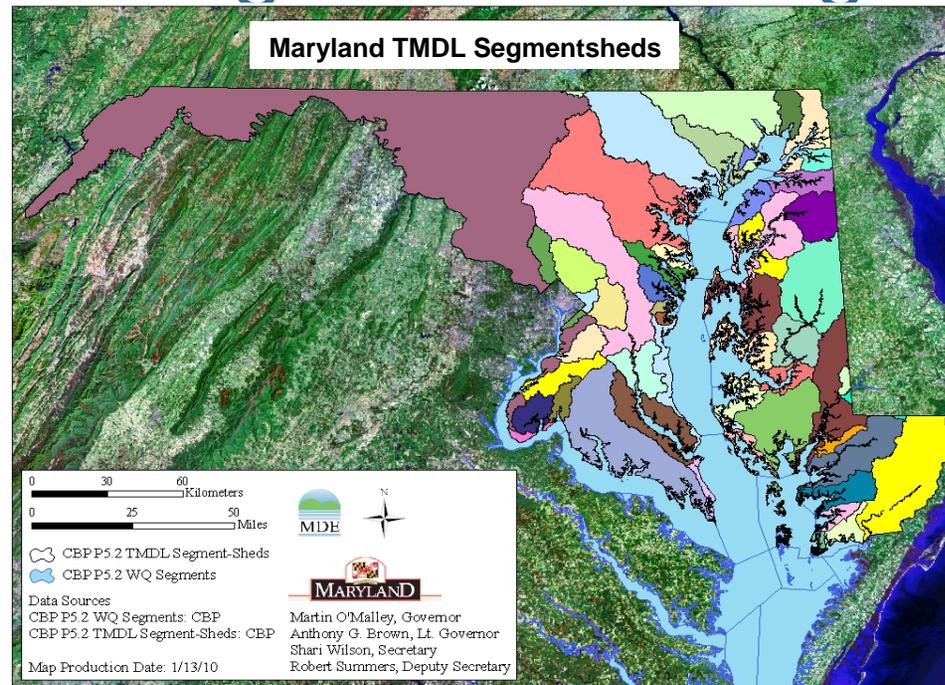


Maryland TMDL & WIP Regional Exchange



June 30, 2010

Basic Background

- EPA to Finish Chesapeake Bay TMDLs by December 2010
- Watershed Implementation Plans (WIPs):
 - Allow States to Allocate Loads
 - Support “Reasonable Assurance” of Implementation
 - Part of new federal “Accountability Framework” to Ensure Results
- Federal “Accountability Framework”
 - Bay TMDLs
 - Watershed Implementation Plans (WIPs)
 - 2-Year Implementation Milestones
 - Tracking & Evaluating Progress
 - Federal “Consequences”

WIP Phase I, II, III Basics

- Phase I WIPs – Developed in 2010:
 - Nutrient and sediment load targets by sector and by impaired segment
 - 8 WIP Elements (EPA Expectations Letter)
 - Reduction Deadlines:
 - 2017 – Interim Target
 - 2025 – Final Target (2020 Maryland Goal)
 - Due to EPA Sept. 1
 - Public Review: WIP and TMDLs available for 45-Days, starting Sept. 24 thru Nov. 8

WIP Phase I, II, III Basics (Con't)

- Phase II WIP – Developed 2010-2011:
 - TMDL Allocations may be modified in Phase II
 - More Time to Address Technical Issues
 - More Time for Stakeholder Advice
 - Local Target Loads: Finer Geographic Scale
 - Identify Specific Controls to be implemented by 2017
 - Draft Due June 1, 2011
 - Final Due November 1, 2011

WIP Phase I, II, III Basics (Con't)

- Phase III WIP – Developed in 2017:
 - Possibly modify TMDL and allocations
 - Identify controls to meet Final Target Loads

Eight WIP Elements

1. Interim and Final Nutrient and Sediment Target Loads
2. Current Baseline Loading and Program Capacity
3. Account for Growth
4. Gap Analysis
5. Commitment & Strategy to Fill Gaps
6. Tracking and Reporting Protocols
7. Contingencies for Slow or Incomplete Implementation
8. Appendix with Detailed Targets and Schedule:
 - a. Loads divided by 303(d) segment drainage and source sector
 - b. Reduction Schedule with 2-year target loads (Used by EPA for Milestone Evaluation)
 - c. No later than November 2011: Update to include loads divided by local area and controls to meet 2017 interim target load

Current Strategy Foundation

- 2-Year Milestones: 35 Milestones are Foundation:
 - 16 Agricultural Practices*
(See next slide)
 - 10 Natural Filters Practices*
 - Grass Stream Buffers (2)
 - Forest Stream Buffers (2)
 - Wetland Restoration (2)
 - Retire Highly Erodible Land (1)
 - Tree Planting (1)
 - 9 Urban Practices
 - Air (1)
 - Septics (4)
 - WWTPs (2)
 - Stormwater (1)
 - Urban Nutrient Management (1)

* Four (4) of the Natural Filters Practices are on Agricultural Land.

BayStat Website: <http://www.baystat.maryland.gov/2yearplan.html>

Agricultural 2-yr Milestones

1. Cover Crops on Private Lands*
2. Cover Crops on Public Lands*
3. Nutrient Management Plan Enforcement
4. Soil Conservation & Water Quality Plans
5. Continuous No-Till Conservation
6. Precision Agriculture
7. Heavy Use Poultry Area Concrete Pads
8. Livestock Waste Structures
9. Water Control Structures
10. Dairy Manure Incorporation Technology
11. Stream Protection with Fencing
12. Manure Transport
13. Poultry Manure Incorporation Technology
14. Poultry Waste Structures
15. Stream Protection without Fencing
16. Runoff Control Systems

BayStat Website: <http://www.baystat.maryland.gov/2yearplan.html>

Accounting for Growth

1. Power Plant Atmos. Cap Strategy
2. Wastewater Cap Strategy
3. WIP Reduction Strategies will Account for Projected Future Loads
4. Contingency NPS Offset Policies:
 - a. Loads from New Land Development
 - b. Loads from New Septic Systems

Additional Options Being Considered

- Agriculture
 - Increase Export of Poultry Manure out of Watershed
 - Implement Precision Agriculture
 - Tracking & Accounting of Voluntary Best Management Practices
- Urban/Suburban
 - BAT replacement for failing Septic Systems
- Natural Filters
 - Increase stream buffers on urban land.
- General
 - Implement Cap & Trade programs.
 - Increase Chesapeake and Atlantic Coastal Bays Trust Fund.

Possible Discussion Topics

- Expectations for Phase I & Phase II WIPs
- Potential Implications for Different Sectors:
 - Agriculture
 - Stormwater: Urban/suburban/industrial
 - Waste Water Treatment: Municipal/industrial/septics
 - Other
- Ideas for Accelerating Load Reductions
- Accounting for Growth in Loads
- How WIPs relate to other Watershed Plans
- Barriers and Challenges
- Partnership Opportunities

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