Chesapeake Bay TMDL
Watershed Implementation Plan
RMP Compliance

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RMP Legislative Language

- *§ 10.1-104.5. Resource management plans; effect of implementation; exclusions.*

  A. Notwithstanding any other provision of law, agricultural landowners or operators who fully implement and maintain the applicable components of their resource management plan, in accordance with the criteria for such plans set out in § 10.1-104.6 and any regulations adopted thereunder, shall be deemed to be in full compliance with (i) any load allocation contained in a total maximum daily load (TMDL) established under § 303(d) of the federal Clean Water Act addressing benthic, bacteria, nutrient, or sediment impairments; (ii) any requirements of the Virginia Chesapeake Bay TMDL Watershed Implementation Plan; and (iii) applicable state water quality requirements for nutrients and sediment.

- *§ 10.1-104.6. Resource management plans; criteria.*

  B.4. Include agricultural best management practices sufficient to implement the Virginia Chesapeake Bay TMDL Watershed Implementation Plan and other local total maximum daily load water quality requirements of the Commonwealth;

Virginia Assessment and Scenario Tool (VAST)

- http://VastTool.org
- Develop BMP implementation scenarios
  - Current progress
  - 2025 Local implementation scenario
- Estimate loads from implementation scenarios
  - Assess reductions
  - Meet local targets
  - Intent is to be consistent with 5.3.2. Model
  - Will be modified as changes are made to the model
- Document land use data
- Submit BMP implementation scenarios and land use data to DCR

- VAST used to develop a Resource Management Plan Scenario

RMP Implementation Scenario
Assumptions

- Aligns with legislative language
- Consistent with Agricultural Cost-Share Program standards
- Broad voluntary adoption of RMP practices
- Nutrient Management treated as efficiency BMP
- Utilize basic level BMPs to allow for future upgrades

RMP Implementation Scenario

- **Row Crop**
  - Nutrient Management – 95%
  - Grass Buffers – 35' average width – 95%
  - Cover Crop – 50%
  - Conservation Tillage – 95%
  - Soil Conservation BMPs (Terraces, Diversions, etc) – 95% above fall line
- **Hay**
  - Nutrient Management – 95%
  - Grass Buffers – 35' average width – 95%
  - Soil Conservation BMPs (Terraces, Diversions, etc) – 95% above fall line
- **Pasture**
  - Nutrient Management – 95%
  - Stream Access Control with Fencing – 35' average width – 95%
  - Prescribed Grazing - 95%
  - Soil Conservation BMPs (Terraces, Diversions, etc) – 95% above fall line

RMP Implementation Scenario
Projected Loads

- VAST estimates for the RMP scenario compared to WIP I scenario
  - Nitrogen loads meet the WIP I
  - Phosphorus loads meet the WIP I
  - Sediment loads meet the WIP I

- VAST estimates for RMP scenario compared to WIP I model outputs
  - Nitrogen reductions at 99.7% of WIP I
  - Phosphorus loads meet the WIP I
  - Sediment reductions at 72.4% of WIP I

- Conclusions
  - The RMP scenario appears to be sufficient to meet the WIP I loads
  - An official model run is needed to verify the VAST estimates

RMP – Bay TMDL Compliance

Questions/Discussion