# Restoring Chesapeake Bay

in lyst

# **Progress & Challenges**

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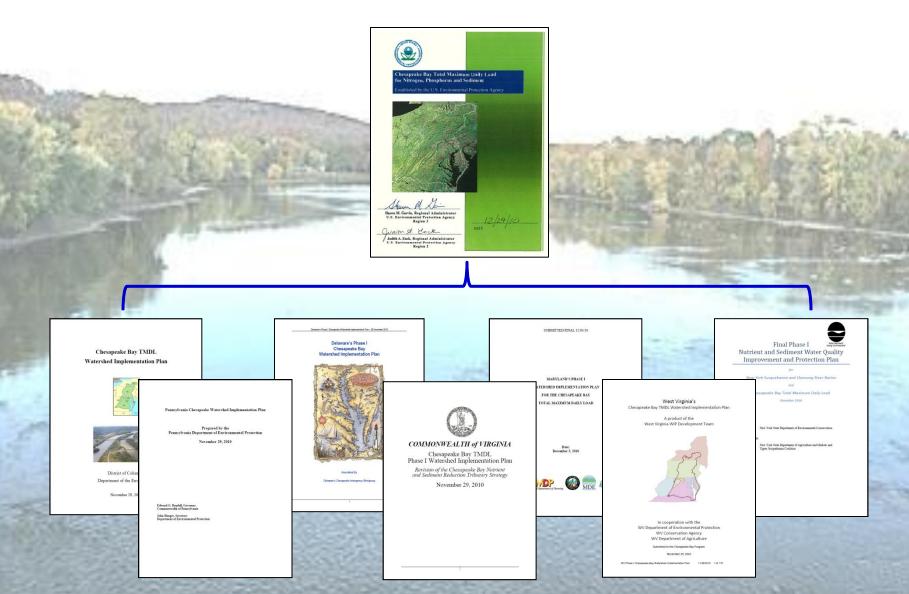




# PROGRESS

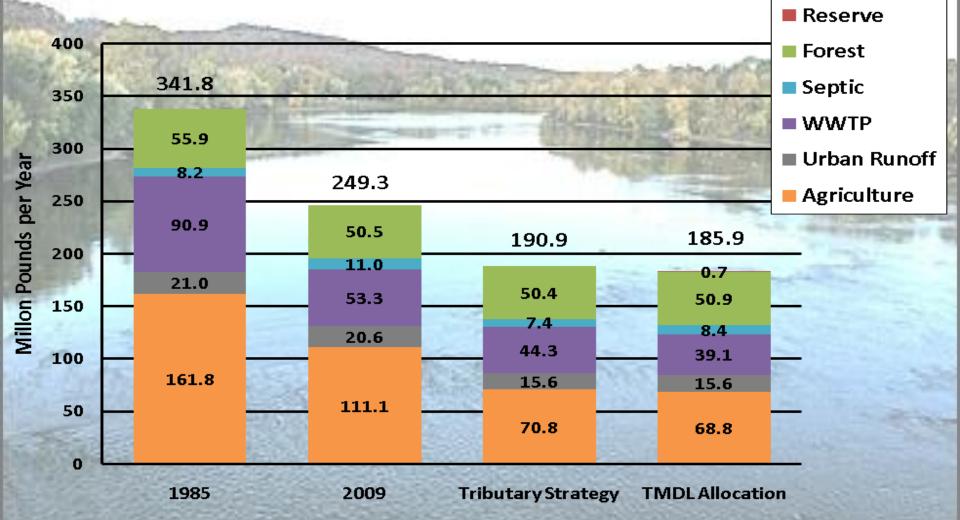


### **Strong WIPs & Milestones**

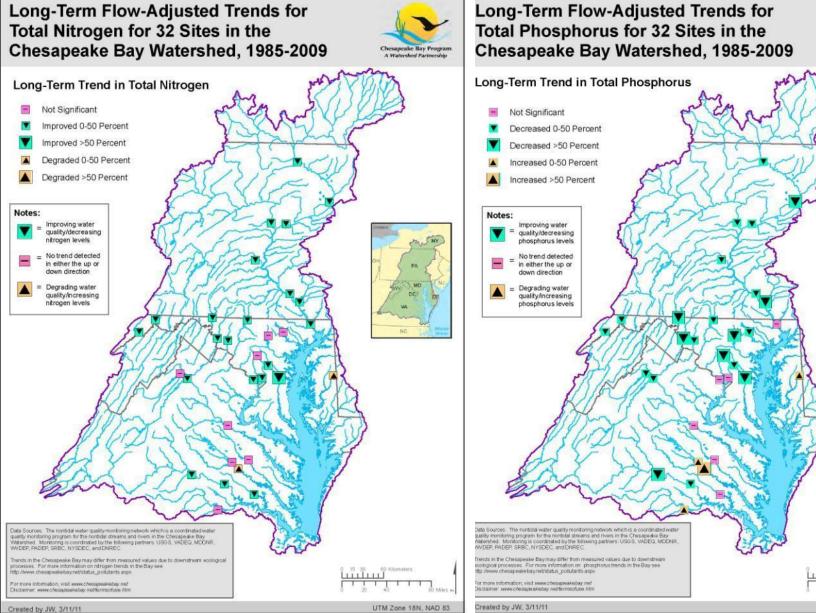


# Loads are Going Down

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 – 2<sup>nd</sup> 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

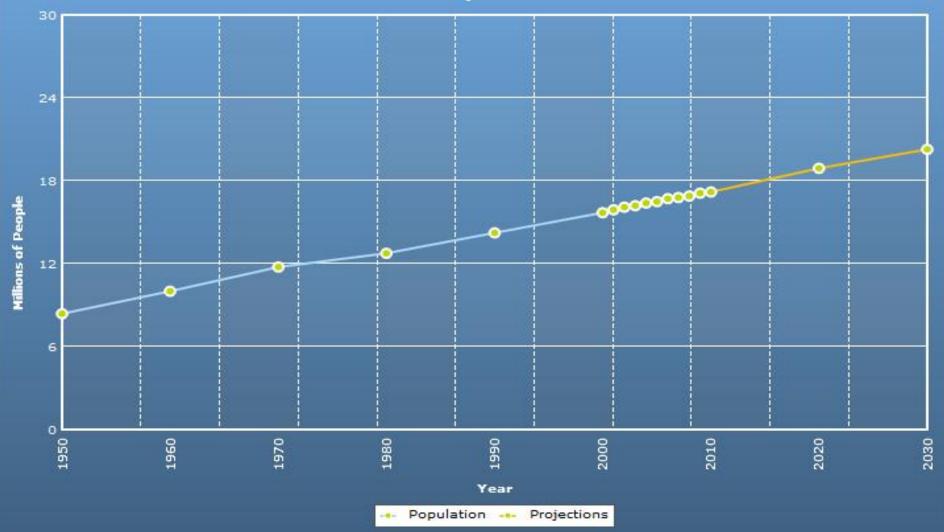
### **Costs vs. Benefits**

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?** 



