



## DRAFT Phase III Watershed Implementation Plans At-A-Glance

	Pennsylvania		Maryland		Virginia	
2017 Delivered Loads	107.3 M lbs. N	3.8 M lbs. P	54.2 M lbs. N	3.7 M lbs. P	58.1 M lbs. N	6.2 M lbs. P
2025 TMDL Target	73.2 M lbs. N	3.0 M lbs. P	45.8 M lbs. N	3.7 M lbs. P	55.7 M lbs. N	6.2 M lbs. P
Reduction Needed to Achieve Target	34.1 M lbs. N	0.8 M lbs. P	8.4 M lbs. N	0.0 M lbs. P	4.1 M lbs. N <sup>1</sup>	0.2 M lbs. P <sup>1</sup>
Does WIP Achieve Target?	No <sup>2</sup>		Yes		Yes	
Estimated Cost/Gap	Cost: \$486 M annually (includes all funding sources)		Cost: \$273 M annually (state) \$267 M annually (local gov)		Costs will be determined by statutorily required, stakeholder-driven annual needs assessments for wastewater, stormwater and agriculture.	
	Gap: \$257 M annually (includes \$14 M needed for an additional 80 internal and 109 external staff)		Estimates indicate that enough funds are in place to meet requirements. Costs and gaps will be evaluated annually and provided to the Maryland General Assembly.			

<sup>1</sup> Reductions from Virginia's WIP include 1.7 million lbs. N and 0.2 million lbs. P for climate change.

<sup>2</sup> Pennsylvania's WIP details statewide initiatives and four county-level plans to reduce 22.7 M lbs. of N and 0.8 M lbs. of P. After completion of remaining 39 county plans, and improved tracking of implementation, 100% of both N and P is expected to be achieved.

	Pennsylvania	Maryland	Virginia
Priority Source Sector Reliance	1. Agriculture 2. Forestry	1. Wastewater 2. Agriculture	1. Wastewater 2. Agriculture
Priority BMPs	<ul style="list-style-type: none"> <li>• Agricultural Compliance <ul style="list-style-type: none"> <li>○ Ag E&amp;S Plans</li> <li>○ MMPs/NMPs</li> <li>○ barnyard runoff controls</li> </ul> </li> <li>• Soil Health <ul style="list-style-type: none"> <li>○ Conservation tillage</li> <li>○ No-till</li> <li>○ Non-harvested cover crops</li> </ul> </li> <li>• Grass Buffers</li> <li>• Forest Buffers</li> </ul> <p><i>These 4 suites of practices will achieve 45% of the N and 75% of the P.</i></p>	<ul style="list-style-type: none"> <li>• Wastewater <ul style="list-style-type: none"> <li>○ Complete BRF ENR</li> <li>○ ENR for non-significant</li> <li>○ O&amp;M grants</li> <li>○ Sewer projects to address SSOs and CSOs</li> </ul> </li> <li>• Agricultural <ul style="list-style-type: none"> <li>○ Cover crops</li> <li>○ Manure transport</li> <li>○ Verification</li> <li>○ New BMPs</li> <li>○ Soil health</li> </ul> </li> <li>• Urban <ul style="list-style-type: none"> <li>○ Phase 1 &amp; 2 MS4</li> <li>○ New MS4 requirements</li> <li>○ Non-MS4</li> </ul> </li> <li>• Septics <ul style="list-style-type: none"> <li>○ BAT upgrades</li> <li>○ WWTP connections</li> </ul> </li> <li>• Natural Lands <ul style="list-style-type: none"> <li>○ Upland tree planting</li> <li>○ Stream restoration</li> <li>○ Oyster aquaculture</li> </ul> </li> <li>• Air <ul style="list-style-type: none"> <li>○ Greenhouse gas reduction strategy</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Wastewater upgrades to achieve 4 mg/l of TN and 0.3 mg/l of TP statewide</li> <li>• Agricultural and Urban Nutrient Management</li> <li>• Cover Crops</li> <li>• Forestry Practices <ul style="list-style-type: none"> <li>○ Buffers</li> <li>○ Tree Canopy</li> <li>○ Forest Retention</li> </ul> </li> <li>• Livestock Stream Exclusion and Pasture Management</li> <li>• Shoreline Management</li> <li>• Stormwater Management BMPs</li> </ul>

	Pennsylvania	Maryland	Virginia
Legislative Opportunities	<ul style="list-style-type: none"> <li>• New Dedicated Funding Source(s) <ul style="list-style-type: none"> <li>○ Water Use Fee</li> <li>○ Bottled Water Tax</li> <li>○ RestorePA</li> <li>○ Keystone Tree Fund</li> <li>○ Clean Water License Plate</li> </ul> </li> <li>• Remove prohibition of stream fencing requirements in Clean Streams Law</li> <li>• Nutrient Procurement Program</li> <li>• Revise local procurement limits to facilitate municipal P3s</li> <li>• Revise Right-to-Know Law to protect farmer information</li> <li>• Fertilizer Bill</li> <li>• Other Budget Items <ul style="list-style-type: none"> <li>○ Restore Act 167 Funding</li> <li>○ PA Farm Bill <ul style="list-style-type: none"> <li>▪ REAP to \$13 M</li> <li>▪ \$3 M for BMPs, TA</li> </ul> </li> </ul> </li> </ul>	<p>MD has statutes in place to support restoration funding and pollution reduction. MD's Phase 3 WIP evaluation indicates no new legislative initiatives are needed at this time. If through the annual report to the General Assembly it is determined additional legislative initiatives are needed, they will be included in the 2-year milestone process.</p>	<ul style="list-style-type: none"> <li>• Workgroup on expansion of the Chesapeake Bay Preservation Act west of Interstate 95</li> <li>• Agriculture nutrient management legislation with trigger</li> <li>• Livestock stream exclusion deadline</li> <li>• Increased tax credits for agricultural BMPs and equipment</li> <li>• Funding for: <ul style="list-style-type: none"> <li>○ Agricultural BMPs</li> <li>○ Local stormwater projects</li> <li>○ Wastewater upgrades</li> <li>○ Homeowner, small business and church projects</li> <li>○ Urban forestry</li> </ul> </li> </ul>