

# Chesapeake Bay TMDL

# Goals & Framework

## Accountability Framework

### WIPs

Phase III in 2017

Annual Progress Reviews

Two-year Milestones

Bay TMDL Tracking & Accountability System

Federal Contingency Actions



- Executive Order 13508 (May 12, 2009) – Rigorous Accountability Measures
- Accountability/Partnership Tools
  - BayTAS (<http://www.chesapeakestat.com/>)
  - Chesapeake Assessment Scenario Tool (CAST)
- Federalism Balance

## ENSURING RESULTS

Develop Watershed  
Implementation Plans



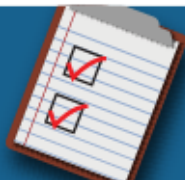
Establish  
Bay TMDL

Set Two-Year  
Milestones



Monitor  
Progress

Employ  
Federal Steps if  
Inadequate  
Progress



# TMDL Progress

- EPA Actions
  - Transparent Public Reporting
  - Backstop Measures
    - Requirements & Approvals for Permits
    - Expansion of NPDES coverage
    - Revise TMDL Allocations
    - More Stringent Controls for Wastewater Treatment Plants, Large Animal Agriculture, & Municipal Stormwater Systems

# TMDL Progress

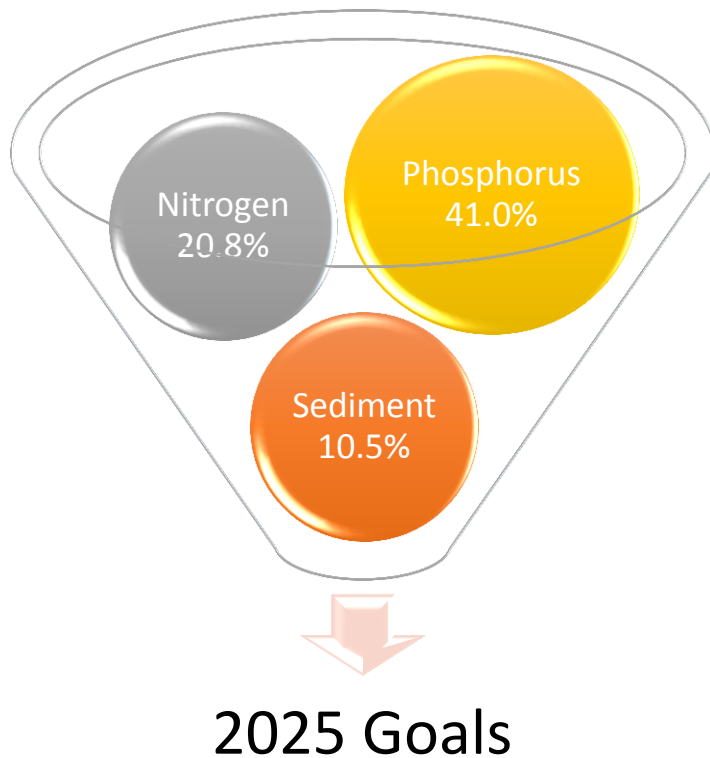
## Oversight Status (May 2015)

	Agriculture:	Urban/Suburban:	Wastewater:	Trading/Offsets:
DE	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
DC	Not Applicable	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
MD	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight
NY	Ongoing Oversight	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight
PA	Backstop Actions Level	Backstop Actions Level	Ongoing Oversight	Enhanced Oversight
VA	Ongoing Oversight	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight
WV	Enhanced Oversight	Ongoing Oversight	Ongoing Oversight	Ongoing Oversight

Green fading to yellow indicates potential downgrade at end of 2014-2015 milestone period if specific actions are not taken

# Pennsylvania Progress – Overview

## Animal Agriculture Percent Reductions Required to Meet 2025 Goals



Ending Year	2009 Progress	2013 Progress	2015 Milestone	2017 60% Target	2025 TMDL	% Reduction (2009-2025)
<b>Nitrogen (lbs)</b>	62,659,000	61,196,000	55,027,000	46,413,000	35,582,000	43%
<b>Phosphorus (lbs)</b>	2,716,000	2,663,000	2,535,000	2,176,000	1,816,000	33%
<b>Sediment (lbs)</b>	1,676,644,000	1,636,375,000	1,398,011,000	1,325,884,000	1,092,044,000	35%

*Pennsylvania Animal Agriculture Program Assessment, Prepared by the U.S. Environmental Protection Agency Region III, February 2015, p. 19.*

- Contributes estimated 44% Nitrogen, 24% Phosphorus, & 32% Sediment levels to the Bay as of 2009.
- 75% PA's reductions to come from Agriculture
- Challenges to Improvement
  - State Budget Impasse/Gridlock
  - Small portion of farms under federal regulation

# Agri{Culture} – On the Ground

*Agricultural Erosion  
and Sediment  
Control Program*

*Manure  
Management  
Program*

*Nutrient  
Management  
Program*

*NPDES CAFO  
Program*

*Commercial Manure  
Hauler and Broker  
Certification  
Program*

- Pennsylvania Animal Agriculture Program Assessment
  - Poor or nonexistent data tracking
  - Lack of resources
  - BMPs not always compatible with farming practices
  - Lack of oversight and enforcement
  - Lack of cohesion, silo effect
- Farming Culture (40,000 farms in watershed)
  - Cost burden
  - Relationships – conflict of interest
- Menonite/Amish Farming Challenges
- Limited Stories of Success at *Local Level*