



Urban Sector Progress and Assistance

Presented at the
Maryland Chesapeake Bay WIP
Spring Regional Meeting

April 22, 2013

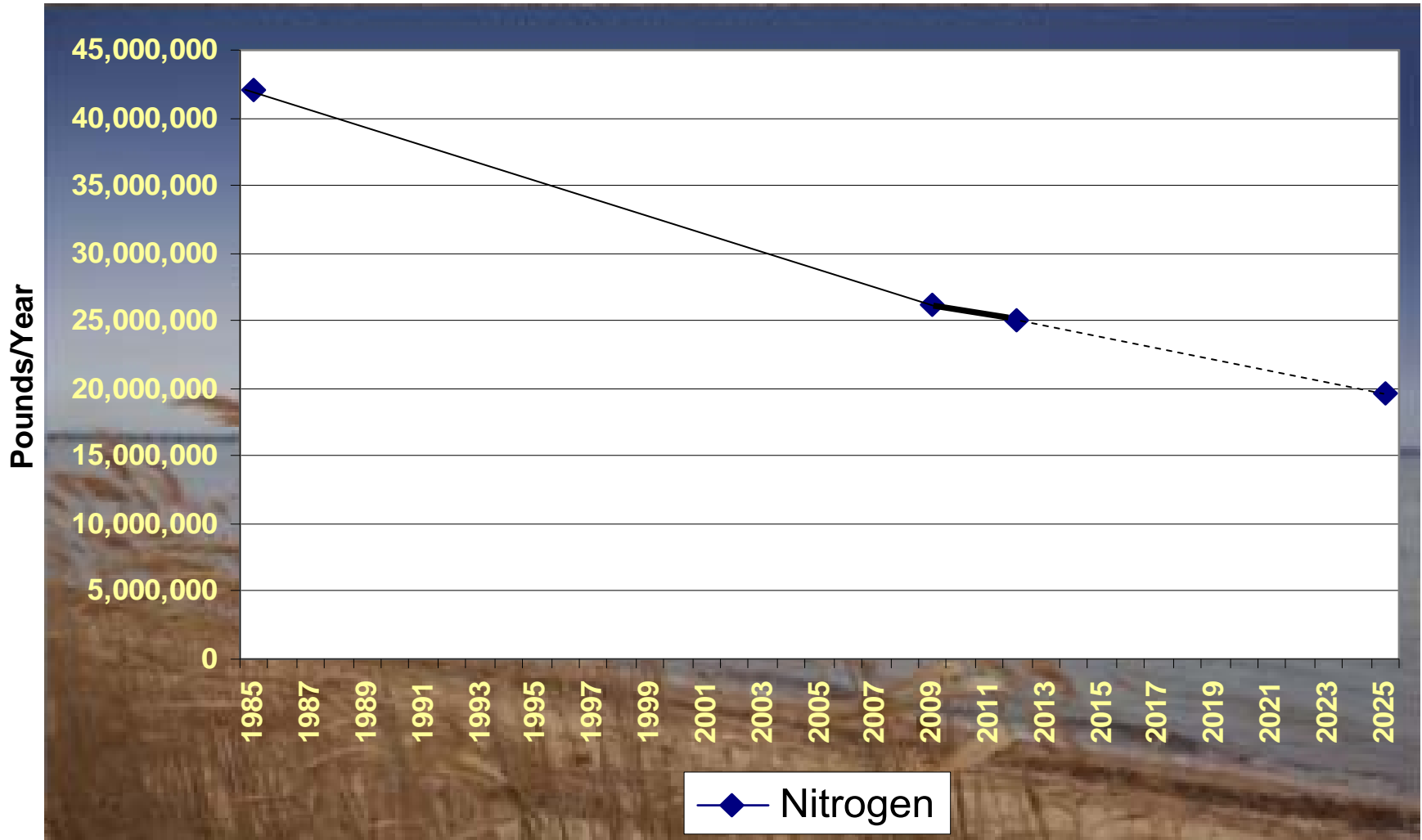


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Nitrogen Load Progress

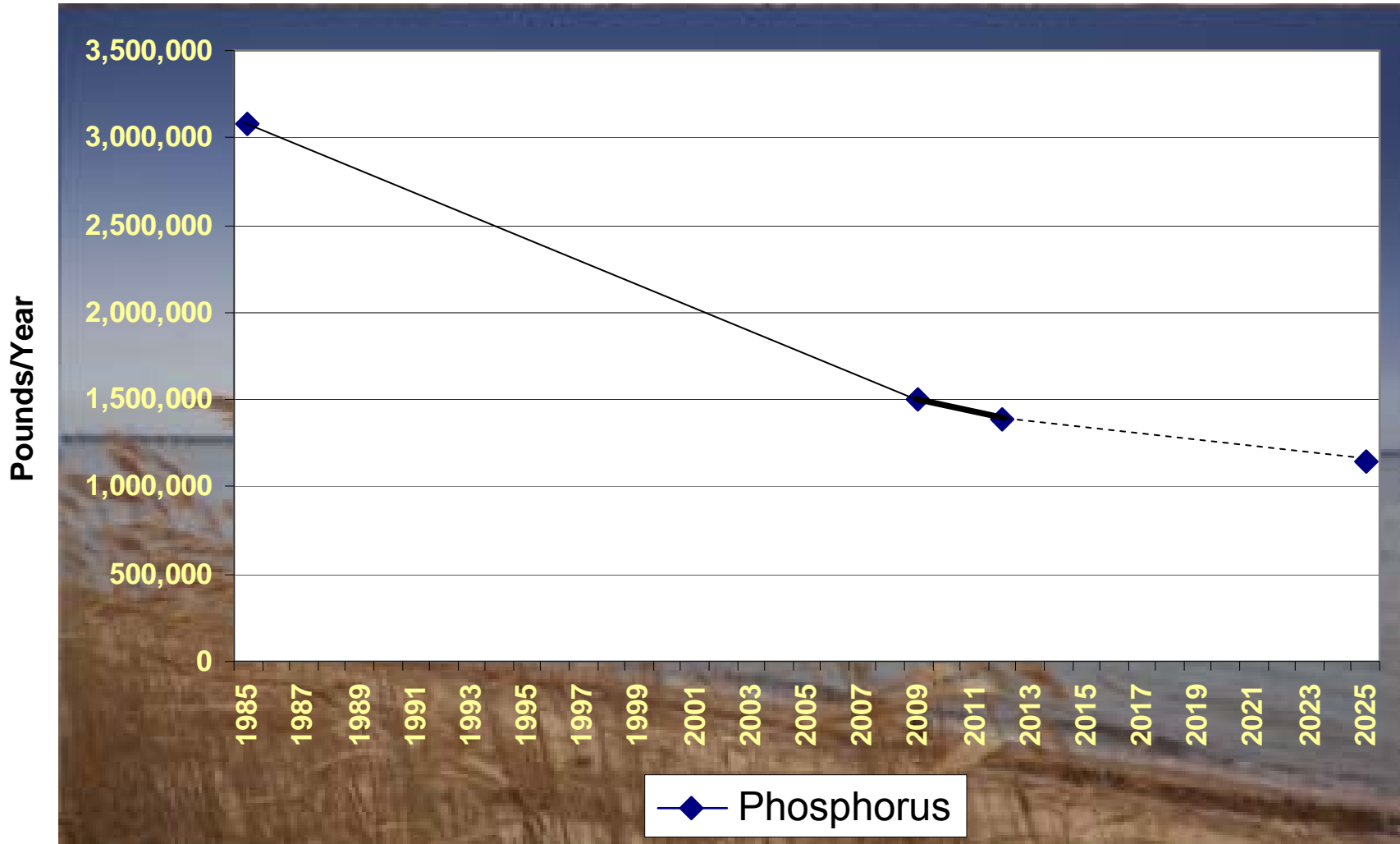
Stormwater, Point Sources & Septic System



1985-2009 —————
 2009-2012 —————
 WIP Linear Projection - - - - -



Phosphorus Load Progress Stormwater, Point Sources & Septic System



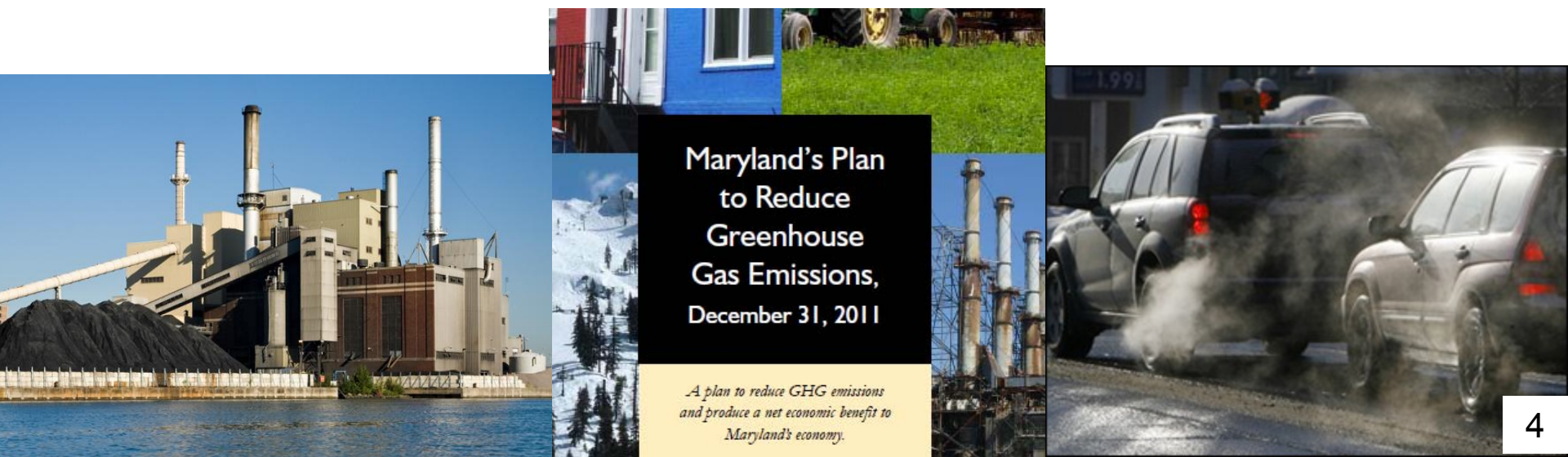
1985-2009 —————
 2009-2012 —————
 WIP Linear Projection - - - - -

Atmospheric Reductions

Incorporating the Following into the Model:

- Maryland Healthy Air Act (step-down in 2012)
- Greenhouse Gas Reduction Act of 2009: Strategy 2011
- Maryland Clean Car Program 2007: Phase-in 2012 - 2016
- Federal Tier 3 Fuel Standards (pending)

More Information: <http://www.mde.state.md.us/programs/air/Pages/index.aspx>



Progress

Stormwater

- Phase I MS4 Permits:
 - Draft permits submitted to EPA for review
 - Phase I Tentative Determinations:
 - Baltimore City, Prince George's County
 - Revised Schedule
- Phase II MS4 Permits:
 - State & Federal Facilities
 - Municipal
- MS4 Retrofit Guidance Revision



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MDP



MDE

Revising Retrofit Guidance

**ACCOUNTING FOR
STORMWATER
WASTELOAD ALLOCATIONS
AND
IMPERVIOUS ACRES TREATED**

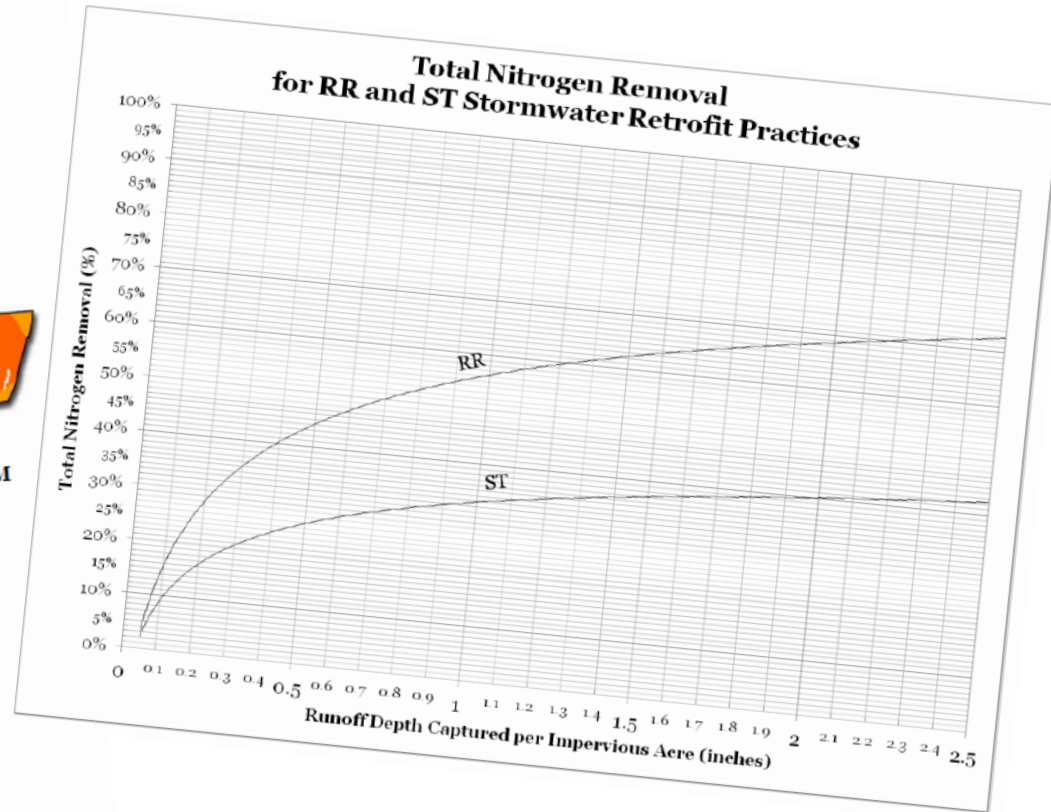
**GUIDANCE FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER PERMITS**

JUNE (DRAFT) 2011

MARYLAND
DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard | Baltimore, MD 21230-1718 | www.mde.state.md.us
410-537-3000 | 800-633-6101 | TTY Users: 800-735-2258

MARTIN O'MALLEY, GOVERNOR | ANTHONY G. BROWN, Lt. GOVERNOR | ROBERT M. SUMMERS, Ph.D., SECRETARY



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Progress Stormwater

- Revised Erosion & Sediment Control
 - New Standards and Specifications - 2011
 - Updated State Regulations - January 2012
 - Model Local Ordinance – February 2012
 - Phase-in Completed – January 2013
- Tracking & Reporting:
 - MS4 On-line Reporting Tool Being Developed
 - Interim On-line Reporting Tool - 2012:
<http://tinyurl.com/Simple-SW-MD>



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MDP



Interim Online Stormwater BMP Reporting Form



Maryland's Interim Collection Form for New BMP Reporting

This form serves as one method for entering Best Management Practice (BMP) Implementation information into a repository at the Maryland Department of the Environment (MDE). Questions regarding the BMP Form, or reporting of BMPs, should be addressed to the contact listed below.

* Required

Unique Permit Number:

Please make sure to format this information with a qualifier such as County Initials, or organization initials, prior to numbering as many partners may number similarly.

Unique Structure ID Number: *

Please make sure to format this information with a qualifier such as County Initials, or organization initials, prior to numbering as many partners may number similarly.

Date Submitted to MDE: *

MM/DD/YYYY

Type of Entity Submitting Form *

Federal Government

Name of Entity *

MDE Contact

Gregorio Sandi
Maryland Department of the Environment
1800 Washington Blvd.
Baltimore, MD 21230
Email: gsandi@mde.state.md.us
Tel: 410-537-3742

<http://tinyurl.com/Simple-SW-MD>



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Progress Stormwater

- Industrial Stormwater General Permit
 - Public Review completed January 2013
- HB 987 - Watershed Protection and Restoration Act
 - System of charges in place by July 1, 2013
- Chesapeake and Coastal Bays Trust Fund
- Bay Restoration Fund
 - 2012 Amendments Allow funding of Stormwater
 - Funds available in 2018

MDE Stormwater Program: <http://tinyurl.com/MDE-SW>



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Progress

Septic Systems

- Bay Restoration Fund (BRF)
 - Fee doubled from \$30 to 60/yr July 2012
 - Doubles Upgrades to 1,200 systems/year
 - Increase of Available Funding in 2018
- Sustainable Growth & Ag Preservation Act
- Regulations (BAT on New Development)
 - Effective January 1, 2013
 - <http://tinyurl.com/Septic-Reg-FAQ> (PDF)
- 75% BAT Technology Available

Bay Restoration Fund Advantex RT Monitoring Results And Analysis

Advantex RT

Project Address	Sample Date	Effluent TN	Percent Reduction
Project 1	22-Apr-11	15.8	73.67%
Project 1	07-Oct-10	19	68.33%
Project 1	07-Jan-11	18.3	69.50%
Project 1	06-Aug-10	13.7	77.17%
Project 2	14-Jul-11	15.5	74.17%
Project 2	05-Jan-11	17.6	70.67%
Project 2	08-Apr-11	17	71.67%
Project 2	09-Sep-10	2.6	79.00%
Project 2	12-Oct-10	15.8	73.67%
Project 12	27-Aug-10	21.3	64.50%
Project 12	15-Jan-11	14.7	75.50%
Project 12	21-Apr-11	15.3	74.50%

*Influent TN concentration assumed at 60 mg/L.

Mean Percent Reduction = 75.79%

Mean Effluent Concentration = 14.525

Source: Maryland Department of Environment Website.

More Info. on BAT Program: <http://tinyurl.com/MD-Septic-BAT>

Progress - Treatment Plants

Municipal:

- Bay Restoration Fund (BRF)
 - Fee doubled from \$30 to 60/yr July 2012
 - Major ENR Upgrades to be Completed in 2017
 - Minor Upgrades
 - Select Candidate Plants by 2014
 - Selection Criteria:
 - Current Load Reduction
 - Design Capacity
 - Smart Growth Objective
 - Ready-to-Proceed
 - BRF Advisory Committee <http://tinyurl.com/BRF-Cttee>

Progress - Treatment Plants

Industrial:

- Major Plants

- Originally 10

- New Status:

- 1 Ceased operations
- 2 Changed operations, limits now unnecessary
- 1 Closer review indicates nutrients not a concern
- 1 Permit to be issued by end of 2013
- 5 Have nutrient permit limits which will go into effect by 2015.

Progress Treatment Plants

Industrial:

- **Minor Discharges**

- Any new or expanded nutrient loads to be offset
- Renewed Permits: Confirming load levels
- Facilities Divided into Four Groups:
 - 1st Level (Smallest): Once load established, no further monitoring required.
 - 2nd Level: Permits will require monitoring, but no reductions.
 - 3rd Level: 25% reduction goals.
 - 4th Level: Individual nutrient limits to be established.

Progress

Accounting for Growth (AfG)

- Advisory Workgroup Established
 - Monthly Meetings: January – June 2013
- Options Matrix <http://tinyurl.com/AfG-Options-Matrix> (PDF)
- Draft Scoping Calculator <http://tinyurl.com/AfG-Calc-Tool> (.xls)
Instructions: <http://tinyurl.com/AfG-Calc-Guide> (PDF)
- Regulation Development by end of 2013



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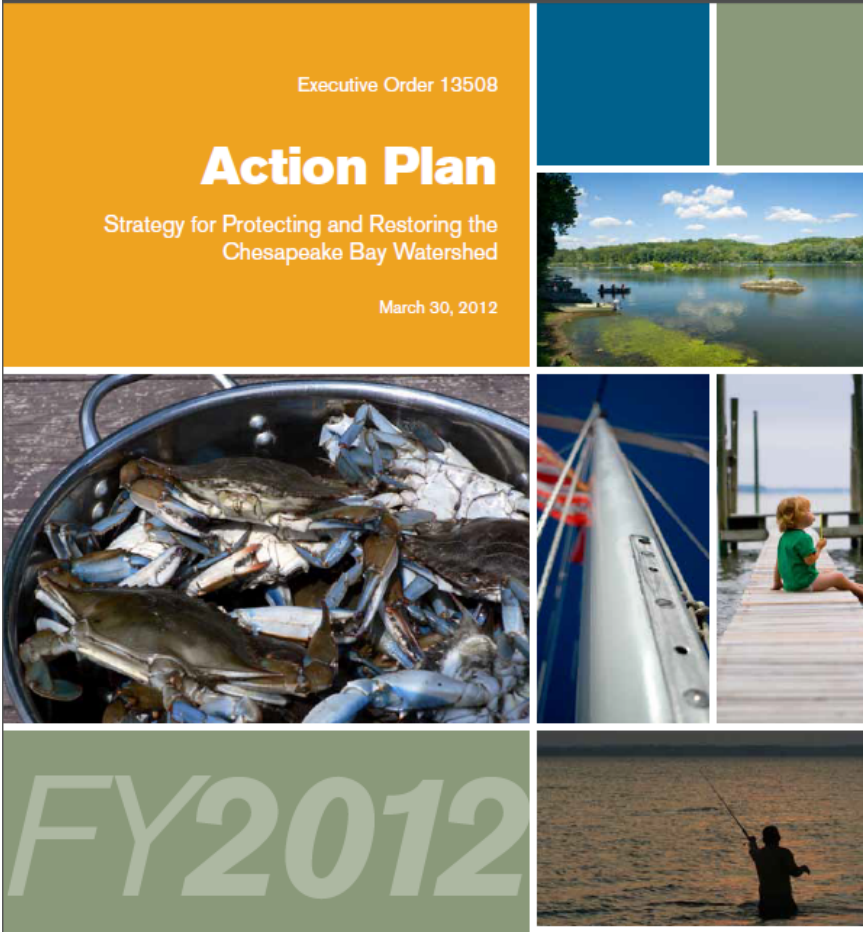
Federal Progress & Plans

Executive Order 13508

Action Plan


Strategy for Protecting and Restoring the Chesapeake Bay Watershed

March 30, 2012



FY2012

Developed by the Federal Leadership Committee for the Chesapeake Bay



<http://tinyurl.com/Fed-Bay-Action-2012>

End

