

EPA NPDES Permit Number : MA041007
Annual Report Number 10
Date : 3/14/13

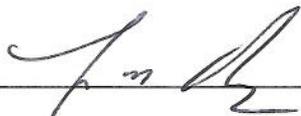
Town of Granby

NPDES PII Small MS4 General Permit Annual Report

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Self Assessment:

The Town of Granby continually strives to improve the maintenance and operation of our storm drainage system. Over the past ten years, we have attempted to incorporate best manage practices, BMP's into all our roadway reconstruction projects. We try to utilize grass swales, deep sump catch basins, and other appropriate techniques to mitigate erosion. We have also increased our efforts in the maintenance of our system. This year alone we have cleaned over 150 catchbasins.

We have maintained our membership in the Connecticut River Stormwater Committee. We make every effort to stay current with the training and seminars on Stormwater. We have sent employees to seminars such as "Cost Optimization of Stormwater" sponsored by Tetra Tech and EPA. Our financial support as well as our investment of time in these areas demonstrates our commitment to improving stormwater quality.

In general, we believe that we have taken all appropriate and practical steps to comply with the stormwater phase 2 permit requirements.

Appropriateness of BMPs:

As we have mentioned above and in previous annual reports, the Town of Granby has made a significant investment into stormwater improvements. We are a small town with limited resources yet we have managed improve maintenance operations. We have mapped our infrastructure with GIS. We believe that this mapping has been one of the most essential and worthwhile accomplishments of our stormwater program. We have found and located many lost or unknown catchbasins and stormdrain lines utilizing the GIS. These lost or unknown portions of our system were previously neglected and are now regularly being cleaned and maintained.

We have maintained our membership in the Connecticut River Stormwater Committee. We fully support the efforts of this committee. We believe that it is highly effective to pool our resources with the other communities in order to accomplish a successful public education and outreach program.

As we have discussed in previous annual reports, the majority of our storm drainage system consists of small isolated systems with a few catchbasins discharging to a nearby low area, wetland or stream. Illicit discharges to a small isolated system such as this would be readily apparent and easily tracked to a source. Over the past few years, our outfall inspections have yielded only a few suspect discharges. Because of this we do not believe that illicit discharges are a significant problem within our system.

In light of the above, it is our opinion that most of the bmp's outlined in our stormwater program are reasonable and appropriate for our system.

Progress Toward Achievable Goals:

The Highway Department was kept quite busy this past year dealing with the aftermath of the October 29, 2011 snowstorm. The initial cleanup of the debris from this storm was not complete until the spring of 2012. After this we were still trimming low hanging and damaged branches on trees throughout town for a substantial portion of the year.

Although the above work severely limited time available for other projects, we were able to keep current with routine maintenance on the stormdrain system. We performed our normal street sweeping operations. We completed our dry weather inspections of outfalls and managed to clean over 350 catch basins.

The Town of Granby has been engaged in conversations with representatives of the MacDuffie School regarding the potential of a sewer extension project to Belchertown. We also met with the MaDEP, the Town of Belchertown, and the engineers hired by the MacDuffie School to discuss this project. These discussions are only in the preliminary feasibility stage. If this project were to go forward, it could provide sanitary sewer connections to Granby residents with septic systems around the Forge Pond area. This is one area that has been identified in our Comprehensive Wastewater Management Plan where there is a high potential for problems with individual septic systems. We intend to pursue this option in order to determine if this project is economically viable.

In addition to the above we continue to invest in continuing education and training for our employees. As mentioned previously we have attended various seminars and continuing education courses throughout the year.

Specific achievements toward the various BMP's are detailed below and grouped under the individual BMP I. D. number:

- 1) The Local Storm Water regulations are in place. The proposed regulations have been reviewed by Town Counsel and the Sewer Commissioners. The sewer commissioners have incorporated the proposed regulations into the sewer regulations.
- 3) Troubled Waters brochures and posters are available at Town Hall. Posters are displayed at the Highway Department. Public outreach is also being accomplished through the Connecticut River Stormwater Committee advertising and presentations.
- 4) The Town of Granby is a member of The Connecticut River Stormwater Committee. This committee is providing outreach towards targeted groups. The DPW opened a waste oil collection center.
- 5) The Connecticut River Storm Committee has been very effective in providing public education and outreach in numerous venues. See attached report in appendix A
- 8) The Selectboard is looking for volunteers to appoint to the Connecticut and Chicopee River Watershed Councils. We have joined the Connecticut River Storm Phase II Committee. The Highway Superintendent is representing the Town on this Committee.
- 9) Household waste recycling days are held annually.
- 10) The DPW has previously enlisted the help of the local Girl Scout troop to stencil the catch basins. Their participation in this program seems to be declining therefore we will have to try to find another organizations to continue this effort.
- 11) We have also accepted community service volunteers that have been provided through the court system to pick up roadside trash and clean up at the parks. We have always encouraged and assisted any concerned residents and members of the Conservation Commission in coordinating roadside cleaning.
- 12) The Highway Department has always provided assistance for community cleanups. Also, we promptly try to pick up all large items that are dumped along the roadsides. We try not to let any accumulation occur in order to discourage and mitigate future dumping.
- 13) The Highway Department has purchased a hand held GPS unit and has mapped all storm drains and sanitary sewer systems. Data collection is complete. We have shared this data with the Conservation Commission and assisted them in establishing a GIS database for their use.
- 14) We have delivered paper maps of the stormdrain system to the Police and Fire Departments. We are continuing to work on mapping and organizing the data. We have purchased Arcgis software. Our staff has made significant progress incorporating this data into a GIS system.
- 15) We are continuing to perform annual inspections of the storm outfalls.

- 16) The proposed illicit discharge regulations have been adopted into our sewer regulations. As mentioned previously, we do not believe that the illicit discharge is a significant problem in our system, based on the information currently available.
- 19) As mentioned above, the town is working on a comprehensive wastewater management plan and a source water protection plan.
- 20) Same as above.
- 23) The Town has constructed a new DPW building. The new facility has enabled us to greatly improve our maintenance and housekeeping. We hope to begin working on a municipal operation plan in the near future as time allows.
- 24) We have purchased a catch basin cleaner. We have also created a database to better manage the maintenance of the stormdrain system. This has enabled us to substantially increase the number of catch basins that are cleaned each year.
- 25) We are planning to support training seminars for employees as time allows.
- 26) All ongoing road maintenance projects incorporate deep sump catchbasins and grass swales at a minimum.

Next Cycle:

We are awaiting issuance of the next NPDES permit from the EPA. Until this permit goes into effect, we will continue to proceed under our previous Ms4 permit. We are planning to continue our involvement with the Connecticut River Storm Committee. We hope to begin street sweeping operations in the near future. We expect to begin catch basin cleaning as soon as the sweeping operations are complete.

We are hoping to be able to increase the number of catch basin repairs and or replacements this year. Last year, due to increased workloads in other areas, we did not have the time to complete all of the needed drainage improvement projects.

The DPW representatives will continue to perform dry weather inspections of stormwater outfalls and continually monitor our system for sources of illicit discharges.

Changes:

Other than the increase in repair or replacement of existing catchbasins, we do not anticipate any significant changes to our stormwater program in the upcoming year. We believe that the overall stormwater program appears to be effective and appropriate for our community; therefore, no significant changes are planned for the next cycle.

Reliance on Others:

As we have mentioned in our reports over the past few years, roadway maintenance budgets have not kept pace with inflation. The result is that our local roads are falling into a severe state of disrepair. Pavement condition indexes continue to decline. Potholes and cracks increase allowing water to enter the pavement section thereby accelerating the further deterioration. This all leads to crumbling roads. We believe that the crumbling roads will become a very significant factor contributing to increased erosion and sedimentation within our storm-drainage system and watersheds in the future.

Small towns, such as ours, are heavily dependent on state assistance in the form of "chapter 90" money, to fund road maintenance budgets. The inability to raise local revenues coupled with budget constraints in other areas leaves us with little other options than to rely on the Chapter 90 assistance. The chapter 90 program must be increased significantly in order to preclude further degradation of our local transportation systems. The Massachusetts Municipal Association has studied this issue and has determined that the statewide allotment would need to be tripled from its current \$200 million dollars just to maintain our existing infrastructure. Currently, the State Legislature and Governor are discussing a \$100 million dollar increase. This will be helpful but even this is not enough to stop further deterioration. In addition, the longer we wait, the more expensive it will become to perform the needed repairs. It is a well documented fact that is much more cost effective to maintain pavements than to wait until they are totally destroyed and need complete reconstruction.

In light of the above, it is critical that increased State and Federal assistance be provided to the cities and towns. Without outside sources of revenue, the infrastructure will continue to deteriorate and could become a serious impediment to the storm phase II program in the future.

Program Summary:

See chart attached

STORM WATER MANAGEMENT PROGRAM SUMMARY

Mass. Transmittal No. _____
 EPA No. __041007 _____

Name: Town Of Granby
 Date: 3-21-13

BMP ID.	BMP	Responsible Dept./Person	Status	Measurable Goal
Minimum Control Measure 1				
1	Create a Stormwater Program	Selectmen/DPW/Planning/Health	Stormwater regulations adopted	Present to public draft stormwater management plan
2	Create a Stormwater Program	Selectmen/DPW/Planning/Health	Stormwater Regulations adopted	Identify sources of assistance to implement plan
3	Address specific groups	DPW	Brochures available at town hall	Distribute EPA and other relevant educational brochures.
4	Target groups likely to impact stormwater	DPW	Joined Conn. River Storm Committee/ Ongoing	Brochures targeting specific audiences and activities will be available.
5	Identify alternate information	Administrative Assistant/DPW	Stormwater Regulations adopted	Present to public draft of Comprehensive Stormwater Management Plan
6	Identify alternate information	Administrative Assistant/DPW	Ongoing through Conn. River Storm Comm.	Identify funding sources and apply for assistance to implement plan including education and outreach
7	Utilize local public access channel	DPW	In process/ when appropriate	Public meeting notices and reviewing SMP
8	Develop, conduct and document educational programs	Liaison/DPW	Looking for Volunteers Joined Conn. River Storm Committee	Town will appoint a liaison to Conn. And Chicopee river watershed councils
9	Promote household waste recycling	Board of Health/ DPW	On going annually	Sponsor hazardous waste collection days
Minimum Control Measure 2				
Public Participation				
10	Storm drain stenciling	DPW	Looking for group to assist Girl Scouts	Develop a stencil program.
11	Community clean ups	Conservation commission/DPW	ongoing	Encourage stream team cleanups
12	Community clean ups	DPW	Always available on request	Provide trucks and support efforts
Minimum Control Measure 3				
IDDE				
13	Inventory and Mapping storm drain system	DPW	GIS Data Collected in – house	Identify funding and obtain assistance
14	Mapping and identification of outfalls and	DPW/Assessors	GIS Data Collected in –	Develop and implement a plan to map outfalls to receiving waters

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	receiving waters		house annual inspections ongoing	Develop and implement an IDDE plan
15	Identification/description of problem areas	DPW	ongoing	
16	Enforcement procedures addressing illicit discharges	Planning/Building/Town Council/Board of health	Ongoing	Review whether local authority is appropriate and able to respond to illicit discharges.
17	Public information program regarding hazardous waste and dumping	Board of Health/DPW	Ongoing by Board of Health	Provide educational brochures to residents promoting proper disposal of household hazardous wastes and conditions for regional collections.
18	Initiation of recycling programs	Board of Health/DPW	Ongoing By Board of Health	Apply for funding assistance in public education and recycling materials
19	Watershed assessments and studies	Board of Health/DPW/Conservation		Identify opportunities for assistance to support watershed assessment and implementation activities.
20	Watershed assessments and studies	Board of Health/DPW/Conservation	Rural water currently working on Source Water Protection Plan	Encourage cooperation with public drinking water suppliers to develop wellhead protection plans
Minimum Control Measure 4 Construction Runoff Control				
21	Bylaw: Storm water management regulations for construction sites 1 acre or larger	Planning/Conservation/Town Council/Board of health/ZBA	Regulations adopted, Purchased software to manage permits	By law adopted
Minimum Control Measure 5 Post Construction Runoff Control				
22	Bylaw: Require post-construction runoff controls	Planning/Conservation/Town Council/Board of health/ZBA DPW	Regulations adopted	By law Adopted
Minimum Control Measure 6 Municipal Good Housekeeping				

STORM WATER MANAGEMENT PROGRAM SUMMARY

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23	Develop a municipal operations and Maintenance Plan	DPW	Proceeding as funding allows	Develop and update an operations plan
24	Develop a municipal operations and Maintenance Plan	DPW	Created Maintenance Database	Implement a formal inspection program
25	Develop and implement training programs for municipal employees	DPW	Ongoing	Send employees for training seminars
26	Review Storm drain Infrastructure	DPW	On going	Review infrastructure in chapter 90 utilization

APPENDIX A

**CONNECTICUT RIVER STORMWATER COMMITTEE
2012 ANNUAL REPORT
JANUARY 1 TO DECEMBER 31, 2012**

The following is a summary of the work of the Connecticut River Stormwater Committee during the 2012 calendar year:

Member Community	Committee Representative and Department
Agawam	Tracey DeMaio, Department of Public Works
Chicopee	Joe Kietner, Waste Water Treatment Division
Easthampton	Stuart Beckley, Planning Department; Jim Gracia, DPW
Granby	Dave Derosiers, Highway Department
Holyoke	Matt Sokop, Department of Public Works
Longmeadow	Chris Reed, Department of Public Works
Ludlow	Jim Goudreau, Department of Public Works
Southwick	Richard Grannells, Department of Public Works
South Hadley	Melissa Labonte, Department of Public Works
Springfield	Kevin Chaffee, Conservation Commission
West Springfield	Jim Lyons, Department of Public Works
Westfield	Charles Darling, Water Resources Department

Low Impact Development Code (LID) Review for Chicopee and Ludlow

The Pioneer Valley Regional Ventures Center (PVRVC) was provided mitigation funds in the amount of \$24,000 as the result of Clean Water Action’s Notice of Complaint against Ginmar Enterprises Inc. for use on projects related to stormwater benefiting water quality in the Chicopee River. The SEP addressed stormwater pollution for the improvement of water quality in the Chicopee River through: 1) education and outreach to chief elected officials in Chicopee and abutting communities; 2) develop innovative strategies for expanding green infrastructure for stormwater management including performance standards to reduce stormwater impacts from development; and 3) education and outreach to operators of industrial facilities within the Chicopee River watershed about proper best management practices for stormwater to reduce runoff and water quality degradation.

The Draft 2010 NPDES MS4 Permit for the Merrimack, Interstate and South Coastal regions issued October 24, 2010 requires MS4s to perform a local code review to assess the feasibility of implementing Low Impact Development (LID) techniques in new development and re-development at all scales. To address this requirement, PVPC developed a Green Infrastructure Checklist to use in reviewing local codes. The code review checklist was then implemented in the City of Chicopee and the Town of Ludlow, both communities share a border with the Chicopee River. From the checklist, two assessment and recommendation reports were generated for each community:

- Street and Parking Standards and Recommendations for Implementing Low Impact Development
- Local Regulation Review for the Feasibility of Having Low Impact Development

These reports present our assessments and recommendations regarding the landscaping of right-of-ways and parking lots, the curb and grade requirements of roadways and parking lots, and the dimension and layout requirements of streets, sidewalks, driveways, and parking spaces that influence the creation of impervious surfaces in right of ways, residential and nonresidential lots. The reports propose changes to the existing language of the zoning ordinances and subdivision regulations to allow for or encourage the use of LID integrated management practices. In making our recommendations of street, sidewalk, driveway, and parking lot dimensions, we referenced LID standards proposed in:

- Massachusetts Low Impact Development Toolkit by the Metropolitan Area Planning Council (MAPC), and
- “Better Site Design: A Handbook for Changing Development Rules in Your Community” by the Center for Watershed Protection, from which MAPC based their recommendations.

For Ludlow, the following bylaws and regulations were reviewed:

- a. Zoning Bylaws (version: May 14, 2012)
- b. Subdivision Rules and Regulations (effective: May 24, 2012)
- c. Smart Growth Overlay District Bylaw
- d. Design Standards for the town of Ludlow Chapter 40R Smart Growth Overlay District (version: May 13, 2011)
- e. Regulations for Construction within the Public Way (version: October 2012)

For Chicopee, the following ordinances and regulations were reviewed:

- a. current City Code Chapter 275
- b. Subdivision Regulations (April 7, 2005 version) for the right of way and parking lot guidelines that influence the creation of impervious cover

For each community the reports were submitted to the Planning Department and Department of Public Works for review and comment. The green infrastructure checklist and reports will also be presented to the Connecticut River Stormwater Committee at their February 12, 2013 meeting.

Outreach to Industrial Facilities

Also funded under the Clean Water Action SEP, PVPC performed outreach to industrial facilities with a NPDES Multi-Sector General Permit. The U.S. EPA Region 1 office provided a list of the NPDES Multi Sector General Permit holders in Hampshire and Hampden counties. During the summer of 2012, PVPC reviewed electronic submissions of their annual NPDES reports, and conducted phone interviews with a representative at each company to discuss their MSGP annual report submittals and to identify if training and/or outreach was needed to help them comply. Surprisingly, each of the representatives spoken to could not identify further training

and/or assistance needed. Overall, there seemed to be a lack of interest, or perhaps a wariness, to talk with a representative outside of their company about this regulatory compliance issue despite the fact that we emphasized that we were not a regulatory or enforcement entity. This wariness should be considered when conducting future outreach, and some means to incentivize the discussion needs to be considered.

Building Inspectors Workshop Planning

In follow up to the two workshops sponsored by PVPC on Green Infrastructure and Low Impact Development for municipal officials (1/30/12 Best Management Practices; 2/13/12 Exploring the Possibilities: Building Green Infrastructure in Your Community), we attempted to plan a third workshop targeting building inspectors. Building Inspectors are generally the Zoning Code Enforcement Officers as well as the entity that signs off on Building Permits. It is important that they are knowledgeable about green infrastructure, local stormwater bylaws, and the NPDES MS4 requirements and overview. Our intention is to work with the Western Mass Building Inspectors Association to co-host this workshop at one of their existing meetings to draw a larger crowd. It is our intention to offer CEUs for the workshop. However the Association contacts have been unresponsive for 8 months now. The Southwick Building Inspector offered to help contact the organization as he is a member, but he has not been able to connect us with the Association. This effort has been tabled until further notice.

TURI Grant – Organic Landcare at 5 Municipal Parks – Spring Outreach Events

2012 was the second half of a one year grant (September 2011 – June 30, 2012) from the Toxics Use Reduction Institute (TURI) at UMASS Lowell to promote organic landcare at municipal parks. PVPC received a Toxics Use Reduction Institute Grant (TURI) from UMASS Lowell to transition five municipal parks to organic land care programs. Participating parks included:

- *School Street Park, Agawam* - Within walking distance of the Connecticut River, School Street Park features 50 acres of land with four multi-purpose athletic fields, a handicap accessible playscape, a basketball court, shuffleboard and bocce ball courts, walking trails, picnic tables, and a historic barn. The park has a high volume of adult and children using the park.
- *Look Park, Northampton* – Look Park offers recreational opportunities for walkers, runners, bikers, etc. One of the focal points of the park is a grass 2,200 person capacity outdoor concert theatre. Earlier this year, through the use of a TURI grant this outdoor theater transitioned to a petrochemical and pesticide free venue.
- *Greenwood Park, Longmeadow* – The Park abuts Greenwood Center which houses the Council on Aging and the Longmeadow Park and Recreation Childcare Center. The Childcare Center uses Greenwood Park daily for its outdoor activities, as does the Council on Aging for certain seasonal events.
- *Town Center Park, Ludlow* – The Town plans to, with the help of this grant, transition a park where the summer community concert series is held pesticide and petrochemical free. The park is located in a highly visible area in the center of Town and the concert series is well attended.
- *Wistariahurst Museum grounds, Holyoke* - In 1959, Wistariahurst was given to the City of Holyoke for cultural and educational purposes. The grounds contain extensive

ornamental gardens and an expansive lawn. The Museum is home to the Master Gardener's Association and hosts weekly meetings and multiple plant sales and regional conferences throughout the year.

In 2012, the following outreach events were held:

- Friday, March 16, 2012 - Going Organic for Landscape Contractors 8am-noon – workshop for traditional landscape contractors, co-sponsored by Valley Green in Holyoke.
- Tuesday, April 24, 2012 – Week of the Young Child Parade, Ludlow –Think Blue display booth, donated the story walk “All the Way to the Ocean” by Joel Harper.
- Saturday, April 28, 2012 -Agawam Little League Jamboree and Earth Day celebration Think Blue display booth
- Saturday, May 12, 2012 – Look Park Lawnathon with Paul Tukey of Safelawns Foundation
- Saturday, May 19, 2012 – Longmeadow Days on the Town Common – Think Blue display booth with the DPW

EPA Soak Up the Rain Campaign

EPA has requested our assistance in promoting their new “Soak Up the Rain Campaign” by promoting rain gardens and other LID systems in the Pioneer Valley. PVPC is in negotiation with EPA about establishing a contract for programming in 2013.

Outreach and Training Events

“Skip the Scotts” at the Western Mass Master Gardener’s Annual Symposium on Saturday, March 31, 2012 at Dean Technical High School in Holyoke. This workshop targeted residential lawn owners about how to transition to organic lawn care practices.

The Green Infrastructure Workshop presentations (1/30/12 BMPs; 2/13/12 Exploring the Possibilities: Building Green Infrastructure in Your Community) are available at: <http://www.sustainableknowledgecorridor.org/site/content/green-infrastructure>

Updated Greenscapes Guide

In collaboration with the Greenscapes Coalition, the Greenscapes Guide was updated. Copies were distributed to member communities for distribution at town offices, and are available at outreach events.

Community Innovation Challenge Grant Application

PVPC submitted a \$500,000 grant application to the MA Department of Finance and Administration’s Community Innovation Challenge Grant Program for the following services:

- Task 1: Storm sewer database software implementation with mobile device application
- Task 2: Outfall Mapping, Monitoring, and Illicit Detection Program
- Task 3: Model Stormwater Pollution Prevention Plans (SWPPP) for MS4 Owned Facilities
- Task 4: Pilot Cost Optimization Modeling for Nitrogen Removal
- Task 5: Regional Education and Outreach Utilizing PVPC’s Think Blue Campaign

The grant was not funded due to a significant budget cut by the Governor.

General Administration

- FY12 Work Plan and Budget (July 1, 2012 – June 30, 2013)
- Many Stormwater Committee members also participated in the development of the Pioneer Valley Green Infrastructure Plan, coordinated by Patty Gambarini at PVPC. The GI Plan provides a detailed analysis of opportunities for green infrastructure in the Pioneer Valley, and sets for the plan for implementing more projects in the coming years. The Stormwater Committee will continue to participate in promoting green infrastructure.
- Meeting Dates – The Stormwater Committee met four times in 2012:

February 3, 2012

April 5, 2012

June 8, 2012

September 10, 2012