



COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED

May 13, 2009

Glenda Velez
US EPA – CIP
One Congress Street, Suite 1100
Boston, MA 02114

**Re: NPDES Stormwater General Permit
2008-2009 Annual Report
Town of Hadley, MA**

Dear Ms. Velez:

On behalf of the Town of Hadley, MA, please find enclosed the NPDES Phase II Stormwater General Permit 2008-2009 Annual Report. The Annual Report has simultaneously been filed with the Massachusetts Department of Environmental Protection.

If you have any questions or require any additional information, please do not hesitate to call me at (800)725-2550 ext. 303.

Sincerely,

Comprehensive Environmental Inc.

Nick Cristofori
Project Engineer

cc: Massachusetts Department of Environmental Protection, Boston Office
Mike Klimoski, Highway and Water Superintendent, Town of Hadley, MA

Enclosure – NPDES Phase II Small MS4 General Permit 2008-2009 Annual Report

- Engineering
- Design
- Construction
- Inspection

Responsive
service,
cost-effective
solutions,
technical
excellence

- Water &
Wastewater
- Parks &
Recreation
- Drainage &
Flooding
- Hazardous Waste
- Transportation
- Stormwater & LID
- Watershed
Restoration

Municipality/Organization: Town of Hadley

EPA NPDES Permit Number: MAR041008

MassDEP Transmittal Number: W222972

Annual Report Number 6
& Reporting Period: April 1, 2008 – March 31, 2009

NPDES PII Small MS4 General Permit
Annual Report
May 1, 2009

Part I. General Information

Contact Person: Michael Klimoski **Title:** Highway & Water Dept. Superintendent

Telephone #: (413) 586-2390 **Email:** publicworks@hadleyma.org

Mailing Address: Hadley Highway and Water Department
230 South Middle Street
Hadley, MA 01035

Certification:

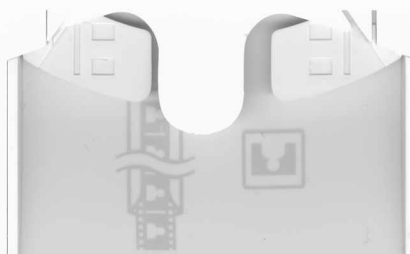
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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: David Nixon

Title: Town Administrator

Date: 5/1/09



Part II. Self-Assessment

The Town of Hadley received confirmation for coverage under the General Permit for its Municipal Separate Storm Sewer System (MS4) on May 10, 2003. Hadley has completed the required assessment and determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|--|---------------------------------------|---|--|--|
| 1A | Partnership Lake Warner – Mill River Steering Committee | Highway Department | Specific goals set by Lake clean-up organization | The Lake Warner – Mill River Steering Committee was dissolved during Permit Year 5. Hadley continues to work with the Stormwater Management Steering Committee and the Pioneer Valley Planning Commission (see BMPs 2B and 2E respectively). | No further action proposed. |
| Revised | | | | | |
| 1B | Distributing Fact Sheets Brochures with Water Bills | Highway Department & Water Department | Distribution to all Hadley households | Stormwater fact sheets were mailed to residents annually with water bills during permit years 1 through 5. | Distribute stormwater fact sheets to residents annually with water bills. |
| Revised | | | Annual Distribution to all Hadley households | | |
| 1C | Presentation of Educational Video on Public Access Cable. | Highway Department | Provide generic or regional video, by others, for 2-4 airings | Planning Board and Town Selectmen meetings were televised on the local public access cable network, including stormwater information on development projects. | Continue to broadcast Planning Board and Town Selectmen meetings on the cable channel. Broadcast the EPA video “After the Storm” on the local cable channel as airtime is available. |
| Revised | Broadcast the Progress of the Phase II Program w/ Planning Board and Town Selectmen Meetings | | | | |

1a. Additions.

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|---|--------------------------------------|---|---|---|
| 1D | Publish Stormwater Information on the Highway Website | Highway Department | Website posts on stormwater information. Record # of website hits | Advertised the October 2008 Household Hazardous Waste event in Amherst. Updated the website to include the Annual Water Quality Report. | Continue to update the website with information on stormwater. Publish erosion & sediment control and illicit discharge bylaws. Explore the use of a hit counter to track visits. |
| Revised | | | | | |

2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|---|---|--|--|---|
| 2A | Partnership Lake Warner – Mill River Watershed Steering Committee | Highway Department | Specific goals set by Lake clean-up organization | The Lake Warner – Mill River Steering Committee was dissolved during Permit Year 5. Hadley continues to work with the Stormwater Management Steering Committee and the Pioneer Valley Planning Commission (see BMPs 2B and 2E respectively). | No further action proposed. |
| Revised | | | | | |
| 2B | Establish a NPDES Steering Committee to Oversee Permit Implementation | Town Administrator / David Nixon | Include members from all town boards and committees | The Stormwater Management Steering Committee was created from 2003 through 2005, originally consisting of the Highway superintendent and a consultant. Representatives from other Town boards and commissions were added in 2005. The Committee prepared bylaws to satisfy Phase II erosion & sediment control and illicit discharge requirements. The Committee has not met since the bylaws were created. | The Stormwater Management Steering Committee will meet once the new Phase II requirements are finalized by MADEP. The Committee will review the new regulations to determine applicability to Hadley. |
| Revised | | | | | |
| 2C | Hold Public Meetings for Input on the Stormwater Program | NPDES Steering Committee | Hold three public meetings on the Town's proposed stormwater program | The Highway Department met with the Board of Selectmen approximately twice a month to discuss stormwater projects in town. The meetings were televised on the local cable channel (see BMP 1C). Highway personnel met with the Conservation Commission two to three times during permit year 6 to discuss stormwater NOIs and other projects. Internal Highway Department meetings are held as needed to coordinate among personnel. | Continue to meet with other Town departments to coordinate on stormwater projects. Televisе public meetings on the local cable channel. |
| Revised | | Board of Selectmen / Highway Department | Public broadcast of meetings | | |

2a. Additions.

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|--|-------------------------------------|---|---|---|
| 2D | Community Participation | Highway Department | Track the results of Hazardous Waste Collection | Participation in the Hazardous Waste Collection Events was tracked by a tally of cars and resulted in 3 cars for the October 4, 2008 event. Types of waste included general household waste and paint. The HHW event was advertised to encourage participation (see BMPs 1D and 3E). | Continue tracking community participation. Advertise the HHW collection event in the newspaper, on the cable channel and on the website. Explore ways to improve attendance. |
| Revised | Community Participation in Household Hazardous Waste Collection | | | | |
| 2E | Create a Partnership with the Pioneer Valley Planning Commission | Planning Board / Highway Department | Establish an agreement for the PVPC to provide monthly assistance to the Town of Hadley | Hadley has a contract with the Pioneer Valley Planning Commission to provide professional assistance on regulatory and zoning development. The PVPC also met once a month with the Stormwater Management Steering Committee to help prepare the bylaws for erosion & sediment control and illicit discharge regulation. | Hadley will continue to partner with the PVPC for assistance, particularly when the new Phase II regulations are released by MADEP. |
| Revised | | | | | |
| 2F | Volunteer Roadway Cleanup | Highway Department / Volunteers | Number of volunteers and trash/debris collected | Hadley roads were cleaned by the Department of Corrections with events taking place approximately three times a year. Roads prone to trash buildup, wooded and wetland areas were cleaned as a first priority. | The Highway Department works with volunteers to do roadway cleanups. Highway supplies the bags and pickup service while volunteers perform the cleanup. A Summer 2009 roadway cleanup event is scheduled. Continue to work with the Department of Corrections to collect roadway trash and debris. Begin tracking the number of volunteers participating in the event and trash/debris collected. |
| Revised | | | | | |

3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|--|------------------------------------|--|---|---|
| 3A | Partnership with the Massachusetts Highway Department | Highway Department | Mapping of drainage system within Route 9 corridor | The mapping effort was completed in July 2005. No additional structures were mapped during Permit Year 6. | Continue to update the map to include any new structures located or installed along State-owned roads. |
| Revised | | | | | |
| 3B | Storm Drain System Map with the Urbanized Area | Highway Department | Mapping of drainage system within the Urbanized Area and outwardly as possible | Mapping of catch basins, manholes, outfalls and culverts in the Urbanized Area was completed in July 2005. No additional structures were mapped during Permit Year 6. | Continue to update the map to include any new structures located or installed along Town-owned roads. |
| Revised | | | | | |
| 3C | Dry Weather Screening and Video Inspection | Highway Department | Screen 20% of outfalls per year, video suspicious pipelines yearly | Screening in the urbanized area was completed in Spring 2006. No significant illicit connections were found. | Pursue additional illicit discharge detection efforts in locations outside the Urbanized Area as funding allows. |
| Revised | | | | | |
| 3D | Establish Illicit Discharge Hotline & Provide Information in Water Bills | Police / Fire | Hotline for citizens to report illicit discharges established | Calls were received and addressed by the Highway Department. The Highway Department worked with other Town departments to coordinate response efforts as needed. | Continue to address all calls as received and maintain a log with a record of follow-up actions. Explore the use of a hotline should call volume increase substantially. Provide information to residents on illicit discharges in water bills. |
| Revised | | Police, Fire & Highway Departments | | | |

3a. Additions.

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|--|---|---|---|---|
| 3E | Coordinate with Neighboring Towns to Establish a Household Hazardous Waste (HHW) Event for Residents | Highway Department | Annual Hazardous Waste Day | A regional Household Hazardous Waste collection day was held by the Town of Amherst on October 10, 2008. Hadley worked with Amherst to allow its residents to participate in the collection event. The event was advertised in the local paper, on the Town website, and via the local cable channel. | Continue to cooperate with Amherst to allow residents access to the HHW event. Track resident participation (refer to BMP 2D). Advertise to encourage resident participation. |
| Revised | | | | | |
| 3F | Storm Drain System Map Outside the Urbanized Area | Highway Department | Mapping of drainage system outside the Urbanized Area | Mapping of catch basins, manholes, outfalls and culverts outside the Urbanized Area was completed in July 2005. No additional structures were mapped during Permit Year 6. | Continue to update the map to include any new structures located or installed along Town-owned roads. |
| Revised | | | | | |
| 3G | Develop an Illicit Discharge By-Laws | NPDES Steering Committee, Highway Dept., Planning Dept. | Drafting, public meetings adoption within three years | The Hadley Planning Board adopted an illicit discharge bylaw on July 5, 2005. | Continue to enforce the bylaw. |
| Revised | | | | | |

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|---|---|---|--|---|
| 4A | Develop By-Laws for Land Disturbances Over 1 Acre | NPDES Steering Committee | Drafting, public meetings adoption within three years | The Hadley Planning Board adopted an Erosion and Sediment Control for Stormwater Management bylaw on July 5, 2005. | Continue to enforce the bylaw and regulations. Explore additional erosion control enforcement measures as needed. |
| Revised | | NPDES Steering Committee, Highway Dept., Planning Dept. | | | |

4a. Additions.

| | | | | | |
|---------|--|--|--|---|---|
| 4B | Construction Site Runoff Inspection | Highway Department / Outside Firm | Conduct on-site inspections during construction activities | Hadley requires on-site supervision by an outside, third party engineering firm during all construction activities. This is paid for by the developer. Approximately four projects were inspected during Permit Year 6. | Continue to enforce the current inspection program. |
| Revised | | | | | |
| 4C | Pre-Construction Project Review | Planning Board / Highway & Conservation Commission | Require pre-construction review. Address public concerns and phone calls | Construction projects were reviewed by the Conservation Commission and Planning Board to ensure environmental impacts were minimized. Highway worked with other Town departments to ensure proper design. | Continue to enforce current review methods. Address all phone calls as needed. |
| Revised | | | | | |
| 4D | Establish a Procedure for the Receipt of Information Submitted by the Public | Highway Department / Conservation Commission | Record number of phone calls to the Highway Department. | As discussed in BMP 3D, calls and complaints were received by the Highway Department. The Highway Dept. and Conservation Commission handled complaints for construction site issues in Town. | The Highway Department will continue to handle stormwater related phone calls. The Highway phone number will continue to be advertised through existing media. Track calls and record actions taken annually. |
| Revised | | | | | |

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

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|---|--|---|--|--|
| 5A | Develop a Post Construction Runoff Control By-Law for Sites Over 1 Acre | NPDES Steering Committee, Highway Dept., Planning Dept | Drafting, public meetings adoption within three years | The Hadley Planning Board implemented an Erosion and Sediment Control for Stormwater Management bylaw on July 5, 2005. | Continue to enforce the bylaw and regulations. |
| Revised | | | | | |

5a. No additions at this time.

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|-----------------|-------------------------------|--------------------|---|---------------------------------------|
| | | | | | |
| Revised | | | | | |

6. Pollution Prevention and Good Housekeeping in Municipal Operations

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|---|-------------------------------|---|--|---|
| 6A | Existing Spill Prevention Control Plans for Town Facilities | Highway Department | Revise plan/conduct annual training | A SPCC Plan was developed and implemented at the DPW yard in Permit Year 1. The SPCC Plan was updated and a training presentation prepared by the Town's Consultant in 2007. | Continue complying with the SPCC Plan. |
| Revised | | | | | |
| 6B | Training Program for Maintenance and Landscape Crews | Highway Department | Develop pollution prevention workshop for municipal employees | Pollution prevention topics were informally discussed as part of routine Highway Department operations meetings. | Continue training of town employees, particularly the Highway Department. |
| Revised | Conduct Town Employee Stormwater Training | | | | |
| 6C | Incorporate the Use of Road Salt Alternatives for Deicing | Highway Department | Reduce the amount of road salt used by 25% | Highway used calcium chloride mix to reduce sand loads to the roadways. A total of 8,984 gallons were used during Permit Year 6. | Continue to explore salt reduction options. |
| Revised | | | Reduce the amount of road salt used by the Town | | |

6a. Additions.

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|--|-----------------------------------|--|---|--|
| 6D | Mark Storm Drains with Buttons or Stencils | Highway Department and Volunteers | Mark or stencil storm drains as funding allows | No progress to date. Pioneer Valley Regional Planning Commission (PVRPC) previously labeled a number of structures within Zone II areas; however the streets have since been repaved. | Explore the recruitment of volunteers or the PVRPC for marking or stenciling storm drains. |
| Revised | | | | | |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|---|--------------------------------------|---|--|---|
| 6E | Clean Catch Basins | Highway Department | Clean half of catch basins annually | The Highway Department cleaned half (approximately 200) of town catch basins during Permit Year 6. The Town also purchased a Vactor truck that is shared by the Highway and Sewer departments. The Highway Department prioritized basins prone to sediment accumulation first, such as heavy traffic areas and heavily sanded areas. Leaching basins were cleaned second, followed by the remainder of basins. | Continue catch basin cleaning program. Clean high priority basins first. |
| Revised | | | | | |
| 6F | Track Catch Basin Cleanings | Highway Department | Sediment quantity records and dates cleaned of each catch basin | The Town recorded date cleaned and approximate sediment depths for each catch basin during maintenance activities. This information was used to target specific basins for more frequent cleaning (See BMP 6E). Highway personnel used a standard form for catch basins. | Continue to record and date sediment accumulation for future cleaning priorities. |
| Revised | | | | | |
| 6G | Properly Dispose of Catch Basin Cleanings | Highway Department | Disposal of catch basin cleanings at an approved landfill | The Town received DEP approval for reuse of catch basin cleanings as landfill capping material on February 23, 2009. Catch basin cleanings were temporarily stockpiled at the Hadley Transfer Station before being transferred to either the North Hampton Landfill or Granby Landfill. | Continue to properly dispose of catch basin cleanings. |
| Revised | | | | | |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|---|--------------------------------------|--|---|--|
| 6H | Sweep Streets in Town | Highway Department | Street sweeping schedule | Continued street sweeping program in town that included: doing a pre-sweep of heavily sanded streets in early March for reuse during next year's sanding efforts, followed by at least two additional sweeps throughout the year. Urbanized and commercial areas were cleaned more frequently as necessary. | Continue street sweeping program annually and evaluate future sweeping priorities. |
| Revised | | | | | |
| 6I | Properly Dispose of Street Sweeping Cleanings | Highway Department | Disposal of street sweeping cleanings at the Hadley Transfer Station | The Highway Department brought all street sweepings to the Transfer Station where they were used as fill. A low spot on-site was used to retain the sediment. The Town used two street sweepers for its cleaning efforts. | Continue to properly dispose of street sweeping cleanings. |
| Revised | | | | | |
| 6J | Ensure Covered Storage for Salt Materials | Highway Department | All salt is covered in the storage shed | All salt materials were covered. | Continue storing salt materials in the covered storage shed. |
| Revised | | | | | |
| 6K | Inspect and Maintain Culverts and Outfalls | Highway Department | All culverts and outfalls functioning as intended | Culverts and outfalls were inspected and maintained during routine operations or in response to a complaint. High incident structures were inspected more frequently. | Continue to inspect and maintain culverts and outfalls. |
| Revised | | | | | |
| 6L | Inspect and Maintain Stormwater BMPs | Highway Department | All stormwater BMPs functioning as intended | The Town of Hadley currently does not own or maintain any stormwater BMPs. There are several detention ponds and Vortechnic units in unapproved subdivisions that are maintained by outside establishments. | If necessary, inspect and maintain BMPs. |
| Revised | | | | | |

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 6 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|---------------|---|---|---|--|---|
| 1A Revised | Partnership Lake Warner – Mill River Steering Committee | Highway Department | Specific goals set by Lake clean-up organization | The Lake Warner – Mill River Steering Committee was dissolved during Permit Year 5. Hadley continues to work with the Stormwater Management Steering Committee and the Pioneer Valley Planning Commission (see BMPs 2B and 2E respectively). | No further action proposed. |
| 3C Revised | Dry Weather Screening and Video Inspection | Highway Department | Screen 20% of outfalls per year, video suspicious pipelines yearly | Screening in the urbanized area was completed in Spring 2006. No significant illicit connections were found. | Pursue additional illicit discharge detection efforts in locations outside the Urbanized Area as funding allows. |
| 4A Revised | Develop By-Laws for Land Disturbances Over 1 Acre | NPDES Steering Committee NPDES Steering Committee, Highway Dept., Planning Dept. | Drafting, public meetings adoption within three years | The Hadley Planning Board adopted an Erosion and Sediment Control for Stormwater Management bylaw on July 5, 2005. | Continue to enforce the bylaw and regulations. Explore additional erosion control enforcement measures as needed. |
| 6A Revised | Existing Spill Prevention Control Plans for Town Facilities | Highway Department | Revise plan/conduct annual training | A SPCC Plan was developed and implemented at the DPW yard in Permit Year 1. The SPCC Plan was updated and a training presentation prepared by the Town's Consultant in 2007. | Continue complying with the SPCC Plan. |
| 6C Revised | Incorporate the Use of Road Salt Alternatives for Deicing | Highway Department | Reduce the amount of road salt used by 25% Reduce the amount of road salt used by the Town | Highway used calcium chloride mix to reduce sand loads to the roadways. A total of 8,984 gallons were used during Permit Year 6. | Continue to explore salt reduction options. |

7a. Additions.

| | | | | | |
|---------|-----------------------------|--------------------|------------------------------------|---|---|
| 7A | Map outfalls to TMDL Waters | Highway Department | All outfalls mapped to TMDL waters | Hadley Highway Department staff completed a survey of all Town outfalls by 2005. All outfalls were field verified using a GPS and compiled on a GIS base map. | Continue to update the map to include any new outfalls located or installed along Town-owned roads. |
| Revised | | | | | |

7b. WLA Assessment

MADEP released the 2008 303(d) Integrated List of Waters in July of 2008. The updated 303d list outlines two waters in the Town of Hadley that are classified as Category 5 “Waters Requiring a TMDL”: the Fort River (3419425) and Mill River (3420175), both impaired for e.coli bacteria. Lake Warner (34098) is also listed as impaired for excess algal growth, dissolved oxygen, turbidity and phosphorus but not caused by a pollutant. Water quality concerns associated with 303d waters are addressed through the implementation of BMPs under the six minimum measures for Phase II. The approach for addressing impaired waters will be updated based on the new permit.

Part IV. Summary of Information Collected and Analyzed

The Town of Hadley has completed a map of all stormwater structures, including catch basins, manholes, culverts and outfalls. Approximately 400 catch basins and 100 outfalls have been located. Structure locations were imported into a GIS base map to form a complete map depicting all locations within Town limits. An illicit discharge sampling program was completed during Spring 2006 and focused on outfalls within the Town’s Urbanized Area. No significant illicit connections were found in the Urbanized Area storm drainage system.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

| | | |
|--|---------------|----------|
| Estimated number of residents reached by education program(s) | (# or %) | |
| Stormwater management committee established | (y/n) | Yes |
| Stream teams established or supported | (# or y/n) | No |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) | N/A |
| Household Hazardous Waste Collection Days | | |
| ▪ days sponsored | (#) | 1* |
| ▪ community participation | (%) | 3** cars |
| ▪ material collected | (tons or gal) | |
| School curricula implemented | (y/n) | No |
| *Hadley has an agreement with the Town of Amherst to allow residents to bring Household Hazardous Waste to the Amherst event. Amherst bills Hadley for resident participation. | | |
| **Car count from the October 2008 collection event. | | |

Legal/Regulatory

| | In Place Prior to Phase II | Under Review | Drafted | Adopted |
|--|----------------------------------|-----------------|---------|---------|
| Regulatory Mechanism Status (indicate with "X") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | | | X |
| ▪ Erosion & Sediment Control | | | | X |
| ▪ Post-Development Stormwater Management | | | | X |
| Accompanying Regulation Status (indicate with "X") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | | | |
| ▪ Erosion & Sediment Control | | | | |

| | | | | |
|--|--|--|--|--|
| ▪ Post-Development Stormwater Management | | | | |
|--|--|--|--|--|

Mapping and Illicit Discharges

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

*100% of outfalls within the Town.

Construction

| | | |
|---|------------|------|
| Number of construction starts (>1-acre) | (#) | |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | (%) | 100% |
| Site inspections completed | (# or %) | ~4 |
| Tickets/Stop work orders issued | (# or %) | |
| Fines collected | (# and \$) | |
| Complaints/concerns received from public | (#) | |

Post-Development Stormwater Management

| | | |
|--|----------|------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 100% |
| Site inspections completed | (# or %) | |
| Estimated volume of stormwater recharged | (gpy) | |

Operations and Maintenance

| | | |
|--|---|--------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) | (times/yr) | 50%/yr |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) | (times/yr) | 1/yr |
| Total number of structures cleaned | (#) | 200 |
| Storm drain cleaned | (lf or mi.) | |
| Qty. of screenings/debris removed from storm sewer infrastructure | (lbs. or tons) | |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) | | Landfill |
| Cost of screenings disposal | (\$) | |
| Average frequency of street sweeping (non-commercial/non-arterial streets) | (times/yr) | 3 |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr) | 3 |
| Qty. of sand/debris collected by sweeping | (lbs. or tons) | |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) | (location) | Fill at T.S. |
| Cost of sweepings disposal | (\$) | |
| Vacuum street sweepers purchased/leased | (#) | 2 owned |
| Vacuum street sweepers specified in contracts | (y/n) | |
| Reduction in application on public land of: (“N/A” = never used; “100%” = elimination) | | |
| ▪ Fertilizers | (lbs. or %) | |
| ▪ Herbicides | (lbs. or %) | |
| ▪ Pesticides | (lbs. or %) | |
| Anti-/De-Icing products and ratios | % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand | 8,984 gal |
| Pre-wetting techniques utilized | (y/n) | |
| Manual control spreaders used | (y/n) | |
| Automatic or Zero-velocity spreaders used | (y/n) | |
| Estimated net reduction in typical year salt application | (lbs. or %) | |
| Salt pile(s) covered in storage shed(s) | (y/n) | Yes |
| Storage shed(s) in design or under construction | (y/n) | No |