



COMPREHENSIVE  
ENVIRONMENTAL  
INCORPORATED

April 30, 2010

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

**Re: NPDES Stormwater General Permit  
2009-2010 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 2009-2010 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  
Gary Girouard, Director of Public Works, Town of Hadley, MA

Enclosure – NPDES Phase II Small MS4 General Permit 2009-2010 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

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**EPA NPDES Permit Number:** MAR041008

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**MaDEP Transmittal Number:** W- 222972

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**Annual Report Number  
& Reporting Period: No. 7: May 1, 2009 - April 30, 2010**

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

Contact Person: Gary Girouard Title: Highway & Water Dept. Superintendent

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

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Certification:

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

Signature: 

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Printed Name: David Nixon

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Title: Town Administrator

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Date: 4/30/10

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## 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 7 (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 Regional Planning Commission (see BMPs 2B and 2E respectively).	Continue to cooperate with the Stormwater Management Steering Committee and Pioneer Valley Regional Planning Commission on stormwater issues and to improve water quality.
1B Revised	Distributing Fact Sheets Brochures with Water Bills	Highway Department & Water Department	Distribution to all Hadley households  Annual Distribution to all Hadley households	Stormwater fact sheets were mailed to Town residents annually with water bills during permit years 1 through 7 which included general information on stormwater runoff, pesticides and fertilizer usage, pet waste disposal, residential vehicle washing, and proper disposal of hazardous waste.	Continue to distribute stormwater fact sheets to residents annually with water bills. Explore the use of additional public education materials.
1C Revised	Presentation of Educational Video on Public Access Cable.  Broadcast the Progress of the Phase II Program w/ Planning Board and Town Selectmen Meetings	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. The EPA video, “After the Storm”, was televised January 29, 30 and 31 in 2010.	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.

**1a. Additions.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
1D	Publish Stormwater Information on the Highway Website	Highway Department	Website posts on stormwater information. Record # of website hits	<p>Provided an advertisement for the annual October 3, 2009 Household Hazardous Waste event in Amherst. Updated the website to include the Annual Water Quality Report and a fact sheet on proper stormwater management which general information on stormwater runoff, pesticides and fertilizer usage, pet waste disposal, residential vehicle washing, and proper disposal of hazardous waste.</p>	Continue to update the website with information on stormwater. Publish erosion & sediment control and illicit discharge bylaws. Explore the use of a website 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 7 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Next Permit Term
2A Revised	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 Regional Planning Commission (see BMPs 2B and 2E respectively).	Continue to cooperate with the Stormwater Management Steering Committee and Pioneer Valley Regional Planning Commission on stormwater issues and to improve water quality.
2B Revised	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 as outlined in BMPs 3G, 4A, and 5A. 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, expected to occur during the next permit term. The Committee will review the new regulations to determine applicability to Hadley.
2C Revised	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 several times during permit year 7 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.
		Board of Selectmen / Highway Department	Public broadcast of meetings		

**2a. Additions.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
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 2 cars for the October 3, 2009 event. Types of waste included general household waste such as paint, chemicals and used motor oil. The HHW event was advertised on the website and through other media outlets 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 of Hadley residents.
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 Regional Planning Commission (PVPC) 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, expected to occur during the next permit term.
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 several 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 2010 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 7 (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 7.	Continue to update the drainage 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 7.	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 and complaints were received and addressed by the Highway Department as appropriate. 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. Provide contact information to residents on illicit discharges in water bills or tax bills in addition to current materials.
Revised		Police, Fire & Highway Departments			

**3a. Additions.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
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 3, 2009. Hadley worked with Amherst to allow its residents to participate in the collection event as in years past. The event was advertised in the local paper, on the Town website, and via the local cable channel. 2 residents of Hadley participated in the event as outlined in BMP 2A.	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. Explore ways to improve town attendance.
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 7.	Continue to update the map to include any new structures located or installed along Town-owned roads. Map additional structures in locations outside the Urbanized Area as funding allows.
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. No additional action was taken during Permit year 7.	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 7 (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. No additional action was taken during Permit year 7.	Continue to enforce the bylaw. 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.	Continue to enforce the current inspection program.
Revised					
4C	Pre-Construction Project Review	Planning Board / Highway & Conservation Commission	Require pre-construction review.	Construction projects were reviewed by the Conservation Commission and Planning Board to ensure environmental impacts were minimized. The Highway Department also worked with other Town departments to ensure proper design as necessary.	Continue to enforce current review methods.
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. All construction site issues for in Town were handled through the Highway Department and the Conservation Commission.	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			Address public concerns and phone calls		

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

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
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. No additional action was taken during Permit year 7.	Continue to enforce the bylaw.
Revised					

**5a. No additions at this time.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
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 7 (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. The SPCC Plan was followed at all applicable town facilities.	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 purchased 14,484 gallons of calcium chloride mix to reduce sand loads to the roadways. 725 tons of salt and 2,951 tons of sand were purchased for use during Permit Year 7.	Continue to explore salt reduction options.
Revised			Reduce the amount of road salt used		

**6a. Additions.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
6D Revised	Mark Storm Drains with Buttons or Stencils	Highway Department and Volunteers	Mark or stencil storm drains as funding allows	The Highway Department contacted other municipalities to inquire as to the success of their programs and investigated materials to use for marking basins. Pioneer Valley Regional Planning Commission (PVPC) previously labeled a number of structures; however the streets have since been repaved and labels covered.	Finalize the use of a stencil. Begin using Highway Department personnel to do marking around public well areas first. Expand the program as time and resources allow. Explore the recruitment of volunteers or the PVPC for marking or stenciling storm drains.
6E Revised	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 7. 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.
6F Revised	Track Catch Basin Cleanings	Highway Department	Sediment quantity records and dates cleaned of each catch basin	The Town recorded catch basin 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. Disposal occurred as outlined in BMP 6G.	Continue to record and date sediment accumulation for future cleaning priorities.
6G Revised	Properly Dispose of Catch Basin Cleanings	Highway Department	Disposal of catch basin cleanings at an approved landfill	The Town previously received DEP approval for reuse of catch basin cleanings as landfill capping material. Catch basin cleanings were temporarily stockpiled at the highway garage and sampled for environmental compliance before being removed by Solid Waste Solutions for proper disposal.	Continue to properly dispose of catch basin cleanings in compliance with DEP regulations.

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
6H Revised	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.
6I Revised	Properly Dispose of Street Sweeping Cleanings	Highway Department	Disposal of street sweeping cleanings at the Hadley Transfer Station	A total of 156 cubic yards of street sweeping residuals were generated from highway operations. 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 track quantities and properly dispose of street sweeping cleanings.
6J Revised	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.
6K Revised	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 as outlined in BMP 4D. High incident structures were inspected more frequently.	Continue to inspect and maintain culverts and outfalls.
6L Revised	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.

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

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
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 Regional Planning Commission (see BMPs 2B and 2E respectively).	Continue to cooperate with the Stormwater Management Steering Committee and Pioneer Valley Regional Planning Commission on stormwater issues and to improve water quality.
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. No additional action was taken during Permit year 7.	Continue to enforce the bylaw. 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. The SPCC Plan was followed at all applicable town facilities.	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	Highway purchased 14,484 gallons of calcium chloride mix to reduce sand loads to the roadways. 725 tons of salt and 2,951 tons of sand were purchased for use during Permit Year 7.	Continue to explore salt reduction options.

**7a. Additions.**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 7</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Next Permit Term</b>
7A Revised	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.

**7b. WLA Assessment**

The MADEP proposed 2010 303(d) Integrated List of Waters 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, non-native aquatic plants, 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	(%)	2** 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.		
**Hadley Car count from the October 3, 2009 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				
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### 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 %)	
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)	156 CY
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 <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	14,484 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