

Where are we?/How are we doing?

TMDLs

- Total Maximum Daily Load program
 - Full assumption of program from EPA
 - First round of tmdls by state underway
 - Completion of EPA tmdls from Consent Decree
 - Funding

Where are we/How are we doing?

Antidegradation

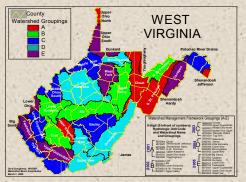
- Antideg review being conducted for all new and expanded permit applications
- Guidance document developed
- Tier 2.5 streams still under review

TMDL Program

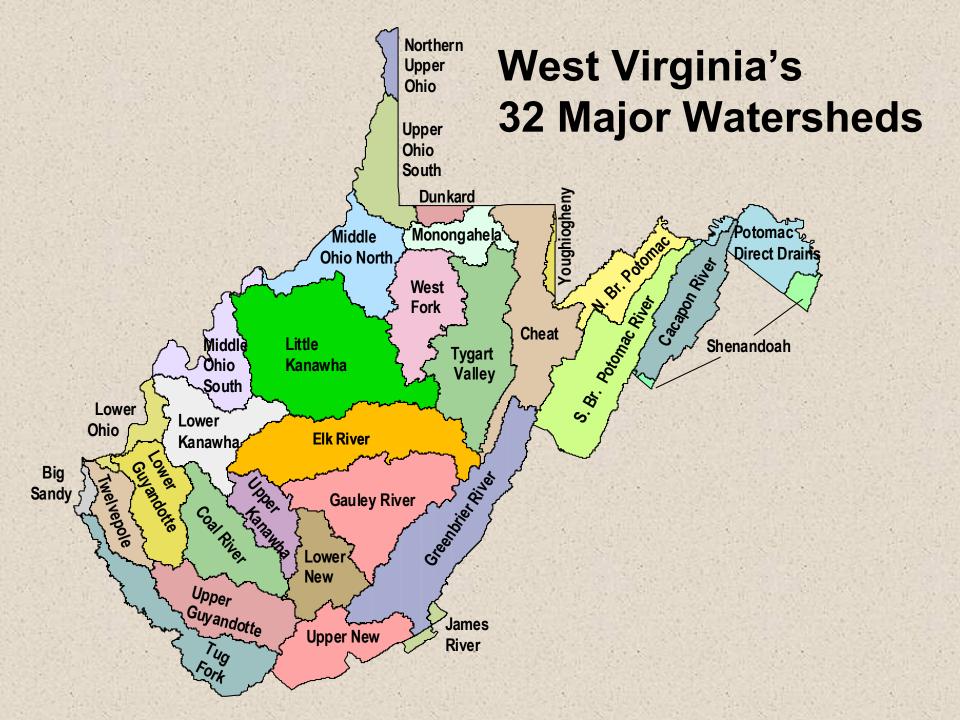
- Incorporating the statewide Watershed Management Framework Process
- Multi-agency initiative started in 1997 to focus state/federal agency resources on environmental priorities at watershed scale

Watershed Management Framework

- 32 watersheds (8-digit HUC)
- 5 Hydrologic Groups (A E)



- Watershed Assessment, NPDES Permit reissuance synchronized
- WV Nonpoint Source Program integration
- WVDEP TMDL development synchronized



TMDL/WMF Synchronization

- Pre-TMDL monitoring occurs concurrently with WMF assessment year
- TMDL completion just ahead of WMF implementation year
- WVDEP program started January 2001
- Two batches underway

 HGA (2004 TMDLs)
 HGB (2005 TMDLs)

- Hydrologic Group A
- Impaired waters in Upper Kanawha and Upper Ohio North watersheds
- Pre-TMDL monitoring completed
- TMDL development contract awarded 11/02

 Pollutant source assessment activities underway

- Requested instream monitoring data in electronic format from active mining operations
- TMDLs to be finalized 12/31/04

- Hydrologic Group B
- Impaired waters in Coal River, North Branch Potomac, and Lower Kanawha watersheds
- TMDLs to be finalized 12/31/05
- Pre-TMDL monitoring began 7/1/02 and will continue thru 6/30/03

TMDL Development Activities - Hydrologic Group C

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		2003	2004	2005	2006	2007	2008
ID 1	Task Name	DJFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJASOND	JFMAMJJAS
	Selection of Streams for TMDL Development						
2	DETERMENT of a failure factor of sector and sector and						
3	WM F/Stakeholders Input on TMDL Candidates	<u>.</u>					
4	Draft TMDL Candidate List by OWR	€					
5	Public Notice and Public Comment	••					
6	Revise and Finalize Selections						
7							
8	Pre-TMDL Monitoring and Data Compilation						
9							
10	Informational Public Meetings and Call for Data	• • • • •					
11	Monitoring Plan Development	•					
12	Sample Collection and Analysis	• • • • • • • • • • • • • • • • • • •	•				
13	Compliation of All Available Data	•	•				
14							
15	Modeling/TMDL Contracts						
16							
17	Draft Contracts		—				
18	Advertise and Receive Bids		—				
19	Review Bids and Award Contracts						
20							
21	TMD L Development						
22							
23	Polutant Source Assessment		•	•			
24	Model Selection/Development/Calibration			•			
25	Stakeholder Meetings - Input to Pre-Draft TMDLs			<u> </u>			
26	Development of Draft TMDL documents)		
27	Refinement of Draft TM DLs						
28							
29	TMD L Finalization						
30							
31	Public Notice/Meeting Scheduling, Announcement Preparation				۲		
32	Public Comment Periods						
33	Public Meetings				0-0		
34	Revise/Respond to Comments/Finalize/EPA Approval					9	
35							
36	TMDL Implementation						
37							
38	Nonpoint Source Controls				é)	>
39	NPDES Permit Relasuance				Ĩ		•
40	Point Source Controls						
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- Impaired waters in Hydrologic Group C
- TMDLs to be finalized 12/31/06
- Just started stream selection process; PN 2/1/03
- AMD in Gauley watershed
- Pre-TMDL sampling 7/1/03 6/30/04

EPA TMDLs

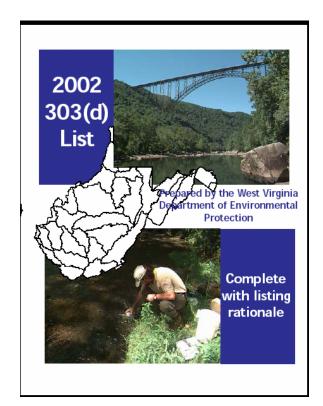
- Upper and Lower Guyandotte
- Consent Decree modification
- TMDLs to be finalized March 2004
- Mainstem Al, Fe, and FC impairments
- Mine drainage impaired tributaries from the 1998 303(d) list

2002 WV 303(d) List

- Provisional Draft to TMDL Stakeholders and EPA (6/19/02)
- Response to comments (7/30/02)
- Draft to Public Notice (8/1/02)
- Responsiveness Summary and Final Draft to EPA and commenters (10/9/02)
- List available on DEP website
- Awaiting EPA approval......

2002 WV 303(d) List - Format

- Watershed Based
- Narrative Information, 303(d) Table, Status Tables
- Status Tables -
 - Delisted
 - TMDLs Developed
 - TMDLs Developed (Improvement Realized)
- Responsiveness Summary



2002 WV 303(d) List

- Approximately 655 streams listed
- Approximately 4300 stream miles
- Biological Impairment is most common listing (approx 480 listings)

• Approximately 160 remaining mine drainage impaired waters

Antidegradation

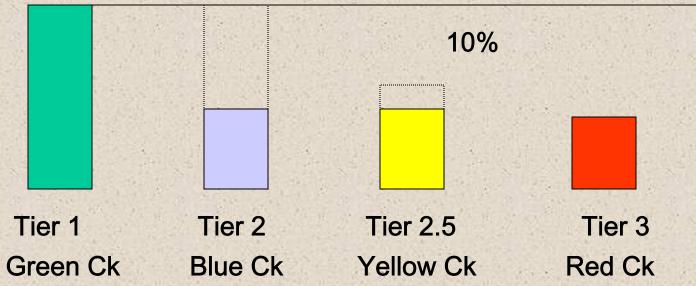
- A process to protect and maintain existing uses and to maintain high quality waters at their existing high quality
- Clean Water Act requires antidegradation component in state water quality standards
- Provisions have been included in WV Standards since early 1980's

Antidegradation Implementation Rule

- Product of a two-year development process, adopted by the 2001 Legislature
- Being implemented by the Department of Environmental Protection
- Includes detailed implementation requirements not previously contained in standards
- 60 CSR 5; 46 CSR 1

Antidegradation Implementation

Water Quality Standard



Tier 2 Protection

- High Quality Waters
- High quality waters are to be maintained at their existing high quality unless limited degradation is necessary to accommodate important economic or social development and there are no less-degrading alternatives available
- Represents vast majority of state streams; default assumption
- Pollutant-by-pollutant application with existing quality established by a baseline water quality assessment

Tier 2.5 Protection

- Waters of Special Concern
- De facto water quality criteria for parameter of concern established at baseline water quality plus 10% of available assimilative capacity
- Water quality cannot exceed the de facto water quality criteria
- Includes provisions for short term changes to water quality
- Streams to which this protection applies will be identified in regulations

Tier 2.5 Protection

- Presumptive list of 444 streams included in 60 CSR 5
- Detailed objection process
- Presumptive list represents about 2,000 miles of streams (6% of WVstream miles)
- Nomination process

Tier 2.5 Protection

- Presumptive Tier 2.5 list was compiled by the Department of Environmental Protection, in cooperation with the Division of Natural Resources
- Naturally reproducing trout streams
- DEP-determined reference streams
- Streams with high biological scores located on public lands

Tier 3 Protection

- Outstanding National Resource Waters
- Waters shall be maintained, protected and improved.
- No permanent lowering of existing water quality allowed
- Includes provisions for short term changes to water quality

DEP Guidance Development

- Many aspects of the rule require guidance
- "Sounding Board" input in development process
- Baseline water quality, assessing impacts of proposed discharges, evaluating pollution control alternatives, evaluating social/economic importance

Antidegradation Guidance Document

- Overview (Chapter 1)
- Tiered Protection Levels (Chapter 2)
- Review Process (Chapter 3)
- Review of Specific Activities (Chapter 4)
- Baseline Water Quality (Chapter 5)

Antidegradation Guidance Document

- Assessing Degradation (Chapter 6)
- Alternative Evaluation (Chapter 7)
- Social and Economic Importance (Chapter 8)
- Public Participation and IGC (Chapter 9)
 Short Term /Limited Effect (Appendix A)

Antidegradation Guidance Document

 Available on WVDEP website and in hard copy format

Tier 2.5 Objection Process

- Rule provides opportunity for landowner objection
- DEP advertised presumptive list and held series of meetings Spring 2002
- Over 4000 written objections

Tier 2.5 Objection Process

- DEP must respond to all objections
- Objections have been entered into database
- Plan is to generate form letters (3-4 flavors); certified mail
- Resource problems; money & staff

Tier 2.5 Objection Process

- DEP response will describe listed segment and provide justification for listing
- Objectors get another 30 days to supplement objection
- DEP considers objections and makes decisions
- Another PN and comment period
- Emergency Rule, maybe; final rule by 2004 Legislature

