



# **Chesapeake Bay Program Partnership' 2017 Chesapeake Bay TMDL Midpoint Assessment**

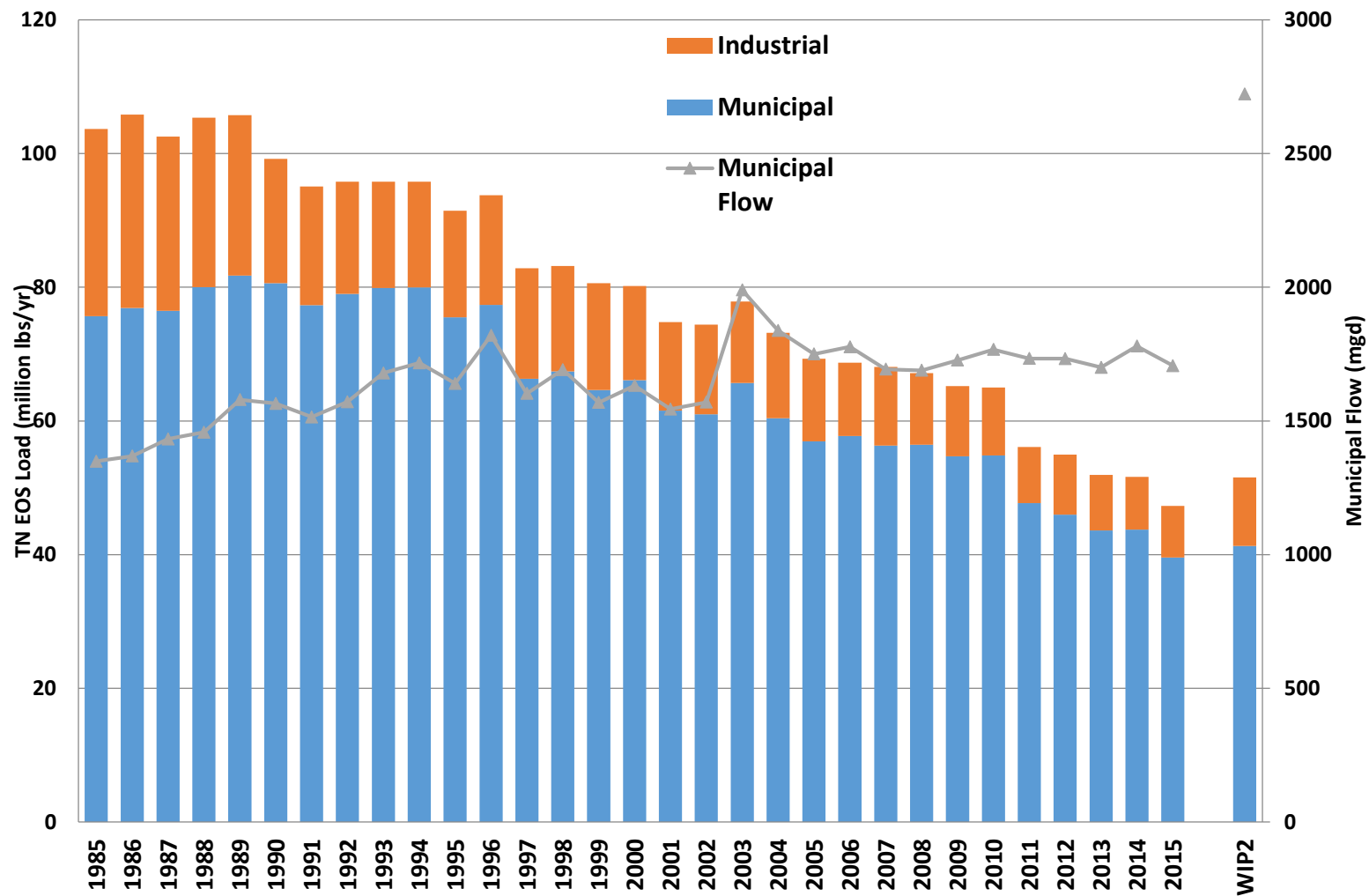
**Metropolitan Washington Council of  
Governments Chesapeake Bay & Water  
Resources Policy Committee**

**September 16, 2016**

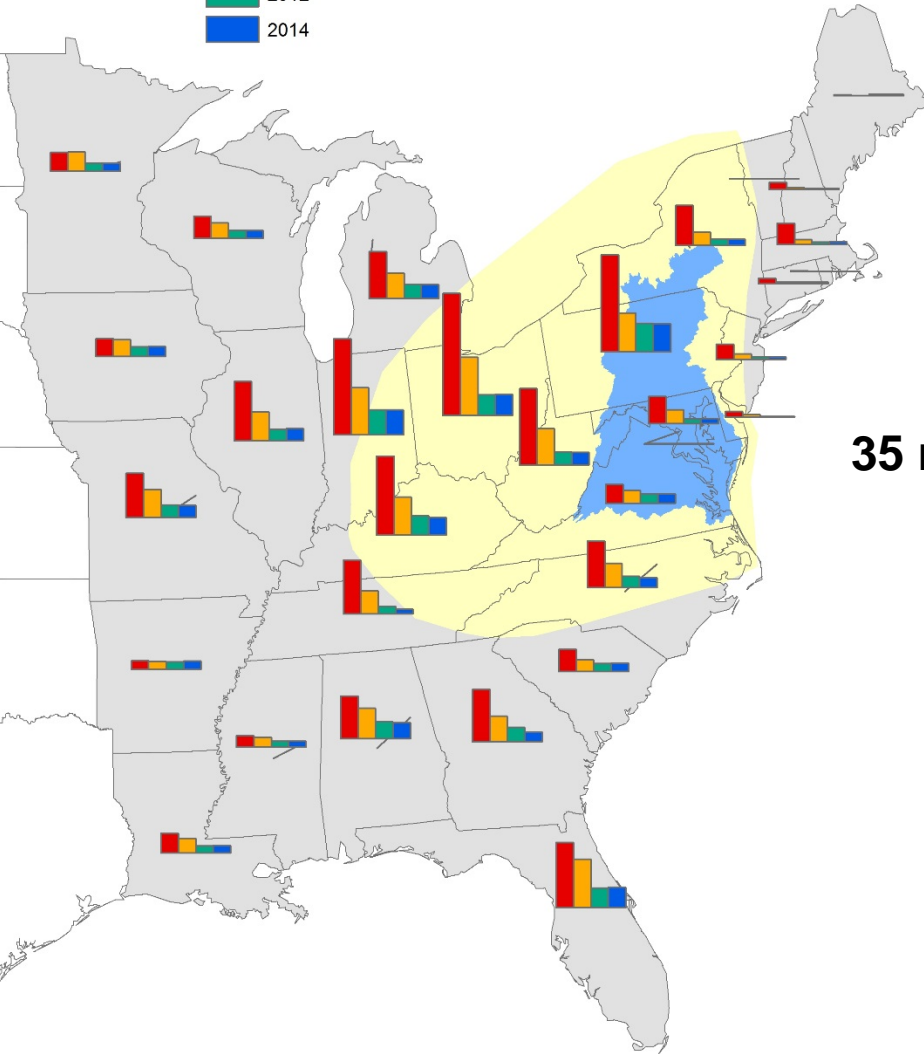
**Rich Batiuk, Associate Director  
Jim Edward, Deputy Director**

**Chesapeake Bay Program Office  
U.S. Environmental Protection Agency  
Annapolis, Maryland**

# Chesapeake Bay Watershed Municipal and Industrial Wastewater Treatment Facilities Discharged Nitrogen Loads: 1985-2015

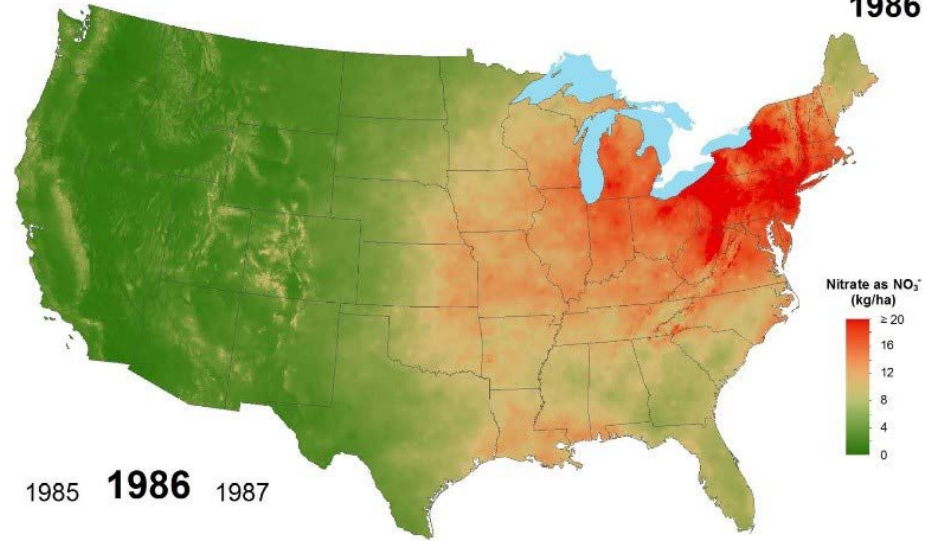


**Annual NOx Power Plant Emissions 1990-2014**



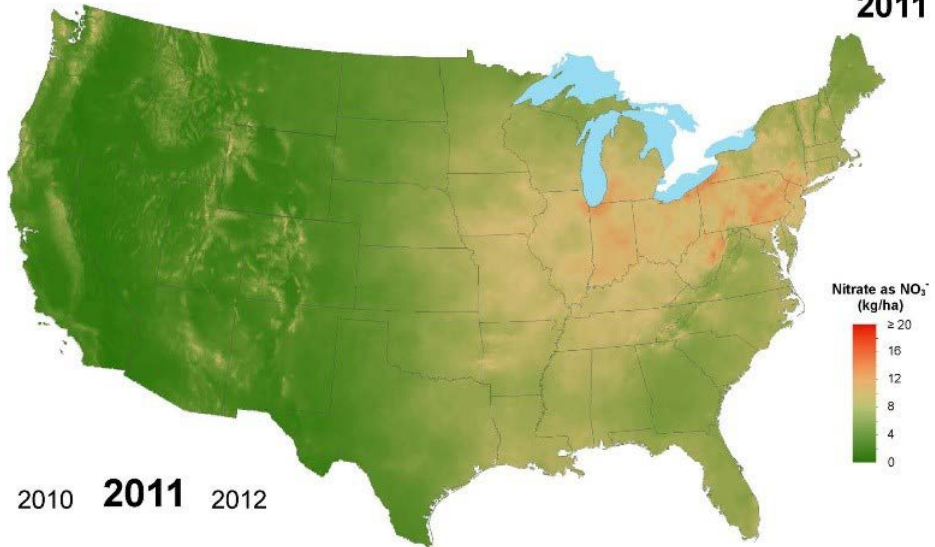
<http://gis.chesapeakebay.net/air>

**Nitrate ion wet deposition  
1986**



**35 million lbs. reduction to Bay: 1985-2015**

**Nitrate ion wet deposition  
2011**



# Potomac Underwater Bay Grass Continuing to Come Back

TF OH MH PH

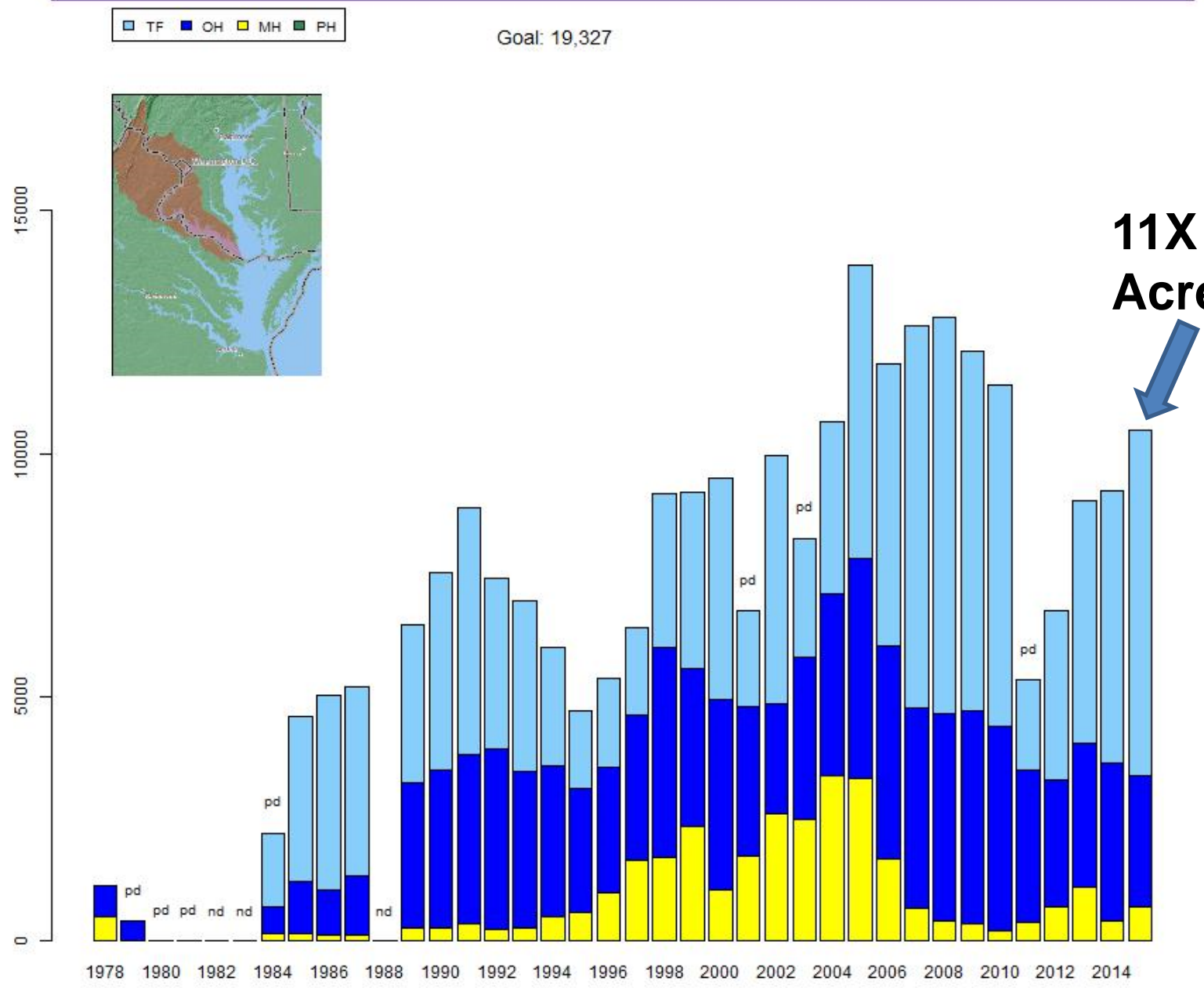
Goal: 19,327



15000  
10000  
5000  
0

1978 1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014

**11X 1978  
Acreage!**



**Chesapeake Bay  
TMDL 2017  
Midpoint  
Assessment**

# Midpoint Assessment Timeline

Jurisdiction Implementation of WIPs & Two Year Milestones  
 Evaluation of Programmatic and Load Reduction Commitments  
 Monitoring data assessments/factors affecting trend findings

Agreement on path forward and data inputs

- 2014
- New land use classifications and loading rates approved
- BMP panel recommendations for Phase 6.0 inclusion
- Agreement on Midpoint Assessment Schedule

Agreement on framing the priority issues

- 2015
- Early review of decision support tools
- James River chlorophyll assessment criteria completed
- Conowingo Dam study complete
- Review and incorporate decisions of climate change impacts
- BMP panel recommendations for Phase 6.0 inclusion

Approval of decision support tools

- 2016
- Final partnership comments on suite of tools
- Partnership input to any updates to local area target expectations
- Review and incorporate decisions of climate change impacts

Establish Phase III WIP targets

- 2017
- Phase III WIP expectations finalized
- Partnership informs final decisions on reallocation process

Complete Phase III WIPs

- 2018
- Support for Phase III WIP development using Phase 6.0 modeling tools

Evaluation of 60% by 2017 target using Phase 5.3.2 modeling tools

- 2018
- Comprehensive monitoring and trend findings through 2016

# Upcoming State Cabinet Secretary/Federal Counterparts' Policy Decisions

<u>December 2016</u>	<u>May 2017</u>	<u>December 2017</u>
Phase III WIP Planning Methodology	Draft Phase III WIP Planning Targets	Final Phase III WIP Planning Targets
Conowingo Dam extra loads allocation	Final Phase 6 modeling tools	Presentation of Local Engagement Strategies
Climate change assessment procedures	Use of 2025 conditions in Phase III WIPs	Presentation of final Midpoint Assessment Profiles
Range of options for addressing climate change in Phase III WIPs	Quantification of Conowingo Dam extra loads to be offset	
Recommendations on Local Area Targets	If, when and how to address climate change in Phase III WIPs	
	Presentation of final Phase III WIP expectations	

# **Phase III WIP Expectations**



# Phase III WIP Expectations and Schedule

## Draft Expectations

- Optimize pollutant load reducing practices between 2018-2025
- Develop comprehensive local and federal engagement strategies
- Ensure new loads are offset
- Adjustments to Planning Targets
- Jurisdiction-specific expectations
- Placeholders for Conowingo, climate change, and local area targets

PhIII WIP Expectations	Release Dates
Preliminary Draft	June 27, 2016
Revised Draft	January 2017
Final Version	April/May 2017

# **Local Area Targets**

# CBP Local Area Targets Task Force

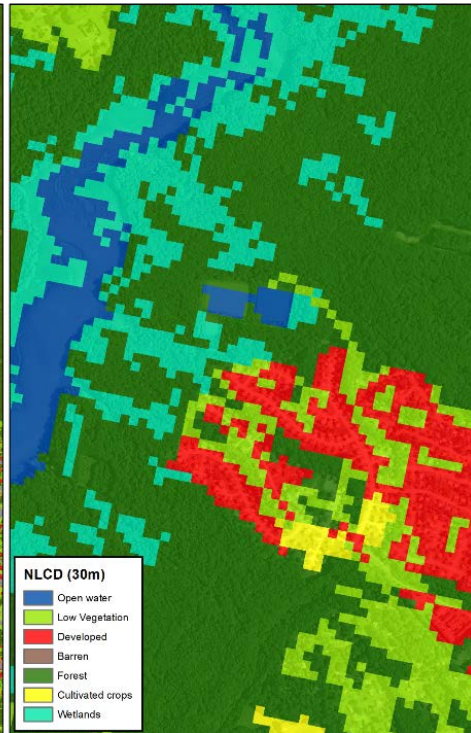
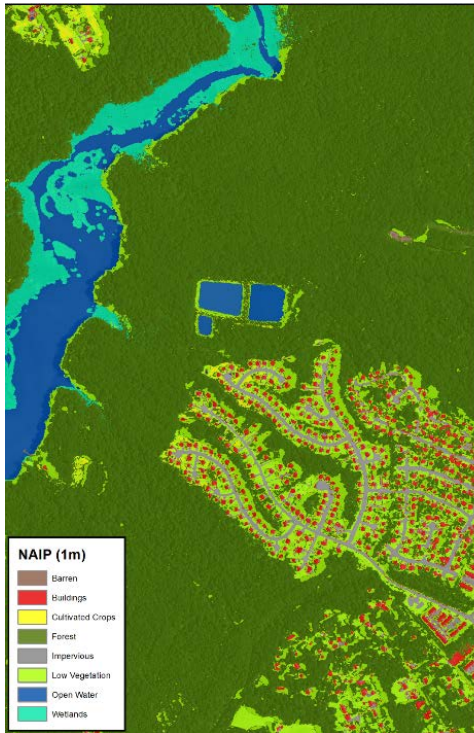
- **Why local area targets?**
  - Raise awareness of local partners' contributions, responsibilities
- **Task Force charged to develop recommendations on:**
  - Local area targets should be established; and if so
  - Options for how those targets could best be expressed
- **Preliminary options discussed by Task Force include:**
  - Percentage and quantification of BMP implementation goals
  - Programmatic Goals (e.g., post-construction performance standards)
  - Numeric nutrients and sediment reduction goals
- **Bottom Line:** Flexibility is key!!

Task Force Recommendations	Schedule
Preliminary Recommendations	October – December 2016
Partnership Webinar	February 2017
Final Recommendations	March – May 2017

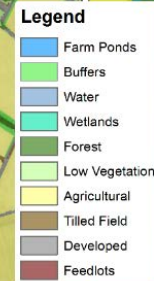
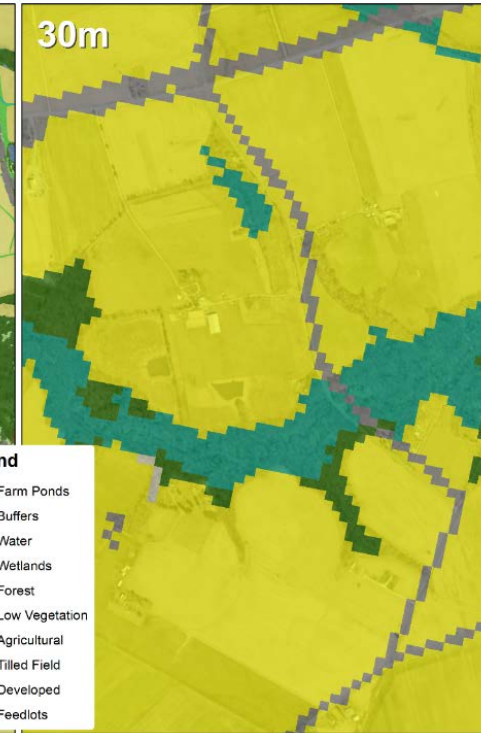
# Chesapeake Bay Watershed Land Cover Data

## Phase 5

## Phase 6



## Urban/Suburban Settings



## Rural Settings



**MWCOG  
Members  
Opportunities to  
Engage in  
Midpoint  
Assessment**

# Phase 6 Land Use Production Schedule

- **September 30:** Complete initial production of Phase 6 land use datasets for all counties in the watershed and disseminate for local review
- **October 31:** All local reviews of the Phase 6 land use datasets are complete
- **November 4:** All responses to reviewer comments are complete
- **December 2:** Phase 6 land use (1985 – 2014), delivered to the Partnership's Watershed Modeling Team

# Web Accessible Tools for Local Partners

The logo for BAYFAST is displayed in a white, serif font within a semi-transparent white rectangular box. The background of the entire header area is a photograph of plastic waste, including clear and brown plastic bottles and fragments, floating in dark water.

Facilities Scenarios Costs Scenario Worksheets Scenario Results

Log Out

## Octoraro-2017 Planned Summary Results

 Help

**Description:** Planned BMPs to hit 2017 Milestone target

**Facility:** Octoraro Watershed-draft

**Date Created:** 4/29/2015 4:38:17 PM

[Download Results](#) | [Compare Scenarios](#)

### Total Loads

Load Type	Lbs Nitrogen Edge of Stream	Lbs Nitrogen Delivered	Lbs Phosphorus Edge of Stream	Lbs Phosphorus Delivered	Lbs Sediment Edge of Stream	Lbs Sediment Delivered
Landuse	1,961,329.4	1,407,015.9	89,136.4	70,218.4	106,471,065.6	108,190,770.7
Septic	52,497.7	37,217.1	0.0	0.0	0.0	0.0
Total:	2,013,827.1	1,444,233.0	89,136.4	70,218.4	106,471,065.6	108,190,770.7

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**[www.epa.gov/chesapeakebaytmdl](http://www.epa.gov/chesapeakebaytmdl)**

