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# MS4 General Permit

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Annual Report 2016

*Town of Bethel, Connecticut*  
*Department of Public Works*

1 School Street  
Bethel, CT



## Introduction

This document presents a summary of the Town of Bethel's efforts to comply (for 2016) with its storm water management program as called for by the United States Environment Protection Agency (USEPA) and Connecticut Department of Energy & Environmental Protection (CTDEEP) under the Phase II Municipal Separate Storm Sewer Systems (MS4) General Permit. Each of the six Minimum Control Measures are listed below, along with information regarding completion or alteration of the tasks set forth in Bethel's original Stormwater Management Plan (SWMP).

## Stormwater Management Plan, Minimum Control Measures

For each Minimum Control Measure, the Town of Bethel has defined appropriate Best Management Practices (BMP's); designated a person(s) and responsible for each BMP; defined a schedule for implementation of each BMP; and defined measurable goals for each BMP. The Minimum Control Measures and pertinent data for the Town of Bethel Stormwater Management Plan are listed for each Minimum Control Measure as follows. Each measure proposed in the original SWMP plan is listed below; progress made on the measure in each year follows in boldface. The measures listed below are presented in their order of appearance in the SWMP.

### (1) Public Education and Outreach on Stormwater Impacts

#### BMP 1-1 Educational Brochures & Fact Sheets

The goal of the educational program is to present our residents with handouts and fact sheets that involve the topic of Stormwater Pollution. The Town of Bethel has handouts and brochures located in the Department of Public Works (DPW) and Planning & Zoning. **Handouts providing resources with information on various Stormwater topics (Bethel Citizens Guide) (Protecting Our Water – Runoff) are available within the Town Hall.**

#### BMP 1-2 Educational Video

The goal is to reach a large number of audience members by broadcasting video in schools, online and through the Bethel Cable Access Television. **Plans to broadcast Stormwater video selections will be established in 2017.**

#### BMP 1-3 Educational Seminars & Workshops

The Town will present materials at existing town-sponsored functions and events such as Earth Day to increase public awareness. **Handouts and brochures are available to the public which are updated and research is being done during the year to make sure the most recent information is available.**

#### BMP 1-4 Website Development

The goal is to develop a link on the Department of Public Works web page dedicated to Stormwater Awareness with all brochures, handouts, fact sheets, plans for individual facilities and the town-wide SWMP available for the public. **The Department of Public Works has created a dedicated website link on the Town of Bethel's website.**

#### BMP 1-5 Newspaper Article, Publications

An article will be released in the Danbury News Times yearly or once every two years to improve public awareness. **The Town of Bethel is currently working with a local publication to have an article printed in 2017.**

#### BMP 1-6 Household Hazardous Waste Days

Hazardous Waste Days is a local HRRRA program that Bethel is involved with and attends twice a year. We attend this program to create awareness about household waste and to remove household hazardous waste safely. **Bethel will continue its current program of attending HRRRA sponsored events on May 20, 2017 and September 23, 2017 as we did this year. This program has been working for the Town of Bethel and less hazardous waste has been taken to the Transfer Station.**

#### BMP 1-7 Catch Basin Stenciling

Town-owned catch basins in recreational and other high pedestrian volume areas will be identified and targeted for stenciling. Stenciling is done to prioritize and maintain the catch basins and make sure they are clean and there are no blockages. **The Town of Bethel will continue with this program with the assistance of local volunteer groups.**

### **(2) Public Involvement & Participation**

#### BMP 2-1 Public Involvement & Participation Program

Stormwater Committee. **The Stormwater Committee will continue to meet and revise SWMP and assist with implementation. In following years we will need to identify additional town and regional staff and volunteer groups that are also a part of the Stormwater Committee and should be attending the meetings held annually at a minimum.**

#### BMP 2-2 Comply with State & Local Public Notice & FOI Requirements

SWMP and Annual Reports will be available for viewing by the public on our website. **The Town is working on a comprehensive communication place that will provide necessary information via a webpage.**

#### BMP 2-3 Public Meetings

The Town of Bethel is to provide a public forum to solicit feedback on the management and implementation of the SWMP. **A plan to engage and solicit feedback from the public is being prepared to be put into action for 2017.**

### **(3) Illicit Discharge Detection & Elimination**

#### BMP 3-1 Town Drainage System Mapping (>15" in UA)

#### BMP 3-2 Town Drainage System Mapping (>15" Town-wide)

#### BMP 3-3 Town Drainage System Mapping (>12" in UA)

Create Town Drainage Maps for BMP 3-1, 3-2, and 3-3. **The Town of Bethel is currently updating its GIS based drainage maps.**

#### BMP 3-4 Illicit Discharge Elimination Program

The Town will develop a program to address the elimination of illicit discharges. **This program will be established once all mapping is completed and input into the GIS.**

#### BMP 3-5 Ordinance Review & Revisions

Town ordinances and policies will be updated to prohibit illicit discharges. **The Town of Bethel continued to make revisions/modifications for any policies as in previous years and we plan on continuing our methods in the following years as needed.**

#### BMP 3-6 Outfall Inspection Monitoring

Outfall Inspection Program-Monitoring. **The Town followed the current inspection program. The program will be expanded to include dry inspections.**

#### BMP 3-7 Outfall Inspection Training

The Town of Bethel will implement a staff- training program on inspection protocol, identifying illicit discharges and town policies on prohibiting non-stormwater and illicit discharges. **There is an on-going effort by the Town to educate and train staff. BMP works and the Town of Bethel will continue as needed.**

### **(4) Construction Site Stormwater Runoff Control**

#### BMP 4-1 Regulations Review & Revisions

Town ordinances, zoning and subdivision regulations will be revised to require erosion, sediment and stormwater control measures for all construction activities involving land disturbance greater than one-half acre. All erosion and sedimentation control measures will be in accordance with CTDEP's *Guidelines for Soil Erosion and Sediment Control, 2002* (as amended) the *Connecticut Stormwater Quality Manual*. **The Town of Bethel continued policy and procedure, BMP works so we will continue to follow policy in following years.**

#### BMP 4-2 Fact Sheets

A notification fact sheet will be developed to be distributed with all building and land-use permits to contractors, site developers and operators. **Continued to hand out fact sheets, BMP works so we will continue to follow policy.**

#### BMP 4-3 Plan Review

Town staff reviews design plans and erosion and sediment control plans for compliance with CTDEEP's *Guidelines for Soil Erosion and Sediment Control, 2002* and the *Connecticut Stormwater Quality Manual*. **The Town of Bethel continued its efforts in this regard; BMP works so we will continue to follow policy in following years.**

#### BMP 4-4 Inspection & Enforcement

The town program will provide a sufficient level of construction inspection and enforcement to ensure that erosion and sedimentation and stormwater control measures are installed and maintained properly. **The Town of Bethel continued policy and procedure, BMP works so we will continue to follow policy in following years.**

#### BMP 4-5 Inspection Training

Town staff will continue attend DEEP sponsored training programs on inspection protocol to ensure that erosion, sedimentation and stormwater control measures are installed and maintained properly. **Staff will continue to take advantage of DEEP training opportunities.**

### **(5) Post-Construction Stormwater Management in New Development & Redevelopment**

#### BMP 5-1 Develop Post-Construction Regulations

The zoning and subdivision regulations will be revised to require stormwater quality BMP's both structural and non-structural for stormwater control and pollutant removal. **Continue to make revisions and modifications to better the pollution levels.**

#### BMP 5-2 BMP Strategy

The Town will develop a comprehensive system of standardized BMP's that can be applied in applications to all town agencies regulating development, designed to control the quality of discharges and, where appropriate, the quantity of discharges. **Started working on standardized list BMP's in following years the town needs to work on implementation.**

#### BMP 5-3 Post-Construction Inspection & Maintenance

Establish a program of post-construction inspection, maintenance and enforcement of regulations at town-owned facilities and structures. **Continue working on SWPPP and SPCC plans to keep in line with the requirements of the Permit.**

#### BMP 5-4 Plan Review

The existing plan review program ensures the review of plans for any construction activities greater than one-half acre. Town staff will review design plans and calculations for compliance with town regulations. Plan review will continue to be conducted during permit application process for Inland Wetlands permits, zoning compliance permits and site development planning & zoning permits. **The Town of Bethel continued policy and procedure, BMP works so we will continue to follow policy in following years and make sure there is a standardized BMP list to make sure all town regulations are being followed post-construction.**

#### BMP 5-5 Staff Training

Town will continue to develop a training program for staff on the new requirements for stormwater quality BMPs. A specific training program for inspections of operation and maintenance of structural BMPs will also be developed. **Started working on standardized list BMP's in following years the town needs to work on implementation of training.**

## **(6) Pollution Prevention & Good Housekeeping for Municipal Operations**

### BMP 6-1 Staff Training

An updated training program for pollution prevention techniques for municipal operations will be developed. **The Town of Bethel updated training program in 2016. Implementation is the main focus of the BMP for the following years.**

### BMP 6-2 Annual Street Sweeping

#### BMP 6-3 Evaluate Street Sweeping Program

*Throughout the municipality*, continue current maintenance program to sweep all streets at least once a year as soon as possible after the snow melt. *Within the UA*, expand the current maintenance program to evaluate and prioritize those streets that may require sweeping more than once a year. **The Town of Bethel continued policy and procedure, BMP's work so we will continue to follow policy in following years. Also in 2016-19 it will be something we add to the GIS so residents can see what roads have been done and not completed during the annual sweep.**

### BMP 6-4 Stormwater Structure Cleaning Program

*Throughout municipality*, continue current maintenance program to evaluate and if necessary, clean catch basins and other stormwater structures that accumulate sediment at least once a year, including a provision to identify and prioritize those structures that may require cleaning more than once a year. **The Town of Bethel continued policy and procedure, BMP works so we will continue to follow policy in following years.**

### BMP 6-5 Evaluate Stormwater System for Upgrade or Repair

*Throughout municipality*, continue current maintenance program to evaluate and if necessary, prioritize for repairing retrofitting or upgrading the conveyances, structures and outfalls of the MS4. **The Town of Bethel continued policy and procedure, BMP works so we will continue to follow policy in following years.**

### BMP 6-6 Inventory of Town Facilities & Procedures

This program will identify all potential pollutants at town facilities and town practices that may be exposed to direct precipitation or stormwater runoff. **Continue working on SWPPP and SPCC plans to keep in line with the requirements of the Permit.**

## **Monitoring**

The Town of Bethel during the ongoing years of the program will conduct Stormwater monitoring. Two outfalls apiece shall be monitored from areas of primarily industrial development, commercial development and residential development, respectively, for a total of six (6) outfalls monitored. Each monitored outfall shall be selected based on an evaluation by the MS4 that the drainage area of such outfall is representative of the overall nature of its respective land use type. Sample collection and Laboratory analysis will be performed per the methods described in the General Permit. **Monitoring was conducted and provided to CTDEEP for 2016.**