

TMDL: Concepts, Data and Monitoring Needs, Plan Development

(Virginia Water Research Symposium 2000)

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10:00 am – 12:00

- 1) Fundamental Concepts with TMDLs.....T. Younos
 - a. Designated Uses
 - b. Clean Water Act
 - c. TMDL Components
 - d. Status of Virginia's Waters
 - e. Virginia's Response

- 2) Data and Monitoring NeedsG. Yagow
 - a. The Modeling Process
 - b. Data Categories
 - c. Delineating Streams and Watershed Boundaries
 - d. Land Use Representation
 - e. Parameterization Using GIS
 - f. Rainfall-Runoff
 - g. Pollutant Sources
 - Inventorying Sources
 - Quantifying Sources
 - Spatial and Temporal Variability

1:00 – 3:00 pm

- 3) Data and Monitoring Needs (cont.)G. Yagow
 - h. Observed Pollutant Measurements
 - i. Supplemental Monitoring

- 4) Plan Development..... T. Dillaha
 - a. Model Calibration (hydrology, water quality)
 - b. Model Validation
 - c. Description of Existing Conditions
 - d. Sensitivity Analysis
 - e. Alternative TMDL Allocation Scenarios

- 5) Case Study –North River TMDLs T. Dillaha

- 6) Miscellaneous T. Dillaha
 - a. Other Modeling Approaches (reference watershed, SWMM, WASP, SWAT)
 - b. Lessons Learned