Pennsylvania's Phase 3 Watershed Implementation Plan

May 31, 2019

Healthy Waters, Healthy Communities

Tom Wolf, Governor

Patrick McDonnell, Secretary
Phase 3 WIP Public Comment Period

- Website:
  
  DEP Chesapeake Bay Program Website:
  http://www.dep.pa.gov/ChesapeakeBay

  Phase 3 WIP Website:
  www.dep.pa.gov/chesapeakebay/phase3

- eComment:
  (https://www.ahs.dep.pa.gov/eComment)

- Webinars, Focus Groups, Meetings
Pennsylvania is working with neighboring states to clean up our shared local waterways that run to the Chesapeake Bay.

This effort is the Phase 3 Watershed Implementation Plan (Phase 3 WIP).

*The path to success starts locally.*
What is the Phase 3 WIP?

It’s an opportunity to reduce water pollution...

...improve our quality of life...

...address flooding problems...

... and, get credit for the work already underway.
Bay Goals and Local Waters Goals

Reductions necessary to PA’s Local Waterways and the Chesapeake Bay

What’s entering PA Local Waterways from PA Land:
- 51.06 M lbs of N
- 2.02 M lbs of P

What’s making it to Chesapeake Bay from PA Land:
- 34.13 M lbs of N
- 0.756 M lbs of P
Who is involved?

Steering Committee
- Secretaries of DEP, DCNR and PDA
- SRBC and ICPRB
- State Conservation Commission – Conservation Districts
- Pennvest
- Chesapeake Bay Commission
- WIP Workgroup Co-Chairs

Workgroups
- Agriculture
- Stormwater
- Forestry
- Wastewater
- Local Area Goals
- Funding
- Communications and Local Engagement

WIP3 Planning and Implementation

County Governments
- 43 Counties in Goal Area of PA’s Chesapeake Bay Watershed

Other Stakeholders
- Municipal Governments
- Regional Organizations
- Environmental Non-profits
- Business and Industry
- Agricultural Groups
- Planning Organizations

Over 1,100 people total
Working Together to Clean Up Our Local Waters

1. Communications
2. Funding and Resources
3. Enhancing Technical Capacity
4. Tracking and Reporting
5. Compliance
Executive Summary
1 -- Introduction
2 -- State Actions – Programmatic and Numeric Commitments
3 -- Countywide Actions
4 -- Communication and Engagement Strategy
5 -- Existing and Needed Resources
6 -- Federal Role
7 -- Milestones and Progress Reporting
8 -- Accounting for Growth
9 -- Climate Change and Climate Resiliency
10 -- Conclusion
Integrated Documents

- Countywide Action Plan Planning Guide & County Toolboxes
- Countywide Action Plans
  - Lancaster, York, Adams and Franklin
- Federal Facility Action Plans
  - Department of Defense
- Milestone and Progress Reporting Template
  - State Actions
- Draft BMP Verification Plan
- County and Workgroup Recommendations
Programmatic Commitments -- Highlights

- Legislative, Regulatory, Programmatic Enhancements
  - Options for a Dedicated Funding Source
  - Fertilizer Bill, Revisions to Clean Streams Law
  - One-Stop-Shop for Technical Assistance, Block Grants
- Under-reported Practices – Tracking and Verification
  - Data Management System
  - BMP Verification
- Programs Not Currently Credited
## State Priority Initiatives, Numeric Commitments, Cost and Reductions

<table>
<thead>
<tr>
<th>Statewide Workgroup Recommendation</th>
<th>Nitrogen Reduction (to Pennsylvania Streams)</th>
<th>Phosphorus Reduction (to Pennsylvania Streams)</th>
<th>Estimated Annual Cost for Practice Implementation¹²</th>
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</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>28,572,000</td>
<td>1,790,000</td>
<td>$313,140,000</td>
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<tr>
<td>Agriculture Compliance</td>
<td>7,381,000</td>
<td>251,000</td>
<td>$33,105,000</td>
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<tr>
<td>Soil Health</td>
<td>7,337,000</td>
<td>298,000</td>
<td>$32,980,000</td>
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<tr>
<td>Expanded Nutrient Management</td>
<td>755,000</td>
<td>34,000</td>
<td>$20,853,000</td>
</tr>
<tr>
<td>Manure Storage Facilities</td>
<td>7,167,000</td>
<td>300,000</td>
<td>$214,042,000</td>
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<tr>
<td>Precision Feeding</td>
<td>604,000</td>
<td>61,000</td>
<td>($1,687,000)</td>
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<tr>
<td>Integrated Systems for Elimination of Excess Manure</td>
<td>1,230,000</td>
<td>101,000</td>
<td>$4,666,000</td>
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<tr>
<td><strong>Grassed Riparian Buffers</strong></td>
<td><strong>4,098,000</strong></td>
<td><strong>747,000</strong></td>
<td><strong>$9,183,000</strong></td>
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<tr>
<td><strong>Stormwater¹</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>296,000</td>
<td>39,250</td>
<td>$78,552,000</td>
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<tr>
<td>Meet Current MS4 Permit Requirements</td>
<td>179,000</td>
<td>34,000</td>
<td>$74,033,000</td>
</tr>
<tr>
<td>New Riparian Forest Buffers</td>
<td>7,000</td>
<td>1,000</td>
<td>$68,000</td>
</tr>
<tr>
<td>Residential Pools and Car Washing</td>
<td>3,000</td>
<td>150</td>
<td>$898,000</td>
</tr>
<tr>
<td>Industrial Stormwater</td>
<td>2,000</td>
<td>100</td>
<td>$3,553,000</td>
</tr>
<tr>
<td>Fertilizer Legislation</td>
<td>105,000</td>
<td>4,000</td>
<td>TBD</td>
</tr>
<tr>
<td>Recommendations for the 2023 MS4 Permit¹</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td><strong>Forestry</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>7,681,000</td>
<td>1,029,000</td>
<td>$67,701,000</td>
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<tr>
<td>Forested Riparian Buffers</td>
<td>7,445,000</td>
<td>993,000</td>
<td>$41,439,000</td>
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<tr>
<td>Tree Canopy</td>
<td>180</td>
<td>10</td>
<td>$5,400</td>
</tr>
<tr>
<td>Woods and Pollinator Habitat</td>
<td>86,000</td>
<td>5,300</td>
<td>$1,046,000</td>
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<tr>
<td>Forest, Farm, and Natural Areas Conservation</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Stream and Wetland Restoration</td>
<td>147,000</td>
<td>29,000</td>
<td>$27,303,000</td>
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<tr>
<td><strong>Total State Priority Initiatives (to Pennsylvania Streams)</strong></td>
<td><strong>33,239,000</strong></td>
<td><strong>2,123,000</strong></td>
<td><strong>$459,393,000</strong></td>
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</table>
Pennsylvania's Nitrogen Reductions to the Chesapeake Bay

- 2025 Planning Targets: 34.13
- State Priority Initiatives: 22.37
- State Priority Initiatives and CAPS: 22.57
- Conversion of Excess P to N Reductions: 0.16
- Total Reductions with Additional P and CAPS: 22.72

Reductions Represent EOT Loads
Total Reduction Results from Priority Initiatives

Pennsylvania's Phosphorus Reductions to the Chesapeake Bay

<table>
<thead>
<tr>
<th>Description</th>
<th>Lbs of Phosphorus Reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>2025 Planning Targets</td>
<td>.756</td>
</tr>
<tr>
<td>State Priority Initiatives</td>
<td>1,090,000</td>
</tr>
<tr>
<td>State Priority Initiatives and CAPS</td>
<td>109%</td>
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</table>

Reductions Represent EOT Loads
This bar chart shows how the State Priority Initiatives or Actions merge with the Countywide Action Plans.

The purple bar represents the nitrogen reductions since 1985. The green bar represents the State Priority Initiatives numeric commitments.

The blue bar represents a completed Countywide Action Plan.

The red bar represents the remaining gap between the Countywide Action Plan and the 2025 Chesapeake Bay goal.

NOTE: Lancaster County’s bar has been cut off due to scale. Their Countywide Action Plan has reduced 80%.
## Phased Plan Implementation

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>Phase 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tier 2 - Second 25% of Reductions</strong></td>
<td><strong>Tier 3 - Third 25% of Reductions</strong></td>
</tr>
<tr>
<td>Franklin -- Completed</td>
<td>Adams -- Completed</td>
</tr>
<tr>
<td>Lebanon</td>
<td>Northumberland</td>
</tr>
<tr>
<td>Cumberland</td>
<td>Perry</td>
</tr>
<tr>
<td>Centre</td>
<td>Snyder</td>
</tr>
<tr>
<td>Bedford</td>
<td>Huntingdon</td>
</tr>
<tr>
<td>Columbia</td>
<td>Susquehanna</td>
</tr>
<tr>
<td>Mifflin</td>
<td>Clearfield</td>
</tr>
<tr>
<td>Lycoming</td>
<td></td>
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</tbody>
</table>

**NOTE:** Plans for the Tier 1 Counties, Lancaster and York, are also Completed.
Phased Plan Implementation

Phase 1 (Begins Summer 2019 and lasts 6 to 8 months)

- Efforts in this phase are focused on the eight Tier 1 & 2 counties that make up 54% of PA’s nutrient load.
- Actions include:
  - Assist Pilot Counties with transition from planning to Countywide Action Plan implementation.
  - Work with remaining Tier 2 counties to develop and implement Countywide Action Plans.
  - Begin outreach to Tier 3 and 4 counties.

Phase 2 (Begins February 2020 and lasts 6 to 8 months)

- Efforts in this phase are focused on the thirty-five Tier 3 & 4 counties that make up 46% of PA’s nutrient load.
- Actions include:
  - Continue to assist Pilot and Tier 2 counties with Countywide Action Plan implementation.
  - Break Tier 3 and 4 counties into regional groupings based on existing partnerships.
  - Work with regional groups to help Tier 3 and 4 counties to develop and implement Countywide Action Plans.
How Does a County Prepare Its Action Plan?

Pennsylvania Countywide Pilot Planning Process
Phase III WIP

Convene Countywide Action Team Members
Identify Water Quality and Other Goals
Identify Local Resources
Select and Report Actions
Implement Actions and Continue to Report Actions
How Does a County Prepare Its Action Plan?

- DEP Support Team
  - DEP Staff Person from Chesapeake Bay Office (Internal Coordinator)
  - DEP Regional Office
- External Coordinator (County Planning Team Lead)
- Technical Coordinator (Technical Support to Counties)
Community Clean Water Planning Guide

- Standardized introduction to and overview of PA’s Phase 3 WIP planning process
- Clearly defined framework for process, directions
- Timeline and expectations
- Real world examples from pilot counties

Community Clean Water Technical Toolbox

- Customized toolbox populated with county-specific data
- Simplified technical information provided
- Provides clarity on in-stream monitoring
- Incorporates the state WIP workgroup recommendations and state initiatives
Next Steps for the Phase 3 WIP

<table>
<thead>
<tr>
<th>Phase 3 WIP</th>
<th>What’s Next</th>
<th>When</th>
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</thead>
</table>
| Finalize Draft for Public Comment | • Write first draft of the Phase 3 WIP  
• Revise Phase 3 WIP and Submit by April 12, 2019 | Submitted April 12, 2019 |
| Public Comment              | • Invite public comment on Draft Phase 3 WIP                                | April 12 – June 7, 2019  |
| Finalize the Phase 3 WIP    | • Phase 3 WIP finalized and submitted                                       | August 9, 2019            |
| Implementing the Phase 3 WIP | • Phase 1 Countywide Action Plan development begins  
• Phase 2 begins            | July 2019  
                              |                           | Feb 2020                   |
Questions?
Contact Information:
Veronica Kasi
vbkasi@pa.gov
717-772-4053

Public Comment (April 12 through June 7, 2019)
eComment:(https://www.ahs.dep.pa.gov/eComment)

DEP Chesapeake Bay Program Website:
http://www.dep.pa.gov/ChesapeakeBay

Phase 3 WIP Website:
www.dep.pa.gov/chesapeakebay/phase3

Sign Up for Participation in Countywide Action Plan
RA-EPChesBay@pa.gov