

**TOWN OF CHRISTIANBURG
STORMWATER MANAGEMENT PROGRAM
Annual Report for 2008-2009
NPDES PHASE II: SMALL MS-4 (Municipal Separate Storm Sewer System)
VPDES PERMIT NO. VAR 040025**



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**The following is a summary of the Six Minimum Control Measures that
the Town of Christiansburg has implemented in accordance with the
Town's MS-4 Program Plan. This report covers the period
January 9, 2008 – June 30, 2009.**

Minimum Control Measure No. 1: Public Education and Outreach

A. BMP 1.1: Stormwater Webpage

Annual Goals for Reporting Year: Evaluate the stormwater webpages for content and design. Update as needed.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. As a part of the redesign of the Town's website, new stormwater webpages were created and posted. These webpages provide basic stormwater information, as well as links to other stormwater webpages. Hardcopies of the webpages are included as Appendix A, and the webpage is viewable at:

<http://www.christiansburg.org/index.aspx?nid=148>

Next Year's Annual Goals: Add TMDL information to the website. Evaluate the stormwater webpages for content and design. Update as needed.

B. BMP 1.2 : Educational Mailers

Annual Goals for Reporting Year: Create a new mailer or update a previous mailer, send to all addresses in Christiansburg, record any feedback received, and file.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were partially met; however, all tasks were completed by 10 July 2009. The mailer was completed and sent to the printer by the end of the June. The mailers were received by the Town 2 July 2009, and were mailed on 10 July 2009. A copy of the 2008-2009 mailer, and copies of the printing and mailing costs are included as Appendix B. No feedback was received during the reporting period.

Next Year's Annual Goals: Create 2009-2010 mailer, send to all addresses in Christiansburg, and record and file any feedback received.

C. BMP 1.3 : Model Stormwater System

Annual Goals for Reporting Year: Plan for construction of BMPs at the Aquatic Center.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The BMPs are on the approved plans and will be installed once site conditions permit. A copy of the Aquatic Center Site plan and stormwater quality narrative are included as Appendix C.

Next Year's Annual Goals: Install BMPs once site conditions permit. After all the previously denuded areas are fully stabilized, the Infiltration Basin and Bioretention Basin will be installed. Signs will also be erected providing information about the BMPs and their function.

D. BMP 1.4 : Storm Drain Labeling

Annual Goals for Reporting Year: Place or paint message on 100 inlet structures. Update GIS database to reflect inlets' status as 'marked'.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The Town installed 100 storm drain markers during the reporting year. Also, the GIS database was updated by 30 June 2009. Included in Appendix D are a receipt for 200 markers (2 years of markers), and a photo of the new style of markers installed this year.

Next Year's Annual Goals: Place or paint message on 100 inlet structures. Update GIS database to reflect inlets' status as 'marked'.

Minimum Control Measure No. 2: Public Involvement / Participation

A. BMP 2.1 : TMDL Sessions

Annual Goals for Reporting Year: Hold at least one TMDL session. Record discussion topics and file.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were not met; no meetings were held.

Next Year's Annual Goals: Hold at least one TMDL session. Record discussion topics and file.

B. BMP 2.2 : Developer / Engineer Stormwater Quality Treatment Design and Construction Information Session

Annual Goals for Reporting Year: Hold at least one Stormwater Quality Treatment Design session. Record discussion topics and file.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were not met; no meetings were held.

Next Year's Annual Goals: Hold at least one Stormwater Quality Treatment Design Session. Record discussion topics and file.

C. BMP 2.3 : Provide MS4 Annual Report at Town Council Meeting

Annual Goals for Reporting Year: None, this is a new BMP and was not applicable for the previous reporting year.

Measurable Goals Achieved for Reporting Year: N/A.

Next Year's Annual Goals: Provide MS4 Annual Report to Town Council and general public once the Report has been completed. Take notes during any resulting discussion and file.

Minimum Control Measure No. 3: Illicit Discharge Detection and Elimination

A. BMP 3.1: Storm Sewer System Mapping

Annual Goals for Reporting Year: Maintain GIS database, and update the database whenever new facilities are accepted as Town infrastructure.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The Town's GIS database was maintained and updated through out the course of the year. As new infrastructure was installed and accepted by the Town, it was added to the GIS database.

Next Year's Annual Goals: Maintain GIS database, and update the database whenever new facilities are accepted as Town infrastructure.

B. BMP 3.2 : Illicit Discharge Detection and Elimination Plan

Annual Goals for Reporting Year: Complete written IDDE Plan (the plan and procedures had been developed and implemented, but not fully documented). Continue to operate within the IDDE Plan. Inspect at least 50% of the Town's MS4 Outfalls. Create and maintain records of any illicit discharge events.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were partially met. The written IDDE plan was drafted but not completed during the reporting year. Included in Appendix E is a current draft of the IDDE plan. The Town inspected 100% of the known MS4 outfalls, and those inspections are included as Appendix F. Illicit discharge records were created and maintained as needed.

Next Year's Annual Goals: Complete written IDDE plan and continue to operate within the IDDE Plan. Inspect at least 50% of the Town's known MS4 Outfalls. Create and maintain records of any illicit discharge events.

Minimum Control Measure No. 4: Construction Site Stormwater Runoff Control

A. BMP 4.1 : Construction Site Runoff Control Plan

Annual Goals for Reporting Year: Continue administering ESC Program and reporting disturbed acreage to DCR monthly.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The ESC Program continued to operate, and the disturbed acreage was reported to DCR on a monthly basis. Included as Appendix G are the disturbed acreage reports.

Next Year's Annual Goals: Continue administering ESC Program and reporting disturbed acreage to DCR monthly. Require VSMP permit coverage be acquired prior to issuance of a land disturbing permit.

Control Measure No. 5: Post-Construction Stormwater Management in New Development and Redevelopment

A. BMP 5.1 : Stormwater Management Ordinance

Annual Goals for Reporting Year: Continue to review and approve plans in compliance with Town Code. Review and update Town Code to ensure compliance with current state law and regulations.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. All new plans approved for development or redevelopment were reviewed and approved in compliance with Town Code. The stormwater management portion of Town Code was not reviewed for compliance with state law and regulations, because the new stormwater management law and regulations have not been finalized.

Next Year's Annual Goals: Continue to review and approve plans in compliance with Town Code. Review and update Town Code to ensure compliance with current state law and regulations as needed.

B. BMP 5.2 Stormwater Management Pond / Water Quality BMP Inspections

Annual Goals for Reporting Year: Inspect all Town owned stormwater management facilities. Inspect all facilities for which the Town has a recorded maintenance agreement.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. All Town owned basins were inspected. At the end of the reporting year, there were only two facilities for which the Town has a maintenance agreement, one was inspected, and the other was not inspected because it had not been completed. Attached as Appendix H are copies of the completed inspection forms.

Next Year's Annual Goals: Inspect all Town owned stormwater management facilities. Inspect all facilities for which the Town has a recorded maintenance agreement.

Minimum Control Measure No. 6: Pollution Prevention / Good Housekeeping for Municipal Operations

A. BMP 6.1 : Household Hazardous Waste Collection

Annual Goals for Reporting Year: Participate via funding and advertising for this event.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The Household hazardous Waste Collection was held on 9 May 2009 from 8:30AM to 11:00AM. The Town contributed \$3,461.80 to help fund the event; a check stub is included as Appendix I, showing the Town's payment. A total of 34 people pre-registered with the Town for this event however registration was not required.

Next Year's Annual Goals: Participate via funding and advertising for this event.

B. BMP 6.2 : Street Sweeping Program

Annual Goals for Reporting Year: Sweep streets on a regular basis and whenever specific complaints are taken for debris or sediment in the roadway.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. All the streets in Town were swept at least once and specific areas were swept when complaints were received. Included as Appendix J is a copy of the street sweeping log for this reporting period.

Next Year's Annual Goals: Sweep streets on a regular basis, and whenever specific complaints are taken for debris or sediment in the roadway.

C. BMP 6.3 : Leaf Pickup Program

Annual Goals for Reporting Year: Pick up leaves in the fall of the year, beginning after the Town's Fall Clean-up activities. Continue picking up leaves as needed through the winter and spring.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The leaves were picked up following Fall Clean-up, and they were picked up as needed throughout the winter and spring. A total of 275 loads picked up by the Town.

Next Year's Annual Goals: Pick up leaves in the fall of the year, beginning after the Town's Fall Clean-up activities. Continue picking up leaves as needed through the winter and spring. Take as many loads as feasible to our local composting facility, rather than the landfill.

D. BMP 6.4 : Stormwater Pollution Prevention Measures in use during Municipal Operations

Annual Goals for Reporting Year: Continue to store salt indoors, use wash bays, and perform at least one employee training session per year. Perform a facilities inspection at the Public Works complex looking for possible improvement for stormwater pollution prevention practices and procedures.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The Town continued to store salt in the salt dome and use the wash bays for vehicle washing. The stormwater pollution prevention training sessions were not held during the reporting year, but they were held soon after. The goal was to hold them before July, but due to scheduling conflicts, the training had to be held after the reporting year ended. Also, an inspection of the public works facilities for stormwater pollution prevention was not performed. Although the training was during the current reporting year, the training was intended for last reporting year, so Appendix K is included, which is attendance sheets for the stormwater training sessions.

Next Year's Annual Goals: Continue to store salt indoors, use wash bays, and perform at least one employee training session per year. Perform a facilities inspection at the Public Works complex looking for possible improvement for stormwater pollution prevention practices and procedures.

E. BMP 6.5 : Storm Sewer Cleaning Program

Annual Goals for Reporting Year: Inspect, clean, and verify our storm sewer system in an on-going manner. As manpower allows, keep a crew detailed to this task.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The Town's storm sewer system was cleaned as manpower allowed. An estimated 10,449 feet of pipe were clean by the Town during this reporting cycle.

Next Year's Annual Goals: Inspect, clean, and verify our storm sewer system in an on-going manner. A Public Works crew, which one of the primary functions is storm drainage system maintenance, will target problem areas.

F. BMP 6.6 : Town's MS4 Program Updates

Annual Goals for Reporting Year: At the end of the reporting year, perform a general review to ensure permit compliance, and to gauge the effectiveness of the program.

Measurable Goals Achieved for Reporting Year: The measurable goals for this reporting year were met. The MS4 Program Plan was reviewed with Mason Harper on 18 June 2009, and several required Program Plan updates were recorded. As submitted to DCR on 28 July 2009, the Town of Christiansburg's

MS4 Program Plan has been revised to ensure program plan compliance for this current reporting year.

Next Year's Annual Goals: Incorporate TMDL Program Plan changes prior to 9 January 2010. At the end of the reporting year, perform a general review to ensure permit compliance, and to gauge the effectiveness of the program.

Authorized Program Signature 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 person 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.

RLT

For R. Lance Terpenney
Town Manager
Town of Christiansburg