



Maryland
Department of
the Environment

Maryland's Phase III WIP

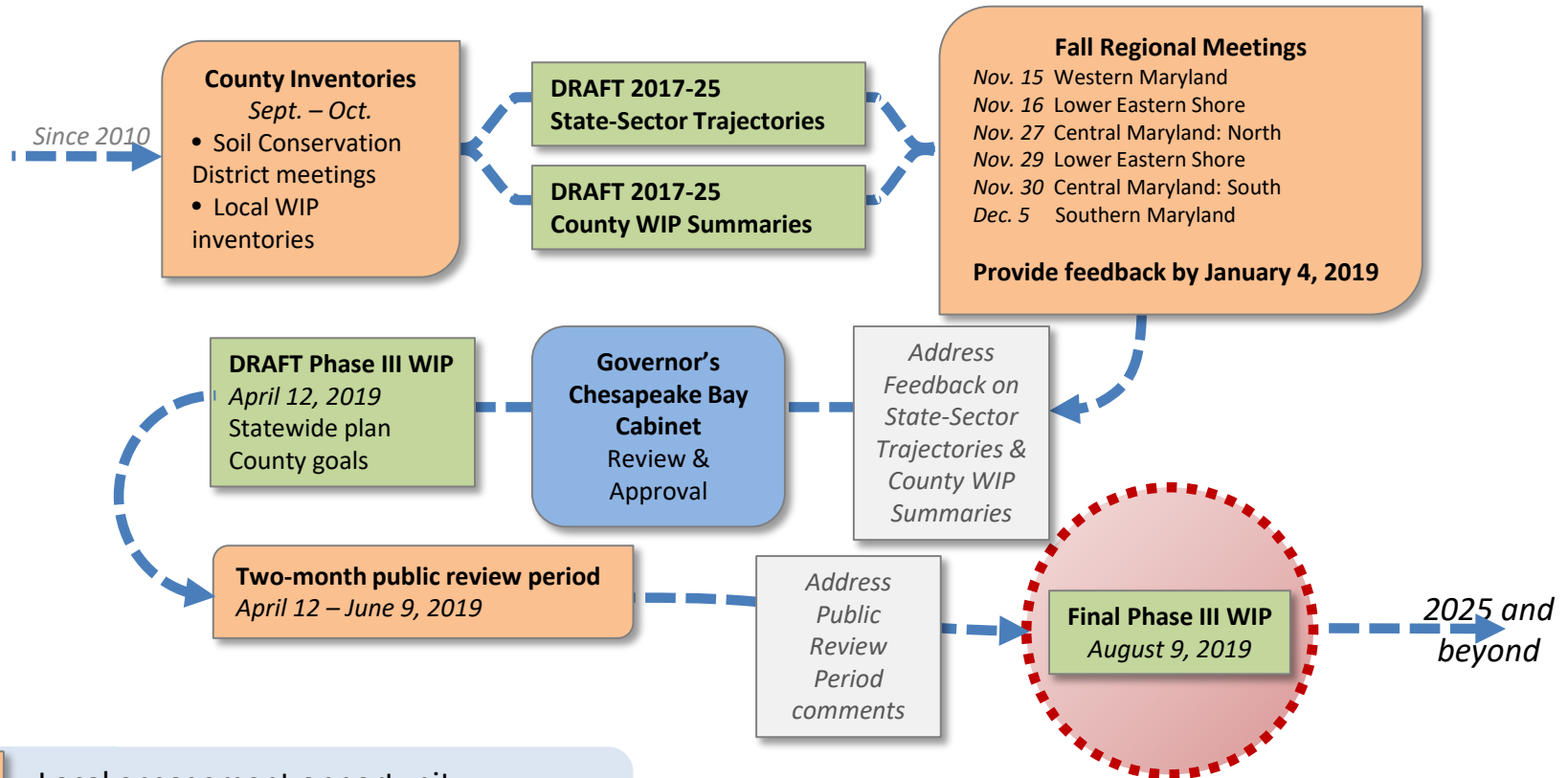
Planning for 2025 and beyond

Kathy Stecker

MD Department of the Environment
kathy.stecker@maryland.gov



MD's Phase III WIP Process





Maryland's trajectory

- Trajectories based on:
 - Current permits
 - Historic performance
 - Planned projects
 - Current commitments
 - Appropriate level of funding
 - Estimated 2025 growth
- Four Sectors
 - Agriculture
 - Wastewater
 - Stormwater
 - Septics
- Statewide
 - Phase III WIP Targets



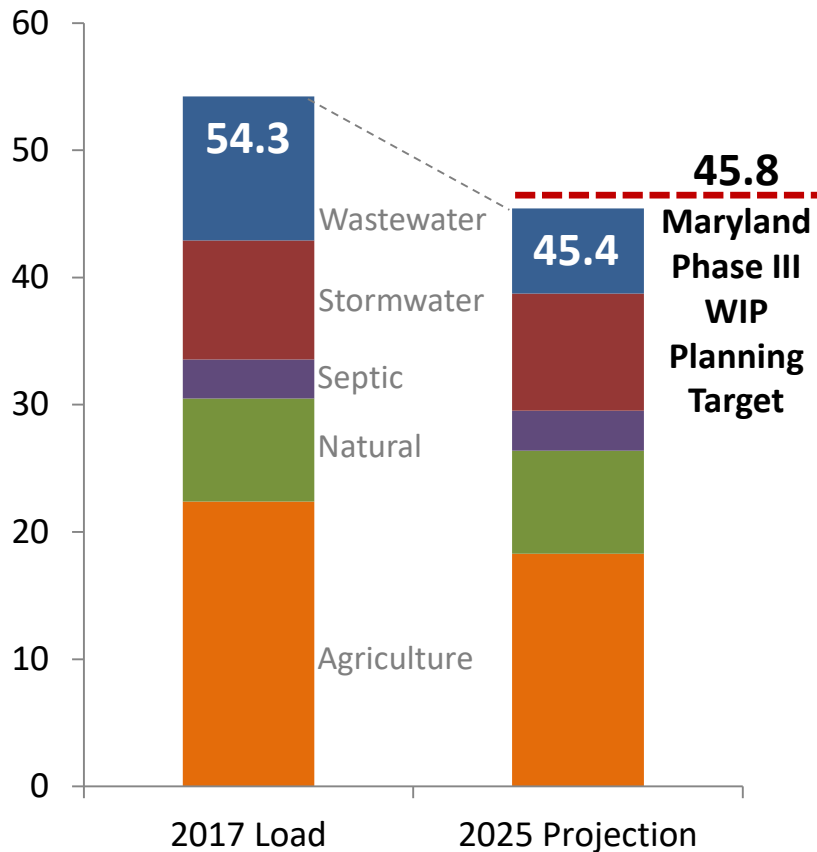
The trajectories presented today are not the state Phase III WIP goals.
Goals will be established in the final Phase III WIP document.



Statewide | Projection

Nitrogen

Million pounds delivered to bay from Maryland



Potential 8.8-million-pound (16%) reduction

These numbers are not final.

They are draft projections of Maryland's 2025 nitrogen load.

These are being provided for public feedback.

Both this analysis and today's feedback will be taken into consideration in Maryland's final Phase III WIP.

The state's Phase III WIP will differ from the numbers presented here.



Stormwater | Trajectory

Legacy stormwater

- Current Phase I MS4 Permits
 - 20% retrofit of impervious acres
 - 35,000 impervious acres
- Current Phase II MS4 Permit
 - 20% retrofit of impervious acres
 - 15,000 impervious acres
- Non-MS4 Jurisdictions

New Stormwater

- Urban growth
 - 2,900 acres of new development per year
 - 900 acres impervious
 - Environmental site design

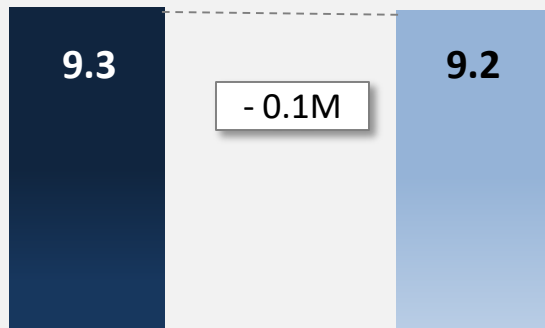




Stormwater | 2025 Projections

Nitrogen

million pounds to the bay

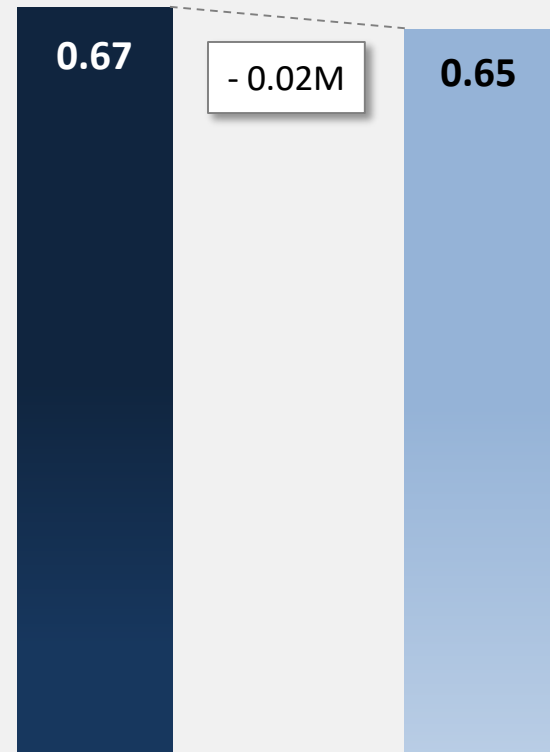


Actual 2017

Projected 2025

Phosphorus

million pounds to the bay



Actual 2017

Projected 2025

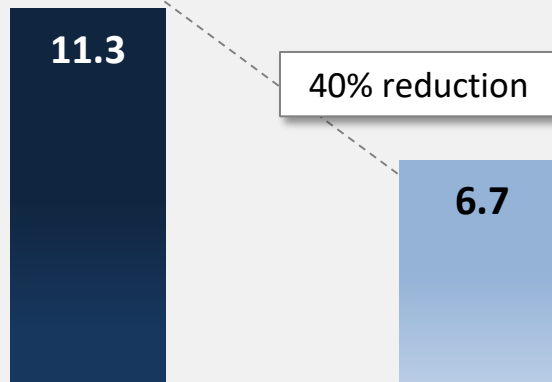
Based on Phase 6 CAST: 2017 Progress scenario



Wastewater | 2025 Projections

Nitrogen

million pounds to the bay

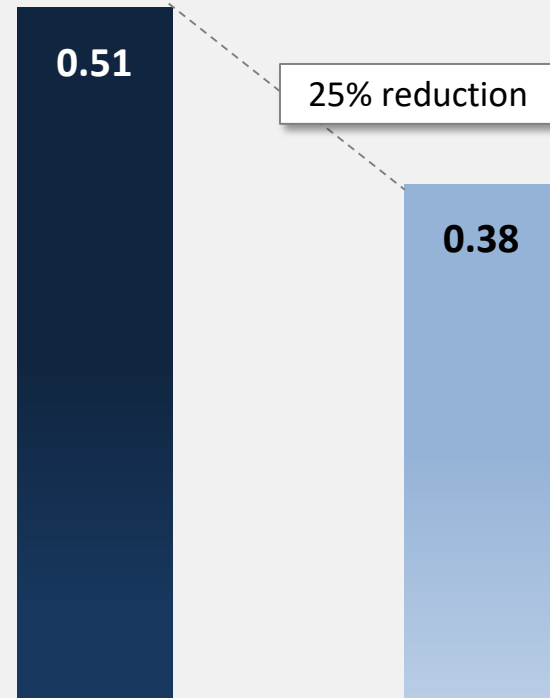


Actual 2017

Projected 2025

Phosphorus

million pounds to the bay



Actual 2017

Projected 2025

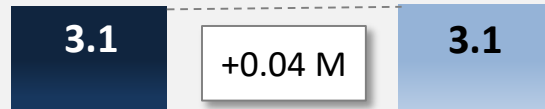
Based on Phase 6 CAST: 2017 Progress scenario



Septic | 2025 Projections

Nitrogen

million pounds to the bay



Actual 2017

Projected 2025

Phosphorus

million pounds to the bay

No phosphorus loads associated with septic systems in CAST



Thinking beyond 2025

- Agriculture and wastewater provide most of our expected reductions out to 2025
- Need to consider
 - Population growth of 35,000 per year
 - Potential further reductions to address climate change
 - The Bay TMDL specifies additional reductions from stormwater and septics
- Need to plan for continued implementation beyond 2025
- Building structural capacity
 - Permanent rather than annual BMPs
 - Reductions for after 2025 need to be planned today





To Provide Feedback or More Information

- **Local stormwater, septic, wastewater**
 - gregorio.sandi@maryland.gov
- **Agriculture**
 - jason.keppler@maryland.gov
- **Statewide**
 - gregory.busch@maryland.gov
- **General**
 - kathy.stecker@maryland.gov