Restoring Chesapeake Bay

in lyst

Progress & Challenges

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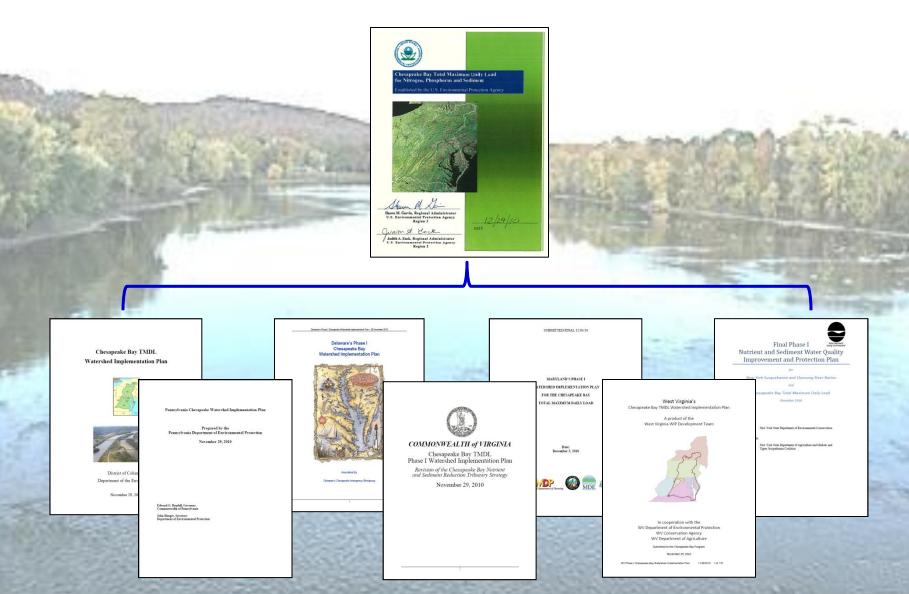




PROGRESS

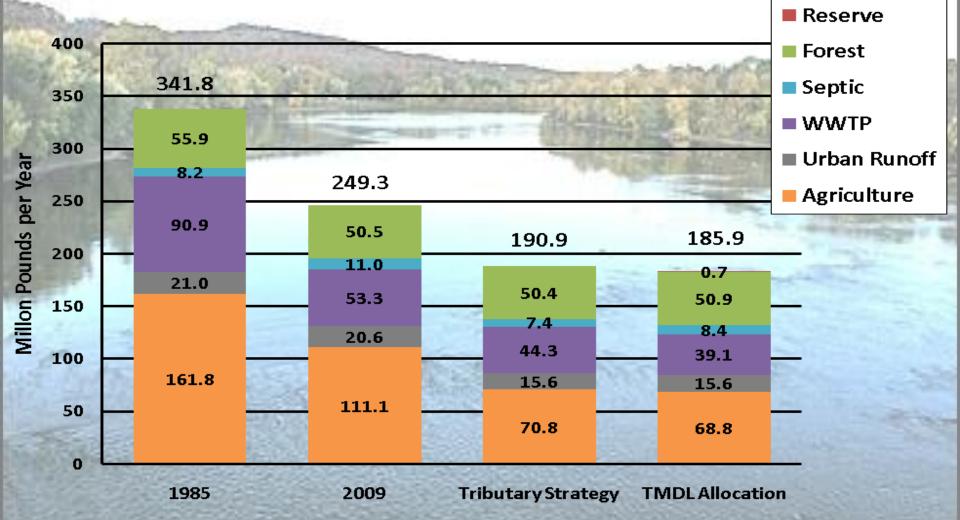


Strong WIPs & Milestones

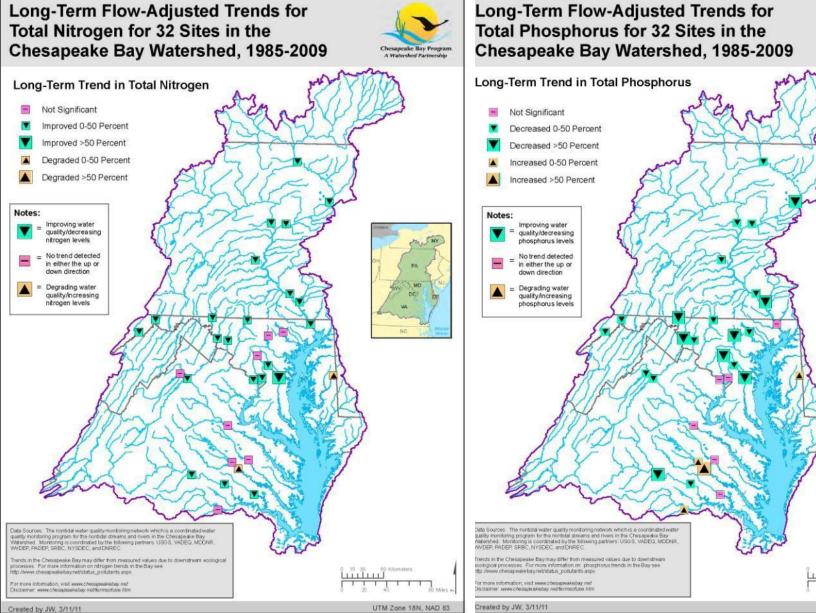


Loads are Going Down

Nitrogen Loads by Source Sector and Scenario -Watershed Model Phase 5.3



Trends are in the Right Direction



UTM Zone 18N, NAD 83

Chesapeake Bay Program

A Watershed Partnershi

MD

DC

Bay Health is Improving

State of the Bay – up 10% in 5 Years

Dead Zones Shrinking
2012 – 2nd smallest since 1985
Declining since 1980s (Johns Hopkins/UMCES)
Crab Population Rebounding
Oysters – Turning the Corner??

Resiliency Increasing

Less Impact from Extreme Weather

- Oysters Surviving

- SAV Flourishing

States Increasing Implementation Efforts

Regulatory Actions

Budget Increases

Legislative Initiatives

So Why a TMDL?

Progress – but not enough

Impaired Waters Lists

Legal Action in late 90s

Chesapeake 2000 Agreement - Delist



Restoring Chesapeake Bay

TMDL

A Voluntary/Cooperative Approach



Legal Challenges

TMDL (Farm Bureau/Homebuilders)

Trading (F&WW, Friends of the Earth)

MD Counties (Funk & Bolton)

Accotink Creek (VA and Fairfax Co.)

TMDL/Model Intricacies

Computer Model

*Allocations

Conowingo Dam

Data Tracking/Verification

- We can only count what's real
- How much info is enough? Too much?
- New Technologies?

We have to show this works...and be certain about it!

Local Government Buy-In

Provide the tools they need:

Env Finance Forums Technical Contractor Support Grant Funding - \$10m last year Permit Streamlining (e.g., Stream Restoration) Mid-Pt Assessment - improved tools LGAC Forums for Local Elected On-Line info (Ches Network, ChesStat)

Stormwater

*80/20

Redesigning Communities

MD, DC, VA Permits – Test Cases - New Era

Trading/Offsets

It's Coming – Like it or not

*PRIVATE CAPITAL

How much will it help?

How to garner support from opponents?

Flexibility

EPA Must Allow for Flexibility

So do the many stakeholders watching our progress

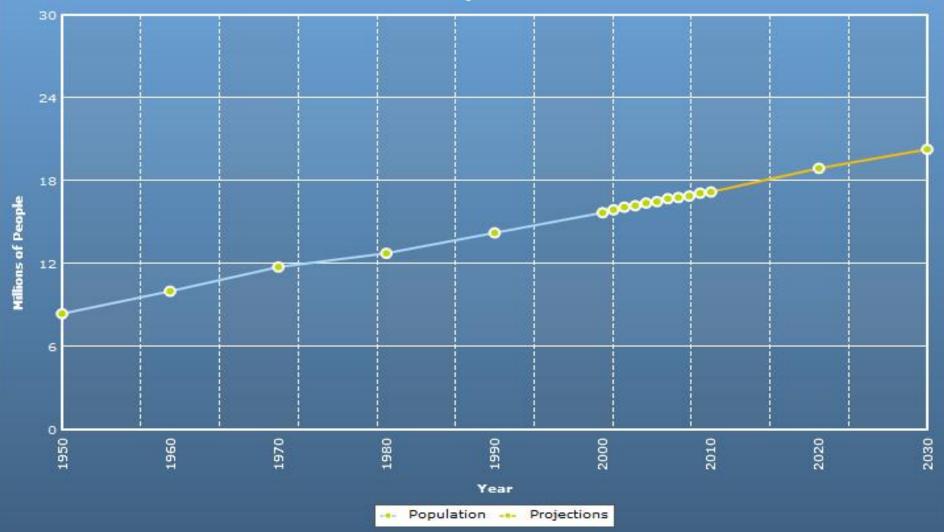
Costs vs. Benefits

We (none of us) have adequately emphasized the benefits of a restored Bay and rivers

EPA has committed to calculating both costs and benefits

TMDL is a Ceiling

Population



Next Steps

Implement!!

Measure/Show Progress Adapt/Flex/Innovate as Necessary **Milestones – Tough Decisions** Phase III (2017) – Reeavaluate **Private Capital?**



