MIDS Work Group Meeting
May 20, 2010

Credit Calculations and Calculator Functions

Today's Goals
The Foundation for the Credits & Calculator

- Discuss proposed calculations
  - Performance goal requirement
  - Volume reductions provided by various BMPs
  - Pollutant reductions provided by various BMPs
- Receive feedback and validation
  - Calculation methods
  - Ideas for encouraging innovative stormwater management while providing realistic credits

BARR

Background:
Consensus on Performance Goal from April Work Group Meeting

"For new, nonlinear developments that create more than one acre of new impervious surface on sites without restrictions, stormwater runoff volumes will be controlled and the post-construction runoff volume shall be retained on site for 1.1 inches of runoff from impervious surfaces statewide."

Challenge

- Performance goal is not tied to a timeframe
  - "…1.1 inches of runoff from impervious surfaces"
- However, Work Group wants to know the pounds of TP and TSS removed annually
- Need to make a connection

Some More Difficult to Quantify Volume-Reducing BMPs

- Harvest/re-use
- Filter strips
- Grass channels
- Infiltration shelves (e.g., shelves at wet ponds)
- Trees/urban forestry
- Cluster development
- Enhanced operations

Methods to Determine Volume Retention

- Calculate volume for easy-to-quantify BMPs
- Use reported average reduction percentages for harder-to-define BMPs

Example:
More Difficult to Quantify BMP Volume Reduction
Grass Channel

- Use values reported in literature
- Reduce volume conveyed through grass channel by 10%