

Meeting Nitrogen Pollution Limits in the Chesapeake Bay Watershed for the Onsite Sewage Sector

Presented by
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December 2, 2015

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Agenda

- Overview of Chesapeake Bay Total Maximum Daily Load (TMDL)
- Current strategies to implement the Watershed Implementation Plan (WIP)
- New strategies
- Past and present status of funding and incentives

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Chesapeake Bay TMDL

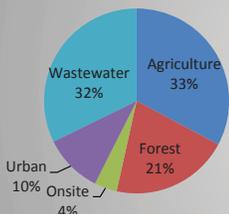
- Chesapeake Bay TMDL created late 2010
- States developed Watershed Implementation Plans (WIPs) and use 2-year milestones to gauge progress
- Implemented through Best Management Practices (BMPs)
 - BMPs in place by 2017 to meet 60% of pollution reduction goal, 100% by 2025

Chesapeake Bay TMDL

- Currently developing 2016-2017 Milestones
- EPA and states preparing for 2017 mid-point evaluation
 - Phase III WIP will be developed in 2018
 - Phase 6 Model update
 - Historic data cleanup 1985-present

Virginia's Onsite Sector Progress

2009 Baseline Nitrogen Pollution by Source Sector



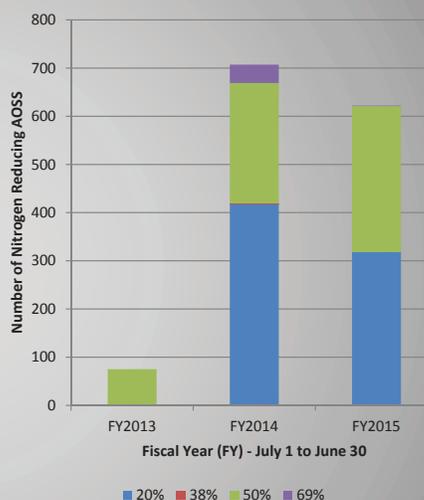
Total NITROGEN Pounds per Year

Source	2014 Target	2014 Actual Load	Pollution Status
Agriculture	18,001,009	17,937,197	On Track
Urban Runoff	9,621,210	11,196,779	16% too much
Wastewater+CSO	19,047,647	14,517,977	24% below
Septic	2,326,658	2,570,242	10% too much
Other	13,303,673	12,801,699	4% below
All Sources	62,300,196	59,023,893	5% below



Current Strategies to Implement WIP

- AOSS regulations effective December 2013
 - All new AOSS in Chesapeake Bay watershed must reduce nitrogen by at least 50%
- Additional BMPs approved 2014
 - 20%, 38%, 50%, and 69% nitrogen reduction



New Strategies to Implement WIP

- Operation and Maintenance (O&M) regulation enforcement
- Collect GPS points for all AOSS for more accurate BMP reporting
- Sewer connection data collection

New Strategies to Implement WIP

- New metric to improve repair time on failing systems within 60 days
- Participation in Bay Program sub-committees
 - Evaluation of soil attenuation rates
 - Additional proposed BMPs for onsite sector
- Properly counting large community systems with high rates of TN reduction

Funding

- EPA Clean Watersheds Needs Survey – 2011
- National Fish and Wildlife Foundation (NFWF)
 - \$335,770 committed to date for 47 projects
- Community Development Block Grant
 - \$300,000 for 20 homes in Albemarle County to connect to public sewer
- VOWRA lobbying for portion of wastewater funds allocated to DEQ
 - Contact VOWRA – Pam Pruett to support