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Annual Report Number 8
Date : 4/08/11

Town of Granby

NPDES PII Small MS4 General Permit Annual Report

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Self Assessment:

The Town of Granby is moving forward with several programs to improve our natural resources and protect the environment. First, a comprehensive waste water management plan is being prepared for the Town. This plan will be used to determine our current and future sanitary sewer needs and potentially locate areas with septic system deficiencies. The plan is being prepared by AECOM Inc. They are still working on the report and to date have provided preliminary updates and drafts, but the final plan is expected to be available in the near future.

The Town of Granby is also in the process of preparing a source water protection plan. A source water protection committee was formed to work with Bruce Young from Mass Rural Water Association to prepare the plan. The committee has representatives from the Board of Health, Conservation Commission, Highway Department, and the Planning Board. Preliminary Drafts have been prepared for portions of the town but the work is expected to be ongoing over the next few years.

As mentioned in previous annual reports, we are pleased to report that the Town of Granby has been fairly successful in accomplishing most of the intended objectives set forth in the initial storm phase II permit cycle. Some of our accomplishments are as follows:

- 1) We have collected data and prepared GIS maps of our entire stormdrain system. This accurate global positioning data along with electronic databases used to record routine maintenance allows us to better manage our stormdrain system.
- 2) The Town purchased a used Vactor Truck and Jet Rodder to clean catchbasins and pipes. We are finding this to be very cost effective. We can perform much more work with our own forces than we would be able to afford if we were contracting out all the services.
- 3) We have joined the Connecticut River Stormwater Committee. We are very pleased with the work of this group and believe that it has been very effective in the public education and outreach portion of our program.
- 4) We have adopted Stormwater By-Laws and have the enforcement process in place to administer the regulations.
- 5) We calibrate all of our computerized sanders to minimize the amount of road sand and de-icing materials needed during winter storms. We also have our own street sweeper that allows us to pick up road sand as soon as possible.
- 6) Any repairs to the existing storm drainage system and road maintenance projects incorporate improvements to the storm drainage systems where practical. Typically, all catchbasins are increased to deep sump basins and grassed swales are used to the greatest extent possible for stormwater detention.
- 7) We have found a few illicit discharges into our system and we have worked with the Board of Health to remove all known problems. This year a failed septic system was located on East Street. The Board of Health is working with the homeowner to repair the septic system and eliminate this source of pollution from entering a nearby stream.
- 8) We have established a waste oil collection facility at the DPW to encourage proper disposal of used motor oils. The program has become so successful that we are able to utilize the waste oil as our primary source of heat for the garage area of the Highway Department.

Last year the Granby Highway Department was very busy with several large road reconstruction projects. Unfortunately, the scope of these projects, coupled with an early and severe winter, adversely impacted our ability to complete our normal catch basin cleaning last year. We are currently performing springtime street sweeping operations and plan to commence catch basin cleaning immediately upon completion. We hope to be back on schedule with the catchbasin cleaning in the near future.

Appropriateness of BMPs:

We believe that our stormwater program has yielded many positive results. At times, it has been challenging to budget the manpower and resources necessary to comply with the stormwater program. We have been forced to perform many duties in-house and seek the most cost effective solutions to the problems. Any regulatory changes can be a financial burden to a small town but thus far the program has been manageable; therefore, it is our opinion that the BMP's have been effective and reasonable for a small community.

Progress Toward Achievable Goals:

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 Police Station and 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 enlisted the help of the local Girl Scout troop to stencil the catch basins. This work will be ongoing.
- 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 individuals such as Cindy Watson 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) Easton and Carver Street projects are complete. Deep sump catchbasins were installed to replace the existing shallow basins. All ongoing maintenance projects incorporate these types of improvements at a minimum.

Next Cycle:

We plan to continue our participation as a member of the Connecticut River Storm Phase II Committee. We believe that the Pioneer Valley Planning Commission has been doing a great job with the public education and outreach component of our program. We believe that pooling the resources with surrounding communities has been a very cost effective method to achieve the maximum exposure to the largest audience.

As mentioned previously, last year we did fall behind on catch basin cleaning due to labor availability and weather constraints. We are currently performing spring street sweeping and expect to begin catchbasin cleaning in the near future. We hope to be back on schedule with all catchbasin maintenance this summer.

The DPW representatives will continue to perform dry weather inspections of stormwater outfalls and continually monitor our system for sources of illicit discharges. As mentioned in previous reports, we do not believe this is a significant problem in our system but we did locate one failing septic system last year. In light of this, we plan to provide a similar effort in this area for the upcoming year.

Other than placing additional effort in order to eliminate the catchbasin cleaning backlog, we anticipate no major changes to the program over the next year.

Changes:

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:

Over the last few years, the local Girl scouts have become involved with stormdrain stenciling and some community cleanup projects; however, there have been very few other groups that have come forward to embrace or support stormwater projects. We will continue to provide encouragement but we have not been very successful in attracting participation from other groups or individuals.

While keeping up with roadway maintenance projects is essential to mitigate erosion and sedimentation, small departments such as ours are forced to make difficult choices because our budgets and staff limitations do not allow us to complete everything that we would like to accomplish. Even though this is a critical component of stormwater management, the overall condition of our roadways and pipe systems are continuing to deteriorate. Ever increasing costs due to inflation coupled with austere budgets are taking its toll on the infrastructure. This is a huge concern to us as the new permit cycle approaches. We have briefly voiced our concerns in previous annual reports but we would like to reiterate our position that blanket mandates in the new permit could have many unintended adverse impacts. Simply performing mandated duties (such as sampling and testing of outfalls) may not necessarily result in improvements to stormwater if the critical maintenance of our infrastructure is neglected as a result. Regulatory goals and targets may be appropriate for larger systems but for small rural systems it is necessary to exercise good judgment and flexibility in managing a system with limited resources.

It is a sad fact of society today that there appears to be very little public support or political appetite to raise taxes in any area. Yet, everyone would like to have improved services, better roads and a cleaner environment. Unfortunately, there is no free lunch and there are costs associated with all actions. Simply increasing the burdens or duties required on already financially strapped small towns without providing a revenue source to cover the increased costs will simply divert monies from other critical areas.

At the present time, we are barely able to keep pace with the most critical maintenance items. If new large regulatory burdens are placed upon us during the next permit cycle or additional funding cuts from the State or local budgets occur, our ability to comply with the Stormwater programs will be in jeopardy.

Program Summary:

See chart attached

STORM WATER MANAGEMENT PROGRAM SUMMARY

Mass. Transmittal No. _____
EPA No. 041007 _____

Name: Town Of Granby _____
Date: 4-2-11 _____

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	Girl Scouts in progress nearly completed	Develop a stencil program.
11	Community clean ups	Conservation commission/DPW	Girl Scouts 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

Name: Town Of Granby

Date: 4-2-11

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STORM WATER MANAGEMENT PROGRAM SUMMARY

Mass. Transmittal No. _____
EPA No. __041007__

Name: Town Of Granby
Date: __4-2-11__

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
2010 ANNUAL REPORT
JANUARY 1 TO DECEMBER 31, 2010

The following is a summary of the work of the Connecticut River Stormwater Committee during the 2010 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
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
South Hadley	Melissa Labonte, Department of Public Works
Springfield	Joe Kietner, Conservation Commission
West Springfield	Jim Lyons, Department of Public Works
Westfield	Charles Darling, Water Resources Department

Pilot Projects

PVTA Buses

The Think Blue campaign launched new outreach this year on the Pioneer Valley Transit Authority's (PVTA) buses. During 2010, the design and structure of the PVTA outreach was completed. The program will include the Think Blue cigarette butt and dog poop PSAs, formatted horizontally as billboards on both the outside and inside of the buses. The exterior billboards are 30"x80" full color mounted on the passenger-side of the bus. The interior billboards are 11"x28" full color mounted on the interior of the bus.

The campaign will run February 1 – July 1, 2011 out of the Northampton PVTA garage (Routes R42 Northampton to Williamsburg; R43 Northampton to Amherst; and R48 Northampton to Holyoke) and July 1, 2011 – January 31, 2012 out of the Springfield Garage (Routes to be determined). Cost for the campaign is \$6,500 for one year and includes 50 free interior PSAs. The entire cost of the program will be covered by an EPA Targeted Watershed Initiative Grant awarded to PVPC. A portion of the EPA grant is to conduct outreach about stormwater pollution. Given this projects potential to reach a very wide audience across the Pioneer Valley, it was deemed an appropriate use of EPA funds.

Movie Theaters

The Stormwater Committee once again revisited the idea of running Think Blue PSAs in local movie theaters prior to the movie previews. Price quotes were considerably higher than anticipated at \$8,000 for 13 weeks. This included cinemas in West Springfield, Springfield Plaza and the Eastfield Mall. Because of the high cost and limited network, the Committee decided not to proceed with this outreach media at this time.

Local Mall Postings

In late 2010, the Stormwater Committee investigated the possibility of placing poster size PSA in local malls. The Hampshire Mall on Russell Street in Hadley and the Holyoke Mall at Ingleside in Holyoke will place eight (8) 22"x28" mounted lightweight poster boards of the cigarette butts PSA at each of the malls. The posters will be installed on April 1, 2011 at no charge.

Local Media Outlets

The Think Blue lawn fertilizer PSA ran as a 1/8 page ad in the September 2010 Turley Publications: *Agawam Advertiser News*, *Chicopee Register*, *Country Journal*, *Holyoke Sun*, *Ludlow Register*, and *South Hadley Town Reminder*.

Local cable access stations were contacted in follow up to our initial outreach to them three years ago. PVPC provided an updated CD with the radio, video and poster PSAs for posting on cable access television as well as town websites.

Greenscapes

Outreach Materials

The design of a Greenscapes program display remains on-going, seeking to promote brand recognition as well as the best messaging to promote behavior change that reduces pollutant loading through land care practices. A 6'x8' large format display has been designed by PVPC and works well as a backdrop for a table display at an event. This display was used at the Ecological Landscaping Association's annual conference in February 2010. A 3-sided tabletop version has been designed with bulleted tips about organic land care practices including mowing tips, healthy lawn tips, and watering tips.

A Greenscape Kit is now available for people who call requesting more information about organic land care practices. It is essentially a 2-sided pocket folder that contains all of the outreach materials we currently use on this topic. The Think Blue magnets and pet waste flier are also included.

In partnership with the Greenscapes Coalition in eastern Massachusetts, a flier entitled "Can you reduce your daily water use by 5 gallons?" is now available. The flier promotes water conservation through various land care practices.

Greenscapes Regional Meeting 12/1/10 in Boston

The Greenscapes Coalition, mostly based in eastern Massachusetts, is gearing up for the 2011-12 land care season. Members are very interested in tailoring Greenscapes to better address the priorities identified for education and outreach in the 2010 MS4 permit. The Stormwater Committee will continue to partner with the coalition in the development of new outreach materials and methodologies for promoting organic land care practices to abate stormwater pollution.

Distribution of "Preventing Stormwater Pollution" Factsheets update

Utilizing DLTA FY09 funds, we have completed three one-page factsheets about stormwater best management practices targeted at the restaurant industry, the automotive industry, and small

business. These commercial target audiences were chosen based on the Draft North Coastal 2010 NPDES MS4 Permit. Larger affiliation/membership organizations as well as local regulators to seek their assistance in distributing the factsheets to their membership.

Automotive Guide - *distribution 7,971 people/businesses*

New England Service Station and Automotive Repair Association – Automotive BMP factsheet emailed to 171 member list serve in March 2010. Organization also interested in having a presentation on this issue at their annual meeting in December.

Massachusetts Vehicle Check: Cleaner Air and Safer Roads, MA DEP and RMV – Provided short article about Think Blue and a link to the flier on our website in the Fall 2010 *Inspection Update* newsletter mailed to 7,800 people statewide.

Food Industry Guide – *distribution 508 people/businesses*

Massachusetts Restaurant Association – Food industry BMP guide distributed at organization event in March 2010 (200 fliers).

Community Involved in Sustainable Agriculture (CISA) – Information about the Think Blue campaign and a link to the .pdf version of the guide appeared in the May 2010 issue of the Local Hero newsletter (308 newsletters).

Green Restaurant Association – Attempted to contact between February and March 2010 but non-responsive.

New England Food Show, Boston, MA – Food show involves a large list of participants but difficult to reach via conference programming.

Small Business Guide – *distribution 1,164 people/businesses*

Chicopee Chamber of Commerce – Included 300 fliers in a March 2010 membership mailing.

Greater Easthampton Chamber of Commerce – Included 400 fliers in a March 2010 membership mailing.

Holyoke Chamber of Commerce – Included 464 fliers in a Spring 2010 membership mailing.

The following Chambers were non-responsive to requests to distribute flier: Agawam, East Longmeadow, Longmeadow, South Hadley, Springfield, and Greater Westfield Chambers of Commerce.

School Curriculum CD Distribution Update from Communities

The curriculum developed by Selser Memorial School in Chicopee under our FY09 programming has been scanned and converted to a .pdf. The .pdf was posted to PVPC's FTP server where members could download it and distribute copies to schools in member communities.

Agawam is working with the Superintendent of Schools and the district Curriculum Coordinator to identify places under MCAS Strands where there are water pollution related opportunities for grades 4-9. Agawam is also sponsoring the "Watershed Waltz" puppet theater about watershed ecology for interested schools.

Connecticut River Water Quality Monitoring Project

PVPC has been involved in on-going E. coli monitoring of the CT River for the past three years. Monitoring in 2008 and 2009 was funded under an EPA Targeted Watershed Initiative Grant. Monitoring in 2010 was funded by a MA DEP 604b ARRA grant. This year we are also expanding the monitoring to area tributaries. The data is available for public viewing at: <http://www.umass.edu/tei/mwwwp/ctrivermonitoring.html>

NPDES MS4 Notice of Intent and Scope of Work for Education and Outreach Measure

The Draft 2010 NPDES MS4 Permit for the Merrimack, Interstate and South Coastal regions was issued October 24, 2010. The Pioneer Valley region is covered under the "Interstate". A draft scope of work for addressing the 2010 Draft MS4 Permit requirements was developed for review at the January 2011 meeting. In general, businesses and developers will be targeted in years 1, 3 and 5; residential and industrial facilities in years 2 and 4.

Based on the North Coastal 2010 Permit, there are several new requirements for Education and Outreach in the new NPDES MS4 Permit. These requirements are as follows:

- a. Four target audiences:
Residents, businesses, institutions, and commercial facilities
- b. Define goals of the outreach program and objectives of changes in behavior and knowledge
- c. Distribute a minimum of two (2) educational messages over the permit term to each audience
- d. Messages to each audience must be spaced at least a year apart
- e. Show evidence of focused messages and audiences as well as demonstrate the defined goal of the program has been achieved
- f. Identify methods to evaluate effectiveness of program (behavior modification and increased awareness)

Given these new requirements a Draft Scope of Work for Stormwater Committee for new 5-year permit term needs to be developed for compliance. The following approach has been identified to meet permit requirements:

1. Define each of our target audiences more specifically. For example, residents = pet owners and lawn owners; two distinct groups of residents generating different pollutants.
2. Define behavior by target audience and pollutant associated with behavior.
3. Define message and outreach/delivery methodology
4. Determine mode for measuring effectiveness of outreach at: behavior modification, and pollutant load reduction.

Community Outreach

MA DEP 319 Grant Stormwater Training Sessions and Survey Summary

PVPC has partnered with VHB and a number of other organizations across the state to offer training on stormwater related issues. PVPC distributed a questionnaire with 16 potential

workshop topics to the 22 MS4s in the region to determine priority topics for a workshop that would be offered in the Fall of 2011. Priority topics based on survey results included: MA Stormwater Regulations; building an effective stormwater maintenance program; stormwater utilities; and planning and designing better development sites. The workshop has been scheduled for September 20, 2011.

DLTA FY10 – Regionalizing Stormwater Services Feasibility Study

PVPC received funding to examine ways regionalizing services can provide cost savings to communities. One of the pilot feasibility studies examined operation and management of stormwater related services such as catchbasin cleaning, street sweeping, MS4 permit requirements such as outfall mapping and monitoring. Due to the delay of issuance of the 2010 Interstate MS4 permit, committee members opted to not guess at their new requirements but rather focus on the work they currently perform and ways it could be accomplished through regional cooperation. The project resulted in an Invitation for Bid for Regional Highway Department Services issued jointly between Agawam, Chicopee and West Springfield. Bid results were due March 8, 2011 and resulted in 4 contracts for services in the region.

Other Outreach Events

Think Blue and Greenscapes materials were distributed at the following events:

- Wednesday, April 14, 2010 @ 6:30 pm Wistariahurst Museum, Holyoke – Western Mass Gardner's Club – "Getting your Lawn Off Drugs: Why this so important for our local waters
- Saturday, April 17, 2010 Agawam Earth Day Festival Think Blue Display
- Monday, April 5, 2010, Channel 22 News – coverage of area flooding and across New England due to 15 inches of rain. Discussed watershed dynamics and importance of stormwater management
- "Keep Springfield Beautiful" and Earth Day cleanup events
- Granby – Farmer's Market sponsored by the Agricultural Commission

General Administration

- FY10 Work Plan and Budget
- Water Infrastructure Finance Commission Hearing
Monday, November 15, 2010 @ 10 a.m. at PVPC
The Water Infrastructure Finance Commission was appointed by the Governor to develop funding options to finance water infrastructure needs throughout the Commonwealth. PVPC hosted one of four statewide hearings. Communities across western Massachusetts attended.

- Meeting Dates – The Stormwater Committee met four times in 2010, and on two other dates about relevant business:

December 10, 2009

April 12, 2010

June 15, 2010

August 18, 2010

November 3, 2010

January 26, 2011