# Chesapeake Bay Program Goals

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GIT 6 Vice Chair
Presentation to the Management Board
1/10/13

# Where We Have Been

- GITs brought preliminary goals to the Management Board summer 2012
- Management Board focused on refined set of goals in Fall 2012 with a request to better streamline and organize.
- GIT chairs agreed to streamline into overarching goals and outcomes (Fall 2012)

# Presentation, Actions and Decisions

- Present draft goals and outcomes
- Provide history of their derivation
- Discuss with the Management Board
  - Do you have any advice on the presentation of the goals and outcomes related to consistency of presentation?
  - Do you agree that what is proposed is appropriate for the Chesapeake Bay Program Partnership?
  - Is there anything that you feel is missing?
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# Proposed Goal

## Similar CBP Goal

Chesapeake Bay Program
*A Watershed Partnership*

CHESAPEAKE 2000

PREAMBLE

The Chesapeake Bay is North America's largest and most biologically diverse estuary, home to more than 3,600 species of plants, fish and animals. For more than 300 years, the Bay and its tributaries have sustained the region's economy and defined its traditions and culture. It is a resource of extraordinary productivity, worthy of the highest levels of protection and restoration.

Accordingly, in 1983 and 1987, the states of Virginia, Maryland, Pennsylvania, the District of Columbia, the Chesapeake Bay Commission and the U.S. Environmental Protection Agency, representing the federal government, signed historic agreements that established the Chesapeake Bay Program partnership to protect and restore the Chesapeake Bay's ecosystem.

For almost two decades, we, the signatories to these agreements, have worked together as stewards to ensure the public's right to clean water and a healthy and productive resource. We have sought to protect the health of the public that uses the Bay and consumes its bounty. The initiatives we have pursued have been deliberate and have produced significant results in the health and productivity of the Bay's main stem, the tributaries, and the natural land and water ecosystems that compose the Chesapeake Bay watershed.

While the individual and collective accomplishments of our efforts have been significant, even greater effort will be required to address the enormous challenges that lie ahead. Increased population and development within the watershed have created ever-greater challenges for us in the Bay's restoration. These challenges are further complicated by the dynamic nature of the Bay and the ever-changing global ecosystem with which it interacts.

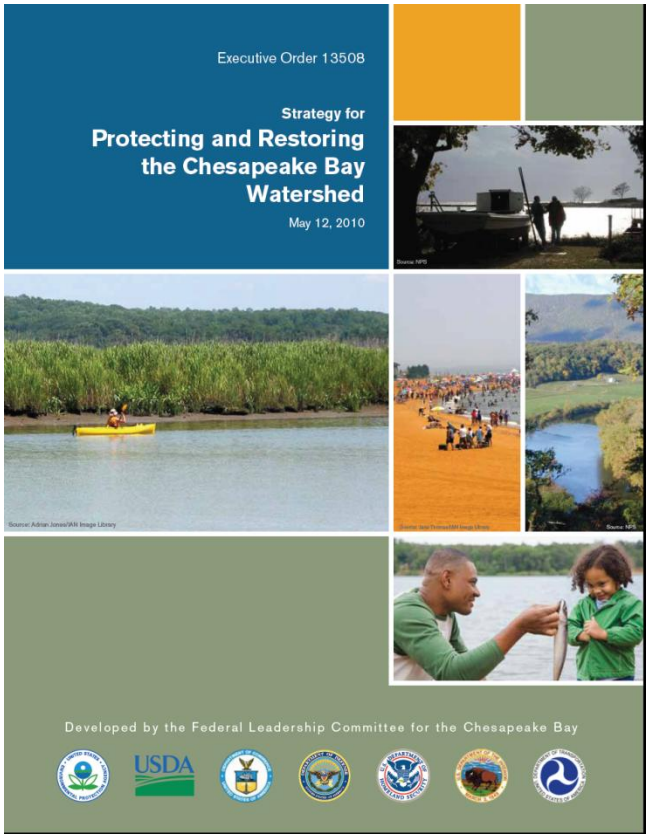
In order to achieve our existing goals and meet the challenges that lie ahead, we must reaffirm our partnership and recommit to fulfilling the public responsibility we undertook almost two decades ago. We must manage for the future. We must have a vision for our desired destiny and put programs into place that will secure it.

To do this, there can be no greater goal in this recommitment than to engage everyone — individuals, businesses, schools and universities, communities and governments — in our effort. We must encourage all citizens of the Chesapeake Bay watershed to work toward a shared vision — a system with abundant, diverse populations of living resources, fed by healthy streams and rivers, sustaining strong local and regional economies, and our unique quality of life.

In affirming our recommitment through this new *Chesapeake 2000*, we recognize the importance of viewing this document in its entirety with no single part taken in isolation of the others. This Agreement reflects the Bay's complexity in that each action we take, like the elements of the Bay itself, is connected to all the others. This Agreement responds to the problems facing this magnificent ecosystem in a comprehensive, multifaceted way.

BY THIS AGREEMENT, we commit ourselves to nurture and sustain a Chesapeake Bay Watershed Partnership and to achieve the goals set forth in the subsequent sections. Without such a partnership, future challenges will not be met. With it, the restoration and protection of the Chesapeake Bay will be ensured for generations to come.

## Similar EO Goal



**Sustainable Fisheries Goal**: Restore, enhance, and protect the finfish, shellfish and other living resources, their habitats and ecological relationships to sustain all fisheries and provide for a balanced ecosystem in the watershed and bay.

## Related CBP Goal

Restore, enhance, and protect the finfish, shellfish and other living resources, their habitats and ecological relationships to sustain all fisheries and provide for a balanced ecosystem

*Chesapeake 2000*

## Related EO Goal

Sustain healthy populations of fish and wildlife, which contribute to a resilient ecosystem and vibrant economy.

**Blue Crab Outcome:** Maintain sustainable blue crab population based on the current 2012 target of 215 million adult females (1+ years old) and continue to refine population targets between 2013 through 2025 based on best available science.

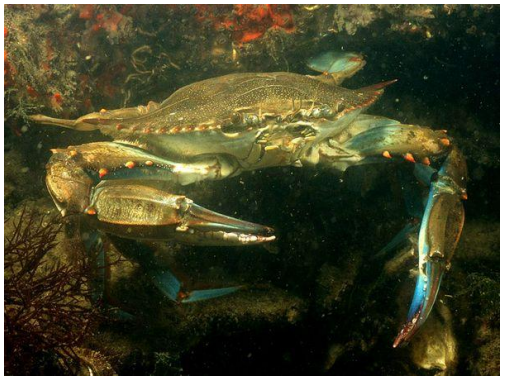
## Related CBP Commitment

By 2001, establish harvest targets for the blue crab fishery and begin implementing complementary state fisheries management strategies Baywide. Manage the blue crab fishery to restore a healthy spawning biomass, size and age structure.

*Chesapeake 2000*

## Related EO Outcome

Maintain sustainable blue crab interim rebuilding target of 200 million adults (1+ years old) in 2011 and develop a new population target for 2012 through 2025.



**Oyster Outcome:** Restore native oyster habitat and populations in 20 tributaries by 2025.

## Related CBP Commitment

- By 2010, achieve, at a minimum, a tenfold increase in native oysters in the Chesapeake Bay, based upon a 1994 baseline.

*Chesapeake 2000*

## Related EO Commitment

- Restore native oyster habitats and populations in 20 out of 35 to 40 candidate tributaries by 2025.

**Fisheries Outcome:** Improve fisheries health and production by connecting land use decision making with ecosystem science and policy and creating a precautionary management approach to ensure the sustainability of Chesapeake bay fisheries resources across jurisdictions

## Related CBP Commitment

By 2007, revise and implement existing fisheries management plans to incorporate ecological, social and economic considerations, multi-species fisheries management and ecosystem approaches

*Chesapeake 2000*

## Related EO Outcome

- None

**Vital Habitats Goal:** Restore, enhance, and protect a network of land and water habitats to support priority species and to afford other public benefits, including water quality, recreational uses and scenic value across the watershed.

## Related CBP Goal

Preserve, protect and restore those habitats and natural areas that are vital to the survival and diversity of the living resources of the Bay and its rivers.

## Related EO Goal

Restore a network of land and water habitats to support priority species and to afford other public benefits, including water quality, recreational uses and scenic value across the watershed.

*Chesapeake 2000*

**Wetlands Outcome:** Restore 30,000 acres of tidal and non-tidal wetlands and enhance function of an additional 150,000 acres of degraded wetlands, and protect an additional 225,000 acres of wetlands by 2025

## Related CBP Commitment

By 2010, achieve a net resource gain by restoring 25,000 acres of tidal and non-tidal wetlands. To do this, we commit to achieve and maintain an average restoration rate of 2,500 acres per year basin-wide by 2005 and beyond.

*Chesapeake 2000*

## Related EO Outcome

Restore 30,000 acres of tidal and non-tidal wetlands and enhance the function of 150,000 additional acres of degraded wetlands by 2025

***Black Duck Objective:*** *Restore wetland habitats to support wintering black duck population in the watershed of 100,000 birds by 2025.*

**Related CBP Commitment**

Waterfowl policy

**Related EO Commitment**

Restore a three-year average wintering black duck population in the Chesapeake Bay watershed of 100,000 birds by 2025

**Stream Restoration Outcome:** Restore stream health and function so that 70% of sampled stream sites throughout the watershed rate fair, good or excellent as measured by the Index of Biotic Integrity by 2025.

## Related CBP Commitment

By 2001, each jurisdiction will develop guidelines to ensure the aquatic health of stream corridors. Guidelines should consider optimal surface and groundwater flows.

## Related EO Outcome

Improve the health of streams so that 70 percent of sampled streams throughout the Chesapeake watershed in a condition of fair, good or excellent as measured by the Index of Biotic Integrity by 2025

*Chesapeake 2000*

***Brook Trout Objective:*** *Increase naturally reproducing brook trout populations in headwater stream by increasing occupied patch area by 8% by 2025*

## Related CBP Commitment

None

## Related EO Commitment

Restore naturally reproducing brook trout populations in headwater streams by improving 58 sub-watersheds from “reduced” classification (15-50 percent of habitat loss) to “healthy” (less than 10 percent of habitat loss) by 2025.

***Fish Passage Objective:*** *During the period of 2011-2025, restore historical fish migratory routes by opening 1,000 additional stream miles. Measure success by monitoring for the presence of river herring, American shad, Hickory shad, Brook Trout and/or eel in 50% of the restored rivers and streams.*

## Related CBP Commitment

During the period 2005-2014, the Chesapeake Bay jurisdictions will complete 100 fish passage and/or dam removal projects, which will open 1,000 miles of high quality tributary habitat to migratory and resident fishes. . .

*2005 EC Commitment*

## Related EO Outcome

Restore historical fish migratory routes by opening an additional 1,000 stream miles by 2025, with restoration success indicated by the presence of River herring, American shad and/or American eel

**Submerged Aquatic Vegetation Outcome**: Achieve and maintain 185,000 acres of SAV in Chesapeake Bay to meet water quality standards.

## Related CBP Commitment

- *By December 2002, implement a strategy to accelerate protection and restoration of SAV beds in areas of critical importance to the Bay's living resources.*
- The new Baywide SAV goal is to achieve 185,000 acres by 2010.

*Chesapeake 2000 and 2003 Strategy to* Accelerate the Protection and Restoration of Submerged Aquatic Vegetation in the Chesapeake Bay

## Related EO Outcome

Meet water quality standards for dissolved oxygen, **clarity/underwater grasses** and chlorophyll-a in the Bay and tidal tributaries by implementing 100 percent of pollution reduction actions for nitrogen, phosphorus and sediment no later than 2025, with 60 percent of segments attaining water quality standards by 2025

**Riparian Forest Buffers Outcome:** 63 percent of all streams buffered by 2025

**Related CBP Commitment**

By 2020, accelerate reforestation and conservation in . . . Riparian forest buffers, by reaching a restoration rate of 900 miles/year until 70% of all stream miles in the watershed are buffered over the long term

**Related EO Outcome**

Restore riparian forest buffers to 63 percent, or 181,440 miles, of the total riparian miles (streambank and shoreline miles) in the Bay watershed by 2025.

**Water Quality Goal:** Restore water quality to achieve standards for DO, clarity/SAV, and chlorophyll-a in the Bay and its tidal waters as articulated in the Chesapeake Bay Total Maximum Daily Load (TMDL)

## Related CBP Goal

Achieve and maintain the water quality necessary to support the aquatic living resources of the Bay and its tributaries and to protect human health.

*Chesapeake 2000*

## Related EO Goal

Reduce nitrogen, phosphorus, sediment and other pollutants to meet Bay water quality goals for dissolved oxygen, clarity, chlorophyll-a and toxic contaminants

**2025 WIP Outcome:** Have all controls installed by 2025 to achieve the Bay's DO, water clarity/SAV , and chlorophyll a criteria.

## Related CBP Commitment

By 2010, correct the nutrient- and sediment-related problems in the Chesapeake Bay and its tidal tributaries sufficiently to remove the Bay and the tidal portions of its tributaries from the list of impaired waters under the Clean Water Act.

*Chesapeake 2000*

Meet water quality standards for dissolved oxygen, clarity/ underwater Bay grasses and chlorophyll-a in the Bay and tidal tributaries by implementing 100 percent of pollution reduction actions for nitrogen, phosphorus and sediment no later than 2025.

*EC meeting 2009*

## Related EO Outcome:

Meet water quality standards for dissolved oxygen, clarity/underwater grasses and chlorophyll-a in the Bay and tidal tributaries by implementing 100 percent of pollution reduction actions for nitrogen, phosphorus and sediment no later than 2025, with 60 percent of segments attaining water quality standards by 2025

**2017 WIP Outcome:** Have practices in place by 2017 that will achieve 60 percent of the reductions necessary to achieve applicable water quality standards compared to 2009 levels.

## Related CBP Commitment

- Accepted in Summer 2009
- WQ GIT endorsed Decision framework with this in it in 2012

## Related EO Outcome

No outcome specific to this but in strategy to meet the 2025 outcome of 100% of practices in place

**Healthy Watersheds Goal:** Maintain local watersheds at optimal health across a range of landscape contexts.

**Related CBP Goal:**

Develop, promote and achieve sound land use practices which protect and restore watershed resources and water quality, maintain reduced pollutant loadings for the Bay and its tributaries, and restore and preserve aquatic living resources.

*Chesapeake 2000*

**Related EO Goal**

- None

**Healthy Waters Outcome:** State identified healthy waters remain healthy

## Related CBP Commitment

- None

## Related EO Outcome

- None

**Stewardship Goal:** Promote stewardship and assist citizens, communities and local governments in undertaking initiatives to achieve restoration and conservation in the Chesapeake region.

## Related CBP Goal:

Promote individual stewardship and assist individuals, community-based organizations, businesses, local governments and schools to undertake initiatives to achieve the goals and commitments of this agreement.

*Chesapeake 2000*

## Related EO Goal:

Conserve landscapes to maintain water quality, habitat, sustainable working forests, farms and maritime communities

**Land Conservation Goal:** Conserve landscapes treasured by citizens to maintain water quality and habitat; sustain working forests, farms and maritime communities; and conserve lands of cultural, indigenous and community value.

## Related CBP Commitment

Develop, promote and achieve sound land use practices which protect and restore watershed resources and water quality, maintain reduced pollutant loadings for the Bay and its tributaries, and restore and preserve aquatic living resources.

*Chesapeake 2000*

## Related EO Goal

Conserve landscapes to maintain water quality, habitat, sustainable working forests, farms and maritime communities; and cultural, community and indigenous values. . .

**Protected Lands Outcome:** Protect an additional 2 million acres of lands throughout the watershed currently identified as high conservation priorities at the federal, state, or local level by 2025

## Related CBP Commitment

. . . Permanently preserve from development 20 percent of the land area in the watershed by 2010.

*Chesapeake 2000*

## Related EO Outcome:

Protect an additional 2 million acres of lands throughout the watershed currently identified as high conservation priorities at the federal, state, or local level by 2025 including 695,000 acres of forest land of highest value for maintaining water quality

**Public Access Goal:** Expand public access to the Bay and its tributaries through existing and new local, state and federal parks, refuges, reserves, trails and partner sites.

## Related CBP Goals

No goals, see next slide for commitment

## Related EO Goals

. . . It will also expand public access to the Bay and its tributaries through existing and new federal, state, and local parks, refuges, reserves, trails, and partner sites.

**Public Access Outcome:** Increase public access by adding 300 new public access sites by 2025

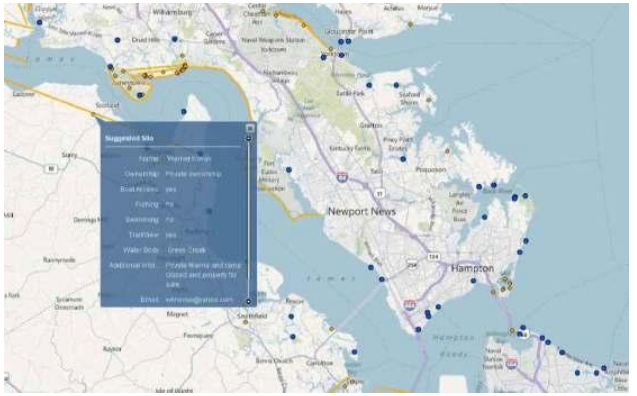
## Related CBP Commitment

By 2010, expand by 30 percent the system of public access points to the Bay, its tributaries and related resource sites in an environmentally sensitive manner by working with state and federal agencies, local governments and stakeholder organizations.

*Chesapeake 2000*

## Related EO Outcome

Increase public access to the Bay and its tributaries by adding 300 new public access sites (40 percent increase) by 2025.



**Environmental Literacy Goal:** Ensure that students in Chesapeake Bay Watershed states graduate environmentally literate wit the tools they need to make informed choices to protect and restore the Chesapeake Bay

## Related CBP Goal

No goal. Commitment –

Make education and outreach a priority in order to achieve public awareness and personal involvement on behalf of the Bay and local watersheds

## Related EO Goal

None

## Environmental Literacy Outcome: TBD

### Related CBP commitment

Beginning with the class of 2005, provide a meaningful Bay or stream outdoor experience for every school student in the watershed before graduation from high school.

### Related EO Outcome

None

**Partnering and Leadership Goal:** Continually improve governance and management to ensure Program effectiveness, efficiency, accountability and partner participation.

## Related CBP Goal

Support and enhance the present comprehensive, cooperative and coordinated approach toward management of the Chesapeake Bay System.

## Related EO Goal

None

*1987 Chesapeake Bay Agreement*

# What May Be Missing?

## CBP Keystone Commitments not addressed

- By 2010, work with local governments, community groups and watershed organizations to develop and implement locally supported watershed management plans in 2/3 of the Bay watershed covered by this Agreement . . .
- Conserve existing forests along all streams and shorelines.
- By 2012, reduce the rate of harmful sprawl development of forest and agricultural land in the Chesapeake Bay watershed by 30 percent . . .

## EO Outcomes not addressed

- Meet water quality standards . . . With 60 percent of segments attaining water quality standards by 2025.
- Agriculture Conservation: Work with the producers to apply new conservation practices on 4 million acres of working agricultural lands in high priority watershed by 2025 to improve water quality in the Chesapeake Bay and its tributaries.
- 4 Supporting Strategies
  - Expand Citizen Stewardship
  - Respond to Climate Change
  - Develop Environmental Markets
  - Strengthen Science

# Advisory Committee Early Feedback

- Human Element is missing – Need social and economic indicators/outcomes
- Toxic Contaminants goals are missing
- Where are the opportunities to set goals for emerging issues?
- Seems to be a lack of focus on adult education and minority-focused outreach.

# Presentation, Actions and Decisions

- Present draft goals and outcomes
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