



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Chesapeake Bay Program Office

Pennsylvania's Progress: Meeting Our Goal

Chesapeake Bay Commission
Pennsylvania Delegates
July 8, 2020

Tom Wolf, Governor

Patrick McDonnell, Secretary

Agenda

- Phase 3 WIP – Implementation Strategy
- Funding
- Chesapeake Bay Modeling Tools – Baseline Inputs and Assumptions
- Data Management and Reporting
- Action Items
- Conowingo WIP Update

Phase 3 WIP Implementation Strategy

Pennsylvania's Phase 3 WIP Implementation Strategy



Chesapeake Bay Office

Statewide Leadership, Coordination & Support

**Implementation
State Team & Action Leaders**



Local Action



Reporting



**Communication
& Engagement**



**Programmatic
Actions**



**Monitoring
& Data Management**



Communication & Engagement

- Healthy Watersheds, Healthy Communities story map
- Clean Water Academy – web-based training modules
- Chesapeake Bay Phase 3 WIP Website update
- Education & Outreach materials and training to support local outreach needs
- Phase 3 WIP monthly e-newsletter

Local Action

- Working with Tier 1 and Tier 2 County Coordinators on planning and implementation support, developing education and outreach materials and data and reporting tools
 - Additional information sharing and trainings through “Webinar Wednesdays”
 - Guest speakers, County updates
 - Closing the Deal, Social Skills for Social Media, Making the Connection
- DEP Regional Offices and CBO collaborating to provide outreach to Tier 3 and 4 counties

Programmatic Actions

- Permitting
 - SCRO holding weekly pre-app meetings with York and Lancaster Counties
 - Draft “Pennsylvanians’ Guide to Permitting Watershed Improvement Projects”
- Act 167 Planning – SOP and Training
- Ongoing support of Conservation Districts

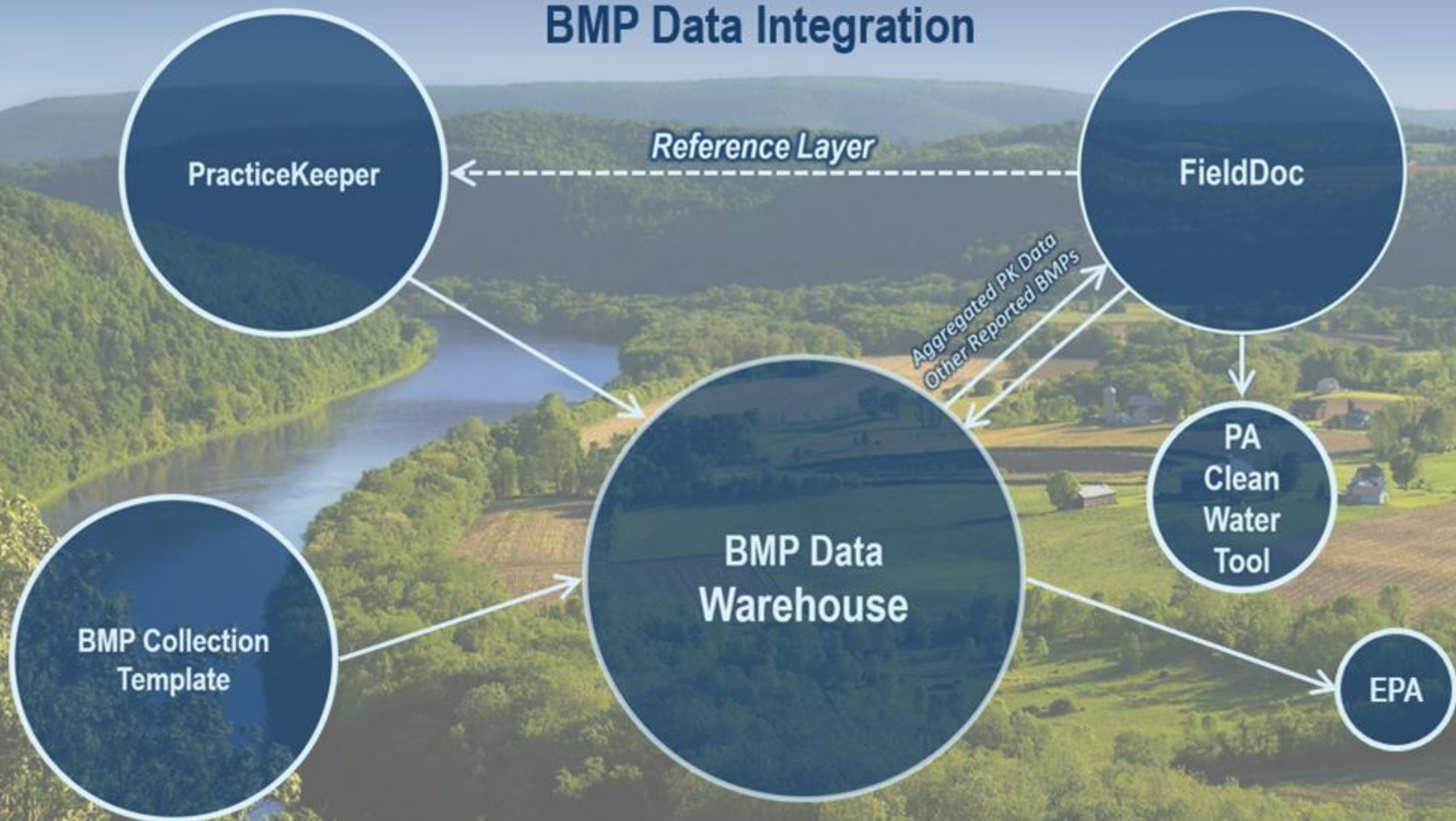
Funding

- EPA Chesapeake Bay Implementation Grant (CBIG2)
 - Extension provided through December 31, 2021
- EPA Chesapeake Bay Implementation Grant (CBIG3)
 - Ag BMP implementation in Tier 1 and Tier 2 counties
 - ~ \$3.8 million provided to DEP to grant as subaward to State Conservation Commission
- EPA Most Effective Basin Funding
 - Ag BMP implementation in Land-River Segments determined by EPA to be “most effective”
 - \$300,000 provided to DEP to grant as subaward(s) to conservation district(s)
 - ~ \$3.4 million will be provided to third parties through EPA’s RFA
- Chesapeake Bay Ag Inspection Program – Phase 2 Pilot
 - More than \$2.5 million in state funds will be provided to up to four conservation districts to provide cost-share to farms identified as being in non-compliance with their required Chapter 102 and Chapter 91 plans

Chesapeake Bay Modeling Tools

- Baseline Inputs and Assumptions
 - Models are used to predict future outcomes
 - Inputs include, but are not limited to: 5-year USDA Ag Census, Land Use/Land Cover Mapping, Water Quality Monitoring
 - Best Management Practices must be reported, or else there is no “credit” provided in the modeling tools

BMP Data Integration



Monitoring & Data Management

- Data Tools Review Team will be finalizing the review of FieldDoc in the coming weeks for use by the CAP Counties for tracking and reporting
- Developing additional enhancements and features for PracticeKeeper and Model My Watershed

Reporting

- Final 2020-2021 Programmatic and Numeric Milestones were submitted to EPA
- Working with PennDOT to report BMPs
- Working on acquiring credit for practices historically not counted or not accurately counted:
 - BWEW - Streams and Wetlands Restored through Compensatory Mitigation
 - BAMR - Acid Mine Drainage and Abandoned Mine Lands

2020-2021 Milestone Commitments

- 2-year Numeric and Programmatic Milestones
- Published to the CBO Website here:
 - [DEP](#) > [Businesses](#) > [Water](#) > [Pennsylvania's Chesapeake Bay Program Office](#) > Track Pennsylvania's Progress

2020-2021 Numeric Milestone Commitments

60% Reduction in Nitrogen	Best Management Practices
	Nutrient Management - Core Nitrogen
	Soil Conservation and Water Quality Plans
	Cover Crop - Rye, Normal, Drilled (Traditional)
	Cover Crop - Rye, Normal, Drilled (Traditional with Fall Nutrients)
	Tillage Management - Continuous High Residue Management (>60% Residue)
	Animal Waste Management Systems
	Grass Buffers
	Forest Buffers
	Forest Buffers with Streamside Exclusion Fencing
10-fold Increase in Implementation	Grass Buffers with Streamside Exclusion Fencing
	Prescribed Grazing
	Manure Incorporation/Injection
	Urban Stream Restoration
	Urban Nutrient Management
	Bioswales
	Grey Infrastructure - Illicit Discharge Detection and Elimination (IDDE)
Additional BMPs	Conservation Tillage (30%-60% residue)
	Wetland Restoration
	Non-urban Stream Restoration
	Land Conservation Policy

Actions Steps and Timeline

Present – July 2020

- Selection of entity(ies) for Center for Water Quality Excellence (Implementation)
- Draft Phosphorus Index revision for Nutrient Management (Programmatic)
- Ag Inspection Program – Phase 2 Pilot (Programmatic and Implementation)
- Conservation Excellence Grant – Pilot (Implementation)
- Conowingo WIP Draft Released for Public Comment (Programmatic and Implementation)
- Release of PA Clean Water Tool (Data Management and Reporting)
- Action Leaders Quarterly Meeting and State Team Leader Semi-Annual Meeting (Implementation)
- Initiate Pennsylvania’s Agriculture Conservation Stewardship Program (Implementation)

Actions Steps and Timeline

3 Months – October 2020

- Tier 3 and 4 County Outreach and initiate CAP Planning (Local Action and C&E)
- Manure Management and Ag E&S Planning Training (Programmatic and Implementation)
- MS4 Annual Reports (Data Management and Reporting)
- Stormwater BMPs implemented in various DEP and State Agency Programs (Data Management and Reporting)
- Compilation and integration of all Pennsylvania data begins for 2020 Annual Progress Reporting (Data Management and Reporting)
- Fertilizer Bill (Legislative)

Actions Steps and Timeline

6 Months – January 2021

- Wastewater Plant Performance Technical Assistance (Implementation)
- Collaborate with CBP Partnership and EPA to further credit BMPs (Data Management and Reporting)
- Collaborate with CBP Partnership and EPA to establish creditable practice or combination of practices for implementation of advanced soil health strategies in the CB Watershed Modeling tools (Data Management and Reporting)
- Install additional monitoring stations on the Susquehanna River (Monitoring)
- State Agency Action Plans with nutrient reduction goals from state-owned lands (Programmatic)
- Completion of PRP/TMDL Plan Reviews for MS4s (Programmatic)

Actions Steps and Timeline

9 Months – April 2021

- Engage with other jurisdictions regarding interstate trading and cross-jurisdictional financing (e.g. Conowingo WIP)
- Investigate the potential for and implementation of short-term, low-interest, loans and other financing streams for agricultural projects
- Develop funding opportunities for turf conversion programs
- Continue to work with Tier 1 and 2 counties on CAP Implementation
- Continue to work with Tier 3 and 4 counties on CAP Development

Conowingo WIP

- The goals of the Conowingo WIP is to reduce an additional 6 million pounds of nitrogen, due to the infill at the Conowingo Dam.
- Multi-jurisdictional approach, with Steering Committee co-chaired by Maryland and Pennsylvania
- Cost-effectiveness and sector equity are key elements
- Geographic scale primarily based in Susquehanna River Basin and nitrogen-effective basins
- Seeking Principal Staff Committee (PSC) decisions to proceed
- Draft may be released for public comment this Summer



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