

PHASE III WIPS LOCAL GOVERNMENT INVOLVEMENT

WRTC Meeting
January 11, 2019



Metropolitan Washington
Council of Governments

Outline

- Overview
- Maryland – Kathy Stecker, MDE
- District of Columbia, Katherine Antos, DOEE
- Virginia, COG staff (pinch hitting for Norm Goulet)

Overall WIP III Schedule

- April 12, 2019 – States' draft Phase III WIPs due to EPA
- June 7, 2019 – Deadline for public comment on draft Phase III WIPs
- August 9, 2019 – Final Phase III WIPs due to EPA

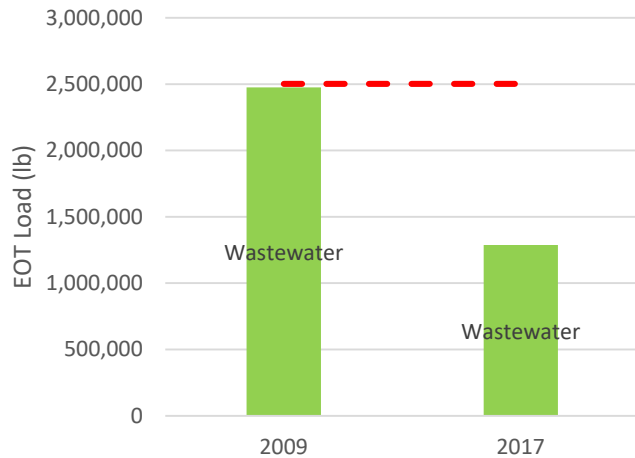
Potential Common Points for Region

- Nitrogen reduction is the biggest remaining challenge, but stormwater is not well suited for achieving N reductions
 - Stream health and sediment reductions are more compelling reasons for urban BMP implementation
- Region has considerable nutrient “surplus” from wastewater sector
 - Improves overall nutrient reduction effort by urban regions
 - Trading in time for regulatory compliance
- Need to consider long term beyond 2025
 - Wastewater surplus will diminish over time
 - Need for continued stormwater BMP implementation for reasons other than nutrient reduction

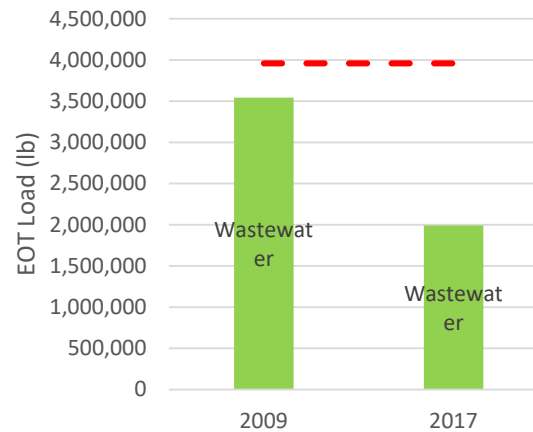


TN and TP Progress By Sector

VA - COG WWTP TN Progress

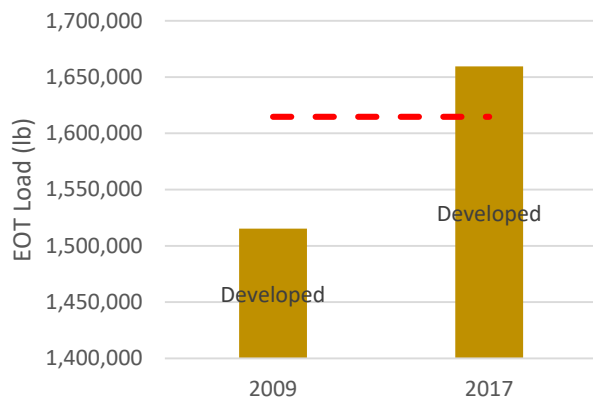


MD-COG WWTP TN Progress

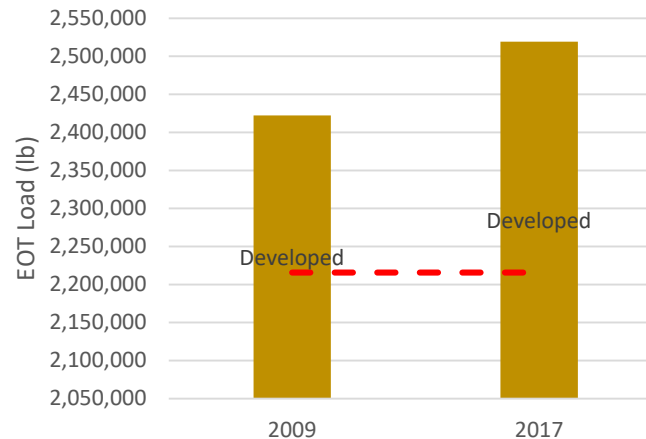


Considered separately, wastewater has met 2025 targets; stormwater has not

VA - COG Developed TN Progress

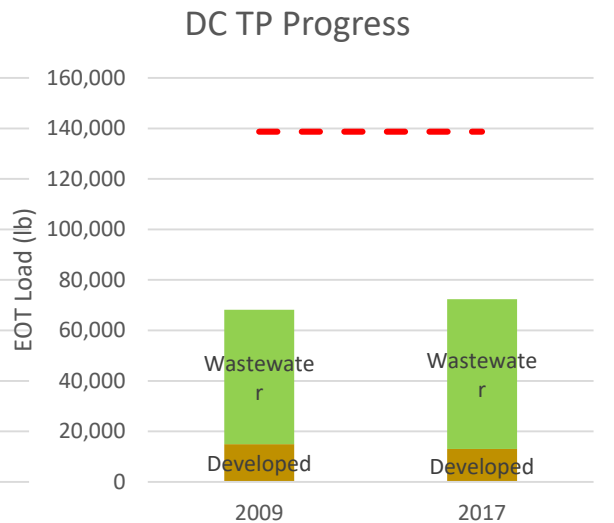
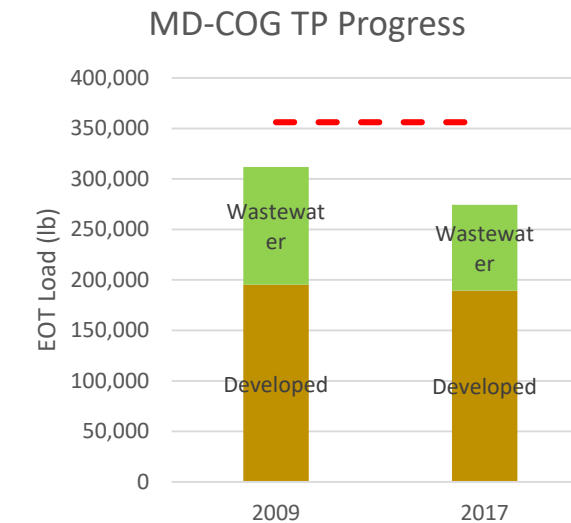
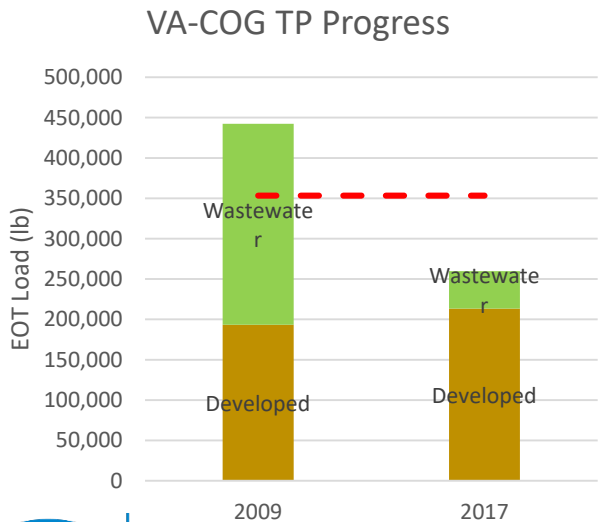
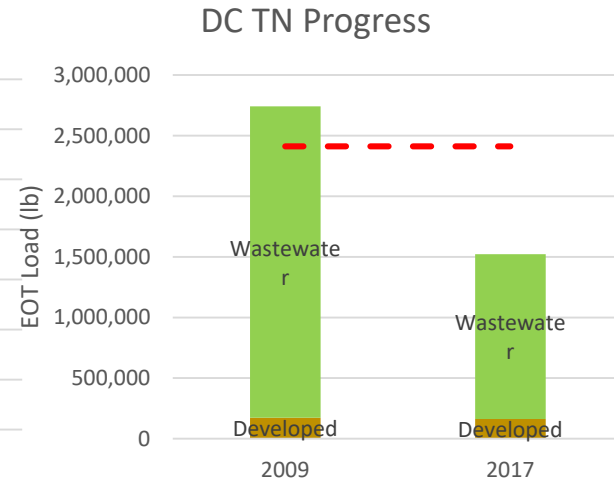
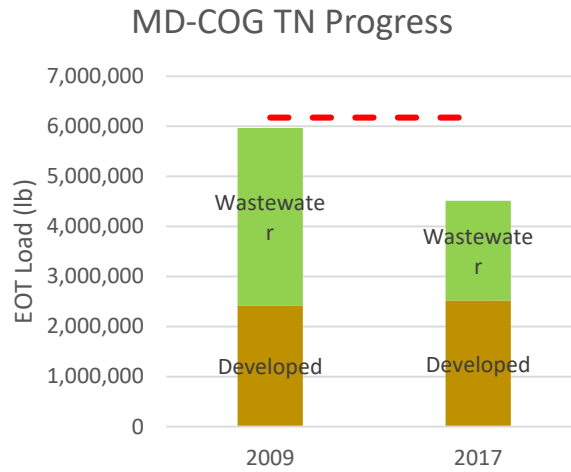
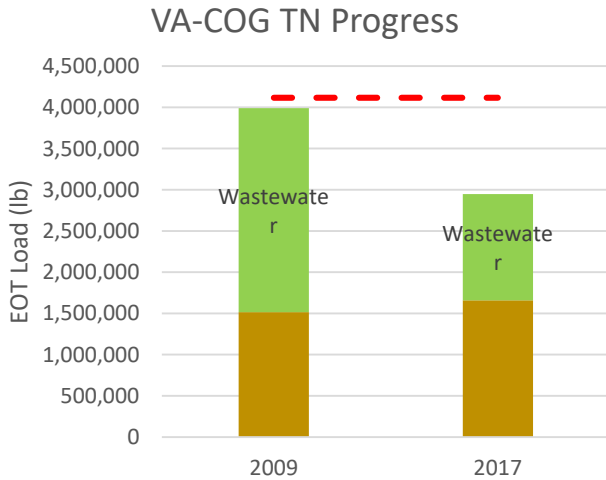


MD-COG Developed TN Progress



Note: CBP watershed model Version 6 EOT data downloaded from CAST.

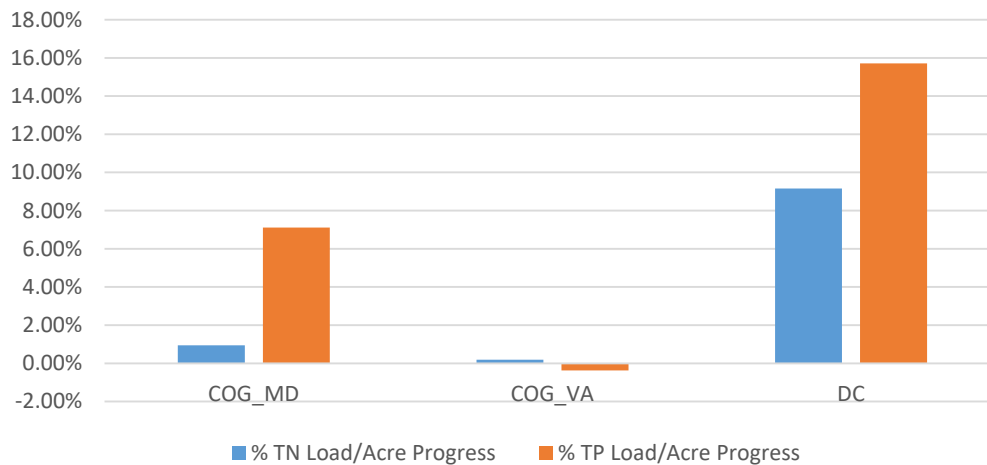
TN and TP Combined Progress



Stormwater BMPs' Impact on TN and TP

For developed sector, it's harder to make progress in reducing nitrogen (TN) than it is to make progress in reducing phosphorus (TP)

Percent Progress from Developed Sector BMPs

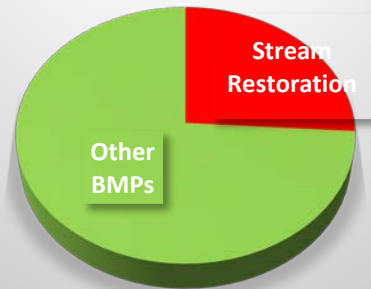


Percent progress computed as Δ 2009 Progress load/acre – 2017 load/acre (expressed as a percent of 2009 load/acre)

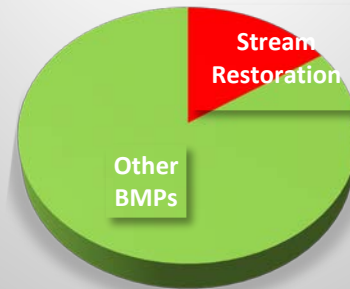
Note: CBP watershed model Version 6 EOS data downloaded from CAST. Data does not include any reductions from stream restoration

Stream Restoration as % of Urban Progress

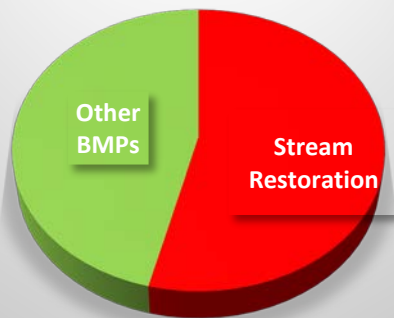
MD-COG 2017 TN



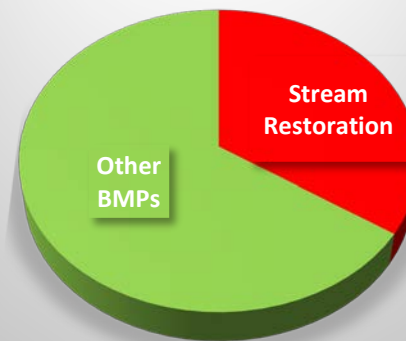
VA-COG 2017 TN



MD-COG 2017 TP



VA-COG 2017 TP



Stream restoration projects account for greater percentage of overall urban sector reductions for TP than for TN

Note: CBP watershed model Version 6 EOS data downloaded from CAST.

NVRC Plan to Meet Planning Target for Unregulated Developed Sector

Phase 3 WIP
Local
Planning
Area for
Northern
Virginia



Northern Virginia Regional Commission PDC 8

Slide courtesy of
Norm Goulet, NVRC



NVRC Plan

- Importance of unregulated developed land use sector in Virginia; counts as load allocation (LA) rather than wasteload allocation (WLA)
 - LA acres =
 - 71 % of total developed land in Virginia
 - 27 % of total developed land in Maryland
- COG region – VA change in land use from 2009 to 2017
 - Unregulated development (LA) up 14%
 - Regulated development (WLA) up 7%

NVRC Plan: Content

- NVRC compared 2017 actual BMPs (from CAST) to the projected BMPs from the Virginia WIP II
 - A lot of discrepancies (e.g., state projecting a lot more urban nutrient management than is actually occurring)
- Most of the BMPs in unregulated development derive from the requirements of new or redevelopment stormwater regulations
- NVRC built model input deck by extrapolating 2009-2017 BMP implementation through 2025
- Resulting plan would come close to meeting what was the WIP II target for the NVRC area
 - Within about 3,000 pounds of the P goal and 93,000 pounds of the N goal.

NVRC Plan: Key Recommendations

- Need for better BMP reporting in unregulated areas – state financial incentives
- Expand funding opportunities for BMP implementation in unregulated areas (VCAP and other programs)
- Revise crediting potential for MS4 projects in unregulated areas
- Separate state lands from locality lands and provide a state local area planning goal
- Resolve reporting issues (especially Septics)
- See <https://www.novaregion.org/1398/Virginia-Chesapeake-Bay-Phase-III-WIP> for full list

VA WIP III Plan for Regulated Developed

- Based on continuation of 5% / 35% / 60% graduated achievement of nutrient reduction targets
- First permit cycle for Phase Is and Phase IIs – 5 percent
- Second Cycle - Phase II GP (2018 – 2023-5) – 35 percent
 - Arlington's Phase I permit (administratively continued - 6/18)
 - Prince William (12/19) Fairfax County (03/20)
- Beyond second permit cycle – 60 percent due (?)
- Keep same target numbers as in WIP II (?)

COG Next Steps

March 15: CBPC discussion of preliminary Phase III WIP Plans

- Could provide comments to states if needed

May 10: WRTC review of states' draft Phase III WIP plans

May 17: CBPC review of states' draft Phase III WIP plans

- Could provide official comment to EPA on states' draft Phase III WIP plans
- CBP comment deadline is June 7
- July 26: CBPC could weigh in before WIPs are finalized on Aug. 9