planning Department with a goal of increase time towards Code Enforcement with sites on site 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 then originally anticipated. The Stormwater II Committee has made this 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.

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

### 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   |
|----------|--|--|--|--|--|---|--|--|---|
| 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.   |
| Revised  | Education booth at 4 <sup>th</sup> of July festivities | Stormwater II committee                    | Brochures  |  |  |   |  |  |   |
| 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 Amherst DPW tries new snow and ice removal technology, explaining deicing spray program | New Stormwater information n the Town website is added as often as possible  | <a href="http://www.amherstnh.gov/StormWater/floods.html">www.amherstnh.gov/StormWater/floods.html</a> and review the various titles. |
| Revised  | Update as time allows                                  | 2005-Stormwater II Committee               | Electronic exposure through education                                  |  |  |   |  |  |   |
| 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.                    |
| Revised  |  |  |  |  |  |   |  |  |   |
| 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                            |
| Revised  |  |  |  |  |  |   |  |  |   |

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| 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<br>2nd Grade- the rotten truth about landfills. 3 <sup>rd</sup> 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. |
| 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. |
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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 |  | <p><b>April 13, 2004</b> Earth Day Articles</p> <p><b>June 8<sup>th</sup></b> Lawn Pesticides and Water Pollution <b>July 27<sup>th</sup></b> Buying an Using Pesticides, Read the Fine Print <b>Sept 14</b> Reduce Lawn Fertilizer Use</p> | January 11 <sup>th</sup> Safe Winter Driving on Limited Salt Use Roads Jan 14 <sup>th</sup> Brush Up on your Winter Driving Skills. Feb 8 <sup>th</sup> Article on commercial car wash verses washing in the yard. | <p>Amherst General Quarterly 12/05</p> <ul style="list-style-type: none"> <li>➤ EPA Stormwater Requirements for Amherst a basic overview</li> <li>➤ What's our trash problem</li> <li>➤ Earth machines compost bins available</li> </ul> <p>Recycling articles</p> <ul style="list-style-type: none"> <li>➤ The Importance of Recycling</li> <li>➤ Recycling Trends</li> <li>➤ Amherst Trash, Resource, Recovering &amp; Recycling</li> </ul> <p>Amherst Citizen</p> <ul style="list-style-type: none"> <li>➤ Pet waste and water pollution</li> <li>➤ Safe winter driving on Limited salt use roads.</li> <li>➤ Every day is earth day in Amherst –litter pickup</li> </ul> | <p>Amherst General Quarterly March 2007</p> <ul style="list-style-type: none"> <li>➤ Passage and implementation of the Stormwater Regulation</li> <li>➤ Services offered by the Transfer station, benefits of improving the station</li> <li>➤ There are articles in each Quarterly about Stormwater, Recycling, and other environmental issues</li> </ul> <p>2006 Town Report</p> <ul style="list-style-type: none"> <li>➤ Summary of the yearly activities for Stormwater II Committee and the Recycling and Solid Waste Task Force</li> </ul> <p>Amherst Citizen 11 April 2007</p> <ul style="list-style-type: none"> <li>➤ Household Hazardous Waste Season kicks off</li> </ul> | <p>Amherst Stormwater Phase II web site</p> <ul style="list-style-type: none"> <li>➤ Floods</li> <li>➤ Lawn care</li> <li>➤ Gardening</li> <li>➤ Pesticides</li> <li>➤ Fertilizer</li> <li>➤ Limited salt</li> <li>➤ Roads</li> <li>➤ Washing Cars</li> <li>➤ Pet Waste</li> <li>➤ Snow &amp; Ice</li> </ul> <p>Conservation Commission information rack at Town Hall</p> <ul style="list-style-type: none"> <li>➤ Fact Sheets on related topics like septic systems, wells, IPM and low chemical gardens and laws</li> </ul> <p>2007 Town Report</p> <ul style="list-style-type: none"> <li>➤ Summary of the previous years Stormwater activities</li> <li>➤ Summary of Solid Waste activities</li> </ul> |
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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   |
|---------------|--|--|--|--|--|---|--|--|---|
| 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 |   |
| Revised 10/04 |  | Representation from private sector and several town boards |  |  |  |   |  |  |   |
| 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 funding, in the process of the bidding stage, anticipate implementation | 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. | 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 |

|             |                        |   |  |   |   |  |  |  |   |
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| Revised 2.2 |                        |   | Bid out in 04 implement by 05            |   |   |  |  |  |   |
| 2.3 Revised | Catch Basin Stenciling | Public Works  | Stencil priority by August of 04         | The town maintains under 350 catch basins. During our annual cleaning in July, DPW staff will mark as each is cleaned   | Monitor and re-stencil with public service announcement in local paper                          | Markings are done annually in the spring/early summer during catch basin cleaning  | Spring markings will continue during catch basin cleaning  | Stormwater interns designed and installed vinyl markers @ 70% of our catch basins  | As parts of this summer's work schedule all vinyl markers will be checked and replaced where necessary.   |
| 2.4 Revised | HHW Collection Events  | Public Works Director and Nashua Regional Planning Commission | Better participation                     | Currently, there are five sponsored regional collection events. The Amherst Solid Waste Committee is reviewing this program and investigating a local collection event. | Continue to track participation of the regional event and work towards a more local collection. | Amherst continues to be involved in regional collection. The approved designated collection site is in Nashua. A local regional site failed as state funding was cut. We will continue to pursue funding.  | Amherst has continued its commitment to regional collections in Nashua. State funding cuts continue to plague any chance of local collections.   | Amherst has continued its commitment to regional collections in Nashua. State funding cuts continue to plague any chance of local collections  | Nashua Regional Planning Commission (NRPC) manages regional collections. We experienced our first localized collection and it was a huge success.   |
| 2.5 Revised | Education Committee    | Public Works Director and Solid Waste task force committee    | Booth at major events on the town common | An information booth manned by volunteers during events such as Forth of July   | Consider comments received at public events and expand available information.                   | Education is on-going in the elementary schools, the Transfer Station, and on the web. Preparations for an information booth at 4 <sup>th</sup> of July activities. As the town moves towards a community access channel which should be up and running by this fall, we will include information there also | Community access channel has become an active education tool exposing Amherst residents to Best Management Practices. A new information board located at the Amherst Transfer Station and booths staffed by volunteers at annual events help spread the word. Stormwater II Committee members attend Nashua Regional Planning Commission Stormwater II coalition meetings. | Community access channel has become an active education tool exposing Amherst residents to Best Management Practices. A new information board located at the Amherst Transfer Station and booths staffed by volunteers at annual events help spread the word. Stormwater II Committee members attend Nashua Regional Planning Commission Stormwater II coalition meetings. | Peabody Mill Environmental Center, offers in town educational programs, the NRPC is working on regional curriculum to be presented in area schools. The committee publishes articles in local papers and utilizes the community access channel. |

**2a. Additions**

|     |  |  |  |  |  |  |  |  |  |
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| 2.6 | Roadside Cleanup in conjunction with Earth Day | Beth Woodbury Environmental Teacher at Souhegan High School and Public Works | Remove trash and floatables from shoulders of town roads |  |  | This is cooperative effort to remove trash from the roadside using students and public works employees. This may become semi-annual. | This spring we will work with the Junior Women's Club who intends to solicit assistance from other volunteer organizations | This spring we will work with the Junior Women's Club who intends to solicit assistance from other volunteer organizations | The town continues to work with volunteer groups supporting roadside cleanup efforts |
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**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   |
|----------|--|---------------------------------------|---|---|--|---|--|---|---|
| 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. |

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| 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. |
| 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.                                 |

#### 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   |
|----------|--|---|---|--|--|--|---|---|---|
| 4.1      | Construction Storm Water Pollution Prevention Plan | Planning Board & Public Works Director                    | 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.  |
| 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 to Planning Board approval.                      | Department heads continue to review plan proposals prior to formal presentation at Planning and Zoning hearings. Additional site reviews will take place as needed after the Regulation is implemented. | DPW Director meets regularly with the Director of Planning and Zoning and other Department Heads to review construction plans prior to submittal to Planning Board. |
| Revised  |  |   |   |  |  |  |   |   |   |

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

| BMP ID # | BMP Description  | Responsible Dept./Person Name             | Measurable Goal(s)  | Progress on Goal(s) – (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   |
|----------|--|---|---|--|---|--|--|--|---|
| 5.1      | Stormwater rules and regulations for sites over 43,560 square feet | Public Works, Engineering, Planning Board | Complete review of existing MS4 maintenance procedures. Complete formal procedures manual for conducting MS4 maintenance, include record keeping forms, best management practices, etc. | Start the review process with recommendations from public works and planning. Begin drafting rules and regulations to regulate post construction Stormwater management and illicit discharges. | Draft new rules and regulations for review and initiate the process for implementation. | This is a priority of the Stormwater Committee. A meeting is scheduled between Stormwater Committee and Board of Selectmen with Planning Board Representation, and Town Counsel. | Stormwater regulations are being reviewed by Town Counsel. | The Stormwater Regulation has been adopted by the Planning Board, Board of Health, and Board of Selectmen. | From the prospective of implementation, a downturn in the economy allows us to educate developers and contractors in Stormwater Requirements. |

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| Revised |   |  | We have started slowly, this looks more like an 04-05 goal                  |   |   |   | As of this writing, town inspectors are only inspecting construction sites destined to be town roads.   | This year, town officials will be working on construction site inspection SOP's  | Policies are in place so development or redevelopment is inspected by Professional Engineers hired by the town but paid by the Developer. |
|         | Incorporate Best Management Practices into Town regulation Plan | Public Works Director, Planning Board, Town Counsel & Board of Selectmen | Complete update of Town's regulations to include Best Management Practices. | Review existing Master Plan and draft recommended changes | Bring before the authority having jurisdiction for approval and implementation. | The Amherst Stormwater Committee is working on rules to be included in the town regulations. Looking at adopting NHDES best management guidance documents | Town of Amherst earmarked by town vote to fund money towards redoing the master plan. Public Works Director is drafting new road construction standards covering General construction standards, New road construction, Storm Drainage, Water distribution, & Sanitary sewers | Master Plan revision is underway. The Stormwater Regulation includes some BMP's; and more will be included in the forthcoming update of the Road Specifications. | The Master Plan is in its final stages of redevelopment   |
| Revised |   |  |   |   |   |   |   |  |   |
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### 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  |
|----------|---|-------------------------------|--|--|---|--|---|---|--|
| 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, <u>Solid and Hazardous waste</u> . Planning and Zoning Technical Assistant was trained/certified <u>level 1 Waste Water Tech</u> . Stormwater Committee members attended 1 <sup>st</sup> 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 as a <u>Treatment Facility Operator, Grade 1-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.<br><br>Administrative employees regularly participate in Nashua Region Stormwater Coalition meetings<br><br>Administrative employees attended Phase II Illicit Discharge Detection & Elimination, Construction Site Management & Pollution Prevention Training (4/08)<br><br>Administrative employees participate in US EPA Stormwater Program's Webcast Series |
| Revised  |   |                               |  |  |   |  |   |   |  |



|         |  |                          |  |  |   |  |  |  |   |
|---------|--|--------------------------|--|--|---|--|--|--|---|
| 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. |
| 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.  |
| 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.  |
| 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 |
|--|-----------------|--|------------------------------------|--|---|---|
| Stormwater Management Position Created/staffed |                 |  |                                    | Handled by others                                    | Part time   | Summer interns  |
| Annual program budget/<br>Expenditures         | Secure funding  | \$20,000<br>\$6,000  | \$24,000<br>\$17,000               | \$20,000<br>\$19,000                                 | \$10,000<br>\$16,000                                      | \$14,000<br>Estimate \$10,000                             |

**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 |
| Stormwater management committee established                             | Yes        | Yes      | Yes       | Yes                           | Yes                                  | Yes  |
| Stream teams established or supported                                   | No         |          | supported | Interns                       | Interns                              | Interns  |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | No)        |          |           |                               | Yes-participation                    | Yes-participation  |
| Household Hazardous Waste Collection Days                               |            |          |           |                               |                                      |  |
| ▪ days sponsored  | 5 Regional | Regional | 5         | 5 Regional                    | 6 Regional                           | 8 Regional   |
| ▪ community participation   | 05%        | 05%      | 05%       | 2.0%                          | 3.0%                                 | 9.7%   |

|                              |                |                |                |                |                |                |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| ▪ material collected         | tons or gal    |                |                |                | 3,713 lbs      | 7,336 lbs      |
| School curricula implemented | Grammar School | Grammar School | Grammar School | Grammar School | Grammar School | Grammar School |

**Legal/Regulatory**

|  | In Place<br>Prior to<br>Phase II | Under<br>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)<br>Permit Year 1 | Progress on Goals<br>Permit Year 2 | Progress on Goals<br>Permit Year 3 | Progress on Goals for<br>Permit Year 4 | Progress report on<br>goals and activities<br>for permit year 5 |
|--|--------------------------------------|------------------------------------|------------------------------------|--|---|
| Outfall mapping complete               |                                      |                                    | Partial 8/05                       |  | Yes   |
| Estimated or actual number of outfalls |                                      |                                    |                                    |  |   |
| System-Wide mapping complete           |                                      |                                    | Partial 8/05                       |  | Yes   |
| Mapping method(s)                      |                                      |                                    |                                    |  |   |
| ▪ Paper/Mylar                          |                                      |                                    | Paper                              |  | Paper   |
| ▪ CADD                                 |                                      |                                    |                                    |  |   |
| ▪ GIS                                  |                                      |                                    | yes                                |  |   |
| Outfalls inspected/screened            |                                      |                                    | 3                                  |  | Yes   |
| Illicit discharges identified          |                                      |                                    |                                    |  | None  |
| Illicit connections removed            |                                      |                                    |                                    |  | None  |
| % of population on sewer               |                                      | 0%                                 | 0.0023                             | 0.0025                                 | 0.0025  |
| % of population on septic systems      | (100%)                               | 100%                               | 99.9977%                           | 99.9975                                | 99.9970%  |

**Construction**

|   | 2003 | 2004 | 2005 | 2006  | May 06 -May 07 | May07-May 08 |
|---|------|------|------|-------|----------------|--------------|
| Number of construction starts (>1-acre)   |      |      | Two  | Three | 4              | 4            |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control |      |      | Two  | Three | 100%           | 100%         |

|  |  |  |     |   |   |  |
|--|--|--|-----|---|---|--|
| Site inspections completed               |  |  | Two | - | 4 | 60 (include road construction inspections) |
| Tickets/Stop work orders issued          |  |  | 0   | - | - | 1  |
| Fines collected                          |  |  | 0   | - | - | 0  |
| Complaints/concerns received from public |  |  | 0   | 1 | 0 | 5  |

**Post-Development Stormwater Management**

|  |     |   |  |  |
|--|-----|---|--|--|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction Stormwater control | 50% | 75%   | 75%  |  |
| Site inspections completed   | 50% | 75%<br>Presently regulated through State site specific as required by NHDES. Town authority limited until regulation in place | Municipal rules and regulations passed within the last two months, regular inspections have already started. | Regular inspections take place on all construction sites |
| Estimated volume of Stormwater recharged   |     |   |  |  |

**Operations and Maintenance**

|  | 2003           | 2004          | 2005           | 2006                | 2007                | May 2007 – May 2008             |
|--|----------------|---------------|----------------|---------------------|---------------------|---------------------------------|
| 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 |
| 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 |
| Total number of structures cleaned   | 340            | 345           | 355            | 360                 | 360                 | 360                             |
| Storm drain cleaned  | 500 LF.        |               |                | 200 LF              | 200LF               | 200 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             |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |                | recycle       | recycle        | recycle             | Recycle             | Recycle                         |
| Cost of screenings disposal  |                |               |                |                     |                     |                                 |

|  | 2003         | 2004     | 2005     | 2006      | 2007                  | May 2007-May 2008              |
|--|--------------|----------|----------|-----------|-----------------------|--------------------------------|
| 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 |
| 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 |
| Qty. of sand/debris collected by sweeping  | lbs. or tons |          |          | 1,000 yds | 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                     |
| Cost of sweepings disposal  |          |              | \$8,000          | \$8,200  | \$13,000   | \$13,000 +/-                         |
| 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 |
| Vacuum street sweepers specified in contracts                         |          | 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    |
| ▪ Herbicides   |  |  | Tested for proper usage | Tested for proper usage | Tested for proper usage | Tested for proper usage as warranted |
| ▪ Pesticides   |  |  | Tested for proper usage | Tested for proper usage | Tested for proper usage | Tested for proper usage as warranted |

|  | 2004  | 2005   | 2006   | 2007   | May 07-May08   |
|--|---|--|--|--|--|
| Anti-/De-Icing products and ratios<br>All paved roads are treated with a 50/50 mix. Half of our equipment has ground speed controls, and pre-wetting tanks and one small truck is equipped with straight liquid deicing (50% mag chloride, 50% distillers brew) Ice-be-gone. All dirt roads are treated with one hundred percent ledge sand. | 50 % NaCl<br>10 % CaCl <sub>2</sub><br>03 % MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>50 % Sand | 50 % NaCl<br>10 % CaCl <sub>2</sub><br>03 % MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>50 % San | 50 % NaCl<br>10 % CaCl <sub>2</sub><br>03 % MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>50 % San | 50% NaCl<br>10% CaCl <sub>2</sub><br>03% MgCl <sub>2</sub><br>0.0% CMA<br>0.0% Kac<br>0.0% KCl<br>50% Sand | 50% NaCl<br>10% CaCl <sub>2</sub><br>03% MgCl <sub>2</sub><br>0.0% CMA<br>0.0% Kac<br>0.0% KCl<br>50% Sand |
| Pre-wetting techniques utilized  | (yes)   | Yes  | Yes  | Yes  | Yes  |
| Manual control spreaders used  | (yes)   | Yes  | Yes  | 20% of equipment yes   |  |
| Automatic or Zero-velocity spreaders used  | yes   | Yes  | Yes  | 80% of equipment yes   | 90% of equipment yes   |
| 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 pile covered in storage shed  | yes   | yes  | yes  | Yes  | Yes, however a warrant article for additional winter material storage failed to get voter approval         |

|   |     |  |                                     |   |  |
|---|-----|--|-------------------------------------|---|--|
| 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 |
|---|-----|--|-------------------------------------|---|--|