CHESAPEAKE BAY AND WATER RESOURCES POLICY COMMITTEE

Watershed Implementation Plans Potential COG Comments

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CBPC Members May 17, 2019



Outline

- WIP status and schedule
- MD WIP details
- VA WIP details
- WRTC recommendations for comment

Schedule

- Draft WIP Posted: VA April 5, 2019; MD April 12, 2019
- Public Comment: April 12 June 7, 2019
- Final WIP Posted: August 9, 2019

MDE web page

 https://mde.maryland.gov/programs/Water/TMDL/TMDLImplementation/ n/Pages/Phase3WIP.aspx

DEQ web page

https://www.deq.virginia.gov/Programs/Water/ChesapeakeBay/ChesapeakeBayTMDL/PhaseIIIWatershedImplementationPlanning.aspx



N Load Reductions by Source Sector

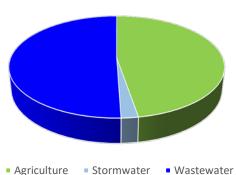
Table 4: Nitrogen: Statewide Current & Phase III WIP Loads by Source Sector.

Source Sector: Nitrogen	2017 Progress (MIbs TN/yr)	Phase III WIP * (M lbs TN/yr)	Change in Load (M lbs TN/yr Percent)
Agriculture	22.4	18.0	-4.4 -20%
Natural **	8.1	8.1	0.0 0%
Septic	3.1	3.1	0.0 1%
Stormwater***	9.4	9.2	-0.2 -2%
Wastewater	11.3	6.6	-4.7 -41%
Total	54.2	45.0	-9.2 -17%

MDE numbers based on 2017 Progress scenario and 2025 projected loads

Source: MDF

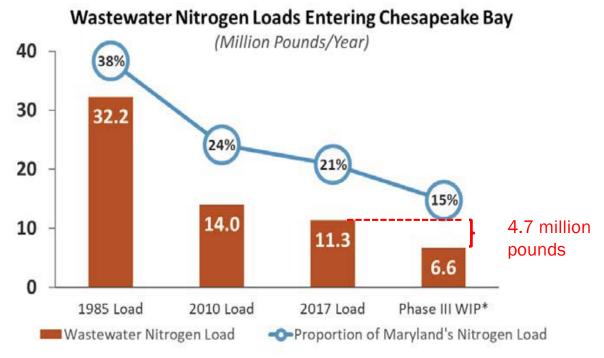
TN Reductions (M Lb/Yr)



 Stormwater sector would account for only 2 percent (200,000 pounds) of the state's total nitrogen reduction between now and 2025

Wastewater Strategy - Nitrogen

- Complete nitrogen upgrades for last 8 significant "major" POTWs
 - Patapsco (Baltimore region) by far the largest; includes Frederick City POTW in COG region
- Reductions in 2025
 will be below the
 cumulative cap loads
 for POTWs (average
 TN concentration of
 3.25 mg/l)
- This excess reduction will eventually be needed for growth



Source: MDE



P Load Reductions by Source Sector

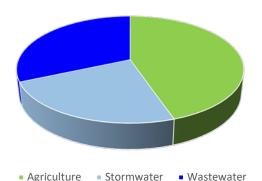
Table 5: Phosphorus: Statewide Current and Phase III WIP Loads by Source Sector.

Source Sector: Phosphorus	2017 Progress (M lbs TP/yr)	Phase III WIP * (M lbs TP/yr)	Change in Load (M lbs TP /yr Percent)
Agriculture	0.65	0.47	-0.17 -27%
Natural	1.83	1.83	-0.00 I 0%
Stormwater***	0.67	0.58	-0.09 -13%
Wastewater	0.51	0.39	-0.12 -24%
Total	3.66	3.28	-0.39 -11%

MDE numbers based on 2017 Progress scenario and 2025 projected loads

Source: MDE

TP Reductions %



Stormwater sector would account for 23 % of the total P reductions

Source: MDE



Virginia Draft WIP III Document

DEQ Planning at Major Basin Scale

- Potomac Shenandoah Basin
 - 26 Counties/Cities
 - 6 Planning District Commissions
 - 12 Soil and Water Conservation Districts

Including reductions for climate change adds about 35 % to level of effort for nitrogen













Reductions by Source Sector

VA WIP sets separate targets for:

- Agriculture lower level of effort than in Phase II WIP
- Developed under MS4 permit sticks to WIP II strategy for three full permit cycles to achieve reductions
- Unregulated Developed NVRC created plan, but implementation will depend on success of new state programs and more state funding
- Wastewater loads in basin are below cap levels by about 2.34 million pounds N and 140,000 pounds P
- Septic some new state initiatives
- Natural









Some General WIP Conclusions

- Proposed WIP reductions from nonregulated developed land greatly exceed historical pace of BMP implementation
- Additional state funding for urban BMP implementation is not detailed in the WIP; future state funding increases are dependent on approval by state legislature
- WIP makes problematic assumptions about implementation of specific BMP implementation, such as:
 - a significant increase in urban nutrient management plans
 - BMPs that many local governments have little experience in addressing (e.g. shoreline management)
 - major expansion in tree planting and new forestry practices for which state and local staff resources are lacking





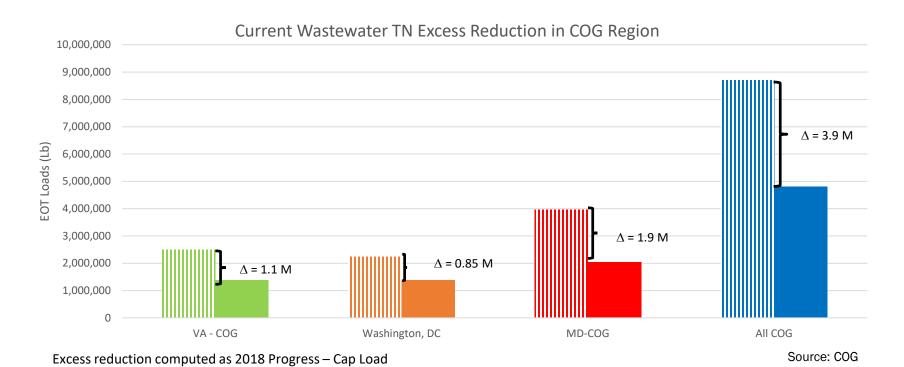






Potential COG Comments – MD and VA WIPs

- Region has extensive excess reduction from wastewater sources through 2025
- States likely to use to offset less progress by other sectors
- Need to emphasize that excess needed for future growth





Potential COG Comments – WRTC recommendations

- COG comment through letter to Bay Program PSC Chair
 - Would apply to Maryland and Virginia WIPs, but not District's WIP

General comments

- Wastewater capacity
- Stormwater capacity
- Avoiding failure
- Climate change
- Conowingo WIP
- Planning for growth



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