Accounting for Growth

Concepts & Priorities for Maryland's Phase III WIP

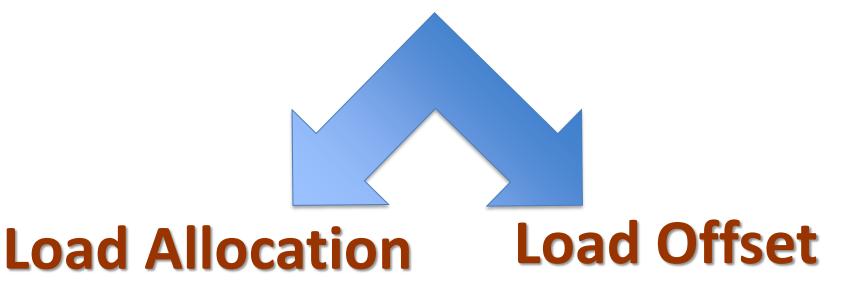
- Policy development
- Role of AfG Objectives
- Understanding reallocation
- Understanding Policy options
- Next steps

Background

- Bay TMDL: Allocations were set for states
 - State (Bay Cabinet) divided allocation among sectors
 - We must reduce existing loads to meet allocations
 - We must maintain the load cap in perpetuity
- Allocations for Growth
 - Allocation for wastewater: Built-in growth capacity
 - No allocation for new loads in the other sectors
 - Main focus of AfG Policy development is on
 - Stormwater loads from new development, and
 - OSDS loads from new development;
 - But AfG Policy is required for all sectors

Basic AfG Premise

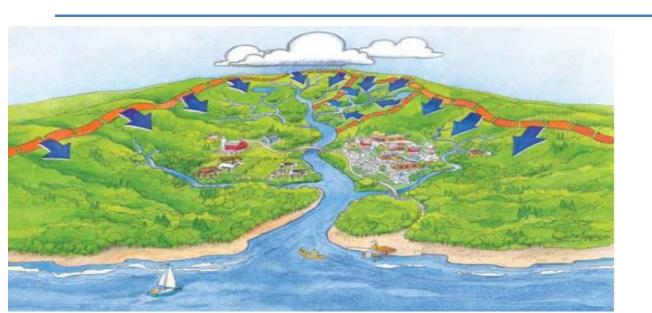
New or increased load, all sectors



BACKGROUND/ FOCUS FOR PHASE III

Phase I & II WIPs, 2013 AfG Work Group

Align Phase III AfG Policy w existing policies/ programs
Answer Load Allocation/ Offset Questions
Use AfG Objectives to develop/evaluate policy options



AfG Objectives

- 1. Allocate loads equitably across sectors
- 2. Require offsets for new or increased loads
- 3. Incorporate a margin of safety
- 4. Align with existing policies to minimize loads
- 5. Be compatible with other public objectives
- 6. Empower local government
- 7. Simple, practical, transparent and enforceable
- 8. Integrate with Trading Program

Objective 1: Allocate future loads consistently and equitably across source sectors

What load (if any) will be reallocated for new development?



- 2. Where would a "reallocation pool" come from?
- 3. How else must the pool be used?
- 4. How big is the pool, & how much is available for what?

1. How Loads Are Allocated

Limits of Technology & Programs

- Best technology available
- Feasible reach/ effects of programs

Necessary Extent of Implementation

- Equal % of reducible loads
- Closer = More
- EPA targets for major basins
- Increase %'s to hit targets



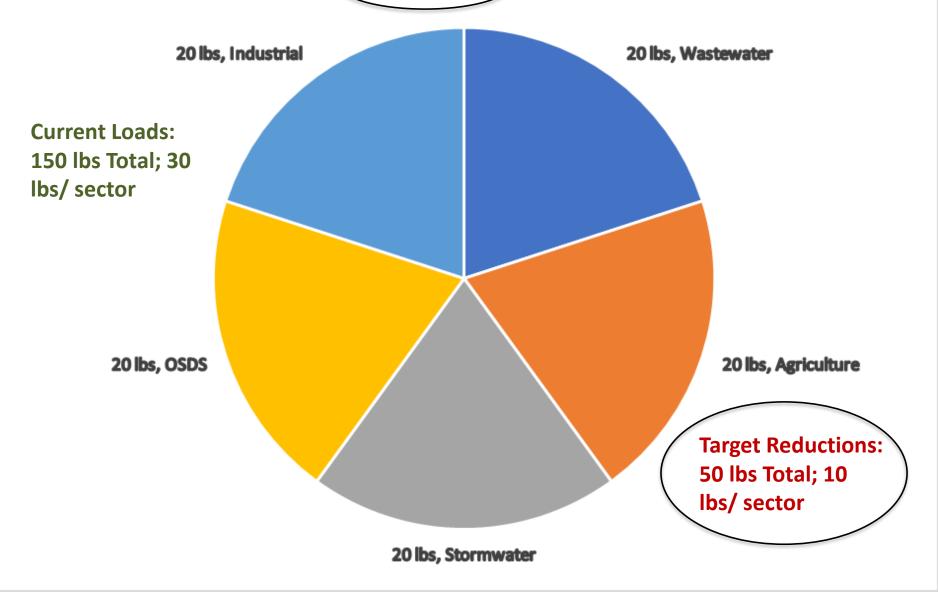
Target Loads
Target Reductions

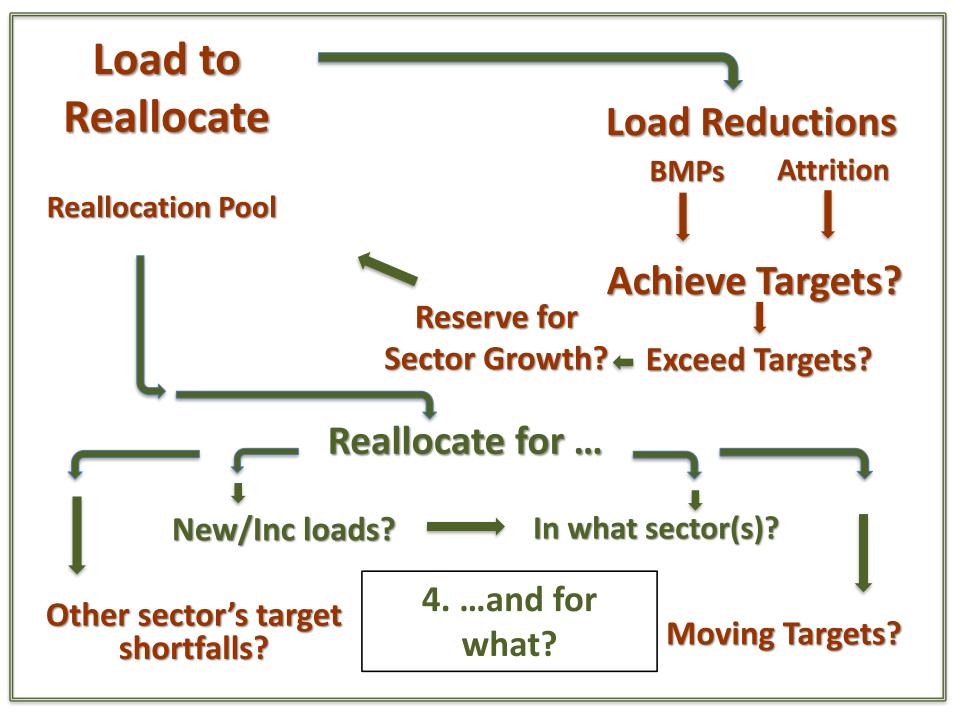


Overall; by Sector; & by Basin

2025 Load is Already Allocated:

Total Target Load: 100 Lbs





Reallocation Considerations Summary

Load Reduction:

- BMPs
- Attrition

Used/ reserved/ reallocated for...



From any source sector

... & site by site

Reallocation Process: Estimates

- 1. BMP implementation/ reductions by sector
- 2. Attrition/reductions/growth by sector
- 3. Reductions, by sector & overall, vs. targets
- 4. Minus:
 - Shortfalls toward target loads, by sector & overall
 - Loads reserved for growth by sector
 - Reallocation for moving targets

Remainder = potential reallocation pool

Two Accounting for Growth Policy Options

- 1. OSDS & Forest Conversion Option
- 2. Per Capita Loading Option

OSDS/ Forest Conversion Option

OSDS - No Allocation: Tier IV? Tier III? 1,000 feet of streams? Everywhere?

Forest Conversion – Forest load allocation: Offset Stormwater loads in excess of forest

Everywhere Else – Post Dev load allocation: no offsets required

Will the reallocation pool cover this option?

Per Capita Loading (PCL) Option

- High, Low, & Moderate Per Capita Loading Areas
- Mapped by county, municipality

Reallocation: Lowest per capita loading rates, X 2025 projected growth (per Jurisdiction)

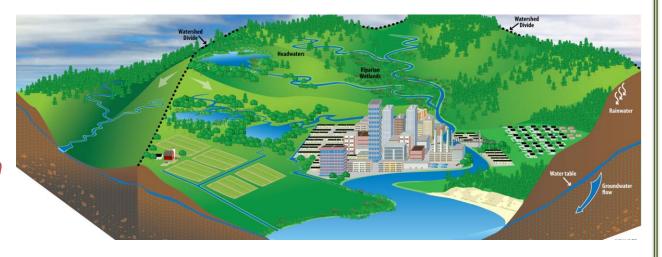
Jurisdiction Choices - Allocations vs. Offsets

- Allocate to Low per capita areas only?
- To all areas?
- Other options? Evaluate vs. AfG Objectives

Will the reallocation pool cover this option?

PCL Option: Align with Existing Policies to Minimize Loads

Existing local & state policies & programs that minimize per capita pollution footprint of development.



- <u>Land Use</u>: Comp Plans, Zoning, State Planning Policy, sewer service, Critical Areas Program, farm and forest conservation programs etc.
- Technology: ESD to the MEP, ENR

How?

Land Use: minimize per capita physical footprint

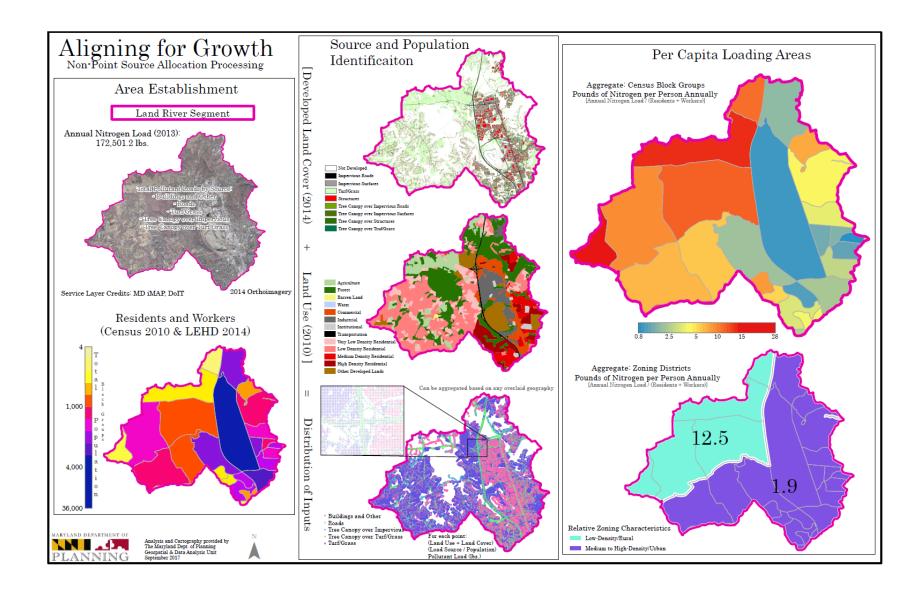
Smaller physical footprint

Smaller pollution footprint

Technology: Minimize loads through BMPs

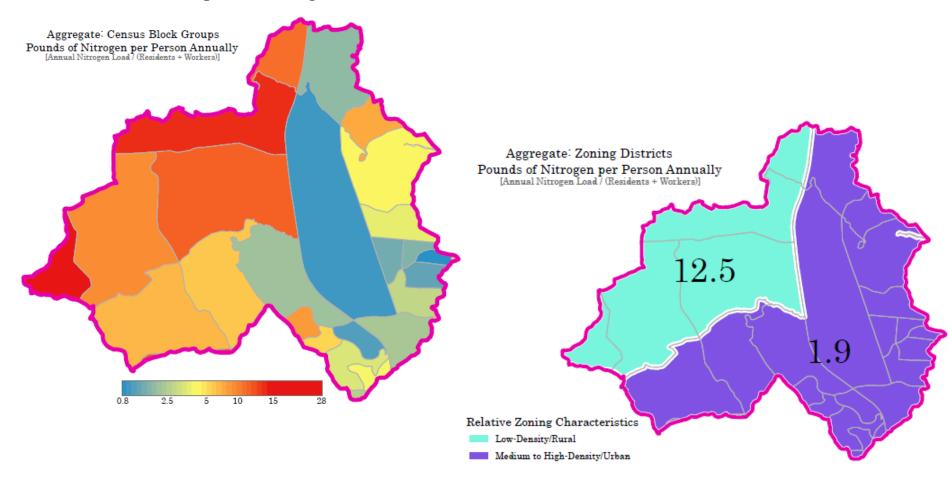
- ESD everywhere
- ENR in targeted growth areas

Combination – lower & higher per capita footprints



Aligning for Growth Non-Point Source Allocation Processing

Per Capita Loading Areas



Evaluation of Accounting for Growth Policy Options					
Policy	Equitable Allocation Across Sectors ¹	Align with Existing	Compatible with	Empower Local	Simple,
Option		Policies ²	Public Objectives ³	Governments ⁴	Practical, etc. ⁵
OSDS	1) Requires Limits – Y/N/TBD				
& Forest Conversion	2) Requires Extent – Y/N/TBD	Well/ Part/ Least	Y/N/TBD	Y/N/TBD	Y/N/TBD
Option	3) Equitable Demands –Y/N/TBD				
Phase I & II	1) Requires Limits – Y/N/TBD				
Per Capita Loading	2) Requires Extent – Y/N/TBD	Well/ Part/ Least	Y/N/TBD	Y/N/TBD	Y/N/TBD
Option	3) Equitable Demands –Y/N/TBD				

¹ Consider 1) Does the option require the *Limits of Technology and Management* per allocations to other source sectors? Y = Yes, equivalent or greater limits, N = No, substantially lesser limits, TBD = relative limits not clear. 2) Does the option require the *Necessary Extent* of implementation similar to other sectors: Y = Yes, equivalent or greater extent, No, = substantially lesser extent, TBD = relative extent not clear. 3) Does the option impose *Equitable Demands* on OSDS & Stormwater growth sectors compared to other sectors, considering both *Limits & Extent*? Y = Yes, similar or equivalent demands, N = No or substantially lesser demands, and TBD = somewhat or not clear.

² Does the option take advantage of existing programs that already minimize loads, encourage growth where effects of those programs are greatest, and discourage growth where they are least effective? Well = likely to take effective advantage, Part = likely to take some advantage, Least = likely to take relatively little or no advantage.

 $^{^3}$ Does the option as much as possible support, complement, or at a minimum avoid undermining other important public policies and objectives that may be affected by AfG Policy? Y = Yes, for all policy objectives of concern identified, N = No, will significantly undermine one or more policy objectives, TBD = unclear.

⁴ Can the option give local governments a role in Policy implementation that provides the ability to use land use decisions and AfG Policy to mutually support the TMDL and their own land use plans and objectives? Y = Yes, the two policy arenas will be mutually supportive. N = No, AfG policy adds little or nothing to existing ability of land use policy to achieve goals or may compromise it. TBD = unclear.

⁵ Can the process to implement the policy be simple and streamlined enough to follow; create clear obligations and practicable means to meet them for affected parties; maximize flexibility for participants in the offset market; minimize complexity and costs to affected parties; and maximize accountability and transparency? Y = Yes, for all or most considerations, N = No, for many considerations, and TBD = unclear without more details

Next Steps: General

- 1. Feedback/Suggestions
- 2. Revisions/ develop both policy options
- 3. Supporting technical analysis
- 4. Evaluate policy options
- 5. Recommendation to Bay Cabinet on Policy Options