



Botetourt County, Virginia

TMDL Action Plan: Sediment

Reporting Period: First TMDL Action Plan Report

Permit Number: VAR040023

In compliance with the Virginia Stormwater Management Program (VSMP) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4)



Botetourt County TMDL Action Plan

Sediment

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1. MS4 Program Review

Existing Legal Authorities, https://www.municode.com/library/va/botetourt_county/codes/code_of_ordinances

- Chapter 10 of the County Code describes the Erosion and Sediment Control; Stormwater Management Illicit Discharge Ordinances
- Chapter 6 of the County Code describes the Building Ordinance
- Chapter 8.5 of the County Code describes the drainage and flood control ordinance
- Chapter 21 of the County Code describes the Subdivision Ordinance
- Chapter 25 of the County Code describes the Zoning Ordinance

Proposed Legal Authority:

- Illicit Discharge, Detection and Elimination ordinance was adopted on October 27, 2015.

2. Legal Authority

This is the first Botetourt County TMDL Action Plan submittal. All existing legal authorities are noted above. The County does not anticipate any new or modified legal authorities to be implemented in the future.

3. Means and Methods for New Sources

Botetourt County will address discharges into the MS4 from new discharges through its existing legal authorities and through its recently adopted Illicit Discharge, Detection and Elimination Program.

4. Final TMDL report

Benthic Total Maximum Daily Load Development for the Roanoke River prepared for the Virginia Department of Environmental Quality March 2006 by The Louis Berger Group.

5. Waste Load Allocations (WLA) and Load Allocations (LA)

As part of the Benthic TMDL for the Roanoke River, a Waste Load Allocation (WLA) and Load Allocation (LA) has been established for each MS4 permittee within the overall drainage. Land-based loads have been allocated to each MS4 based on an area-weighted method. A 69.5% reduction in urban, agricultural and transitional land-based sources and in-stream erosion allocated to all MS4s within the watershed is required to achieve the TMDL endpoint.

Tables outlining the existing and allocated loads by land use, as well as required reductions, are located in Section 7.0 of the Final TMDL and are not listed in this document.

The total sediment WLA for Botetourt County, permit number VAR040023, as part of the Final TMDL is 286.1 tons/year.

6. Stressor Identification

Potential stressors to the benthic community within the Urbanized Area (UA) of Botetourt County include projects permitted under the General VPDES Permit for Discharges of Stormwater from Construction Activities with an Authorization to discharge under the Virginia Stormwater Management Act, agricultural activities (including cropland, livestock areas, and managed pasture), and historic in-stream erosion.

Tables listing VPDES permit holders, existing stormwater management BMPS and existing conservation agricultural BMPs are included in the Roanoke River Bacteria and Sediment TMDL Implementation Plan and are not listed in this document.

7. Means and Methods to Offset Stressors from New Sources

The primary urban sources of sediment within the UA are addressed above in Section 6. The following is a tabulation of the BMP's that Botetourt County plans to implement to decrease discharges of Sediment along with the implementation schedule:

BMP	BMP Name/Task	Implementation Dates
1	Enhanced Public Education and Outreach for Developers, Contractors & Engineers Informational Seminars to Address New Regulations/Impact of Sediment in Streams Seminar to address requirements for a SWPPP for Single Family Detached Dwelling Distribute Informational Brochures Addressing E&S Impacts	Ongoing January 2017 January 2017
2	Enhanced Employee Training (Staff that Maintain the Grounds at Greenfield/Vista Park) Good Housekeeping and Pollution Prevention Practices Around Waterways/Streams Recognize and Report Illicit Discharges	Annually/New Hires June 2016 June 2017
3	Enhanced Illicit Discharge Detection and Elimination Program at Greenfield/Vista Park Develop Publications to be Distributed to Commercial Facilities within Parks Distribute to Facilities Increase Outfall Inspections to Bi-Annually	January 2016 June 2017/As Needed June 2016

Botetourt County will also work closely with the Mountain Castles Soil & Water Conservation District (MCSWCD) and the local USDA Natural Resources Conservation Service to educate and provide outreach on aspects of agricultural BMPs to reduce future stressors to the benthic environment. Botetourt County currently provides funding for the MCSWCD to implement educational, conservation and technical assistance for county citizens.

8. Modifications to TMDL or watershed implementation plan that occurs during the term of this state permit as part of reapplication.

Botetourt County will address this at the time of permit reapplication.

9. County owned/operated facilities within the MS4 Urbanized Area

Botetourt County will enhance the E&S Program for development of new sites and expansion of existing facilities within the County owned Industrial Parks.

10. Public Comment for TMDL Action Plan

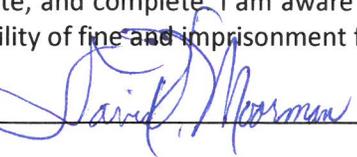
The Botetourt County sediment TMDL Action Plan will be posted on the county's website once approved and advertised through the website and in an advertisement in the local newspaper. Written public comments will be accepted until a date to be determined upon approval.

11. Methods to Assess TMDL Action Plan effectiveness

Botetourt County does not provide current water quality monitoring on the impaired segments. All water quality data will continue to be collected by the Department of Environmental Quality (DEQ) for use in the TMDL plan and implementation phases going forward. Botetourt County will continue to review and evaluate the results of DEQ's ongoing water monitoring program as well as continuing the 2 County owned outfall inspections. Also, Botetourt county will review the Existing E&S Enforcement Policy and will evaluate the need for changes if needed.

12. 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."

Name  Title Interim County Administrator Date 12-28-15