

# **WEST VIRGINIA (REGION 3)**

*A Snapshot of West Virginia's TMDL Program (August 2008)*

## ***The Basics***

Key Agency/Department & website

West Virginia Department of Environmental Protection  
Division of Water and Waste Management  
<http://www.wvdep.org/item.cfm?ssid=11&ssid=930>

TMDL Program Structure/Placement

Housed in Watershed Assessment Branch

+/Stream monitoring, listing/reporting, and TMDL staff are all part of one unit that works cohesively together on different programs and projects, with good communication and source of group identity (reorganization to this arrangement was 8-10 years ago)

-/Implementation is housed in other branches (Permitting and NPS); Watershed staff is often unaware of what is being done to implement our work output

## ***By the Numbers***

Number of Impaired Waters	1,119
Number of Causes of Impairment	1,592
Top Five Causes of Impairment	<ol style="list-style-type: none"><li>1. Benthic Macroinvertebrates</li><li>2. Iron</li><li>3. Fecal Coliform</li><li>4. pH</li><li>5. Aluminum</li></ol>
Approximate Number of TMDLs Developed Annually	150-200
Total Number of TMDLs Approved (1995 to present, incl. any est'd by EPA)	2,089
Total Number of TMDLs Approved in 2005/2006/2007	294/402/0
2008 303d/Integrated Report Submission Status (Date)	5/15/2008
Approximate Number of FTEs Working on TMDL Issues	12

## ***TMDLs***

EPA Under Consent Decree to Develop TMDLs?	Y
Broad-Scale? (e.g., watershed, multi-jurisdictional, etc.)	Y

## ***Non-TMDL Options***

Use of Non-TMDL Options to Address Impaired Waters?	N
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## ***Funding***

Approximate Annual Budget for TMDL Program	\$2 million
Primary Source(s) of TMDL Program Funding	state general revenue; EPA

## ***TMDL Implementation***

TMDL Implementation Required?

N

## ***Innovations***

Example(s) of Any Innovative Approach(es) Employed

--use "Total iron" concentration as a surrogate procedure for biological impairment by sedimentation

--watershed-grouped TMDLs

--intensified source tracking

--area-based allowances for construction stormwater sites under a general permit

TMDLs that Represent a Particular Achievement

List of WV TMDLs:

[wvdep.org/wvtmdl](http://wvdep.org/wvtmdl)

## ***Barriers***

Top Three Barriers to TMDL Development

1. lack of water quality criteria for ionic stress (to biological community)
2. potentially over-conservative water quality criteria for some pollutants (Al, Fe, Cd, and fecal Coliform)

Top Three Barriers to TMDL Implementation

1. lack of regulatory control for NPS pollution
2. uncertainty regarding effectiveness of stormwater point sources' BMPs
3. insufficient funding for AML restoration and sewage treatment (AML funding may improve in the near future)