

**Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Reporting Template**

Date:

**Green** - action has been completed or is moving forward as planned    **Yellow** - action has encountered minor obstacles    **Red** - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Progress to Date	Justification for Change to Action Item
							Technical	Financial	Technical	Financial		

**Priority Initiative 1: Communications and Outreach**

**Section 2, State Action, Numeric Commitments**

<b>2.1.1A</b>	Continue communication, outreach and stewardship programs to increase the use of conservation tillage and no-till practices.	306,196 acres in conservation tillage; 805,778 acres in no-till	PDA, SCC, CDs, CCAs, Private Consultants, Penn State Extension, No Till Alliance, Farmland Preservation, Local Farmland Trusts/Conservancies, PA Farm Bureau	Chesapeake Bay	December 2025							
<b>2.1.2A</b>	Continue communication, outreach and stewardship programs to increase implementation of cover crop	547,695 acres with fall nutrients, traditional cover crop; 161,601 acres of land without fall nutrients, traditional cover crop; 124,106 acres no fall nutrients and harvested crop	PDA, SCC, CDs, CCAs, Private Consultants, Penn State Extension, No Till Alliance, Farmland Preservation, Local Farmland Trusts/Conservancies, PA Farm Bureau	Chesapeake Bay	December 2025	Challenges include CBP definition of cover crop and the inability to report commodity cover crop via transect survey methodology.						
<b>2.1.3A</b>	Continue communication, outreach and stewardship programs to increase implementation of pasture management	180,201 acres of land used for pasture would follow NRCS Prescribed Grazing Plan or Resource Improvement Practice.	NRCS, Penn State Extension, Private Consultants, CDs			Challenges include CBP definition of Prescribed Grazing and non-alignment with PA State regulatory requirements under Chapter 91 Manure Management and Chapter 102 Ag E&S.						
<b>2.1.1F</b>	Implement a comprehensive communication/outreach strategy to engage farmers/landowners in	85,000ac. of forested buffers planted on agricultural lands, and 3,100 acres of forested buffers on developed/non-ag lands.	DCNR, DEP, PSC, RFBAC, PA WIP III Forestry Workgroup, SCC, PDA, PSU, etc.	PA Bay-Wide	By 2022	Coordination, scheduling, lack of funding for marketing/communications/outreach/education, etc.						

	planting and maintaining riparian forest buffers.											
<b>2.1.2F</b>	Implement a communication/outreach program to engage a variety of turf owners to plant trees and meadows on their properties.	5K acres of “Urban Forest Expansion” (turf to trees) + 5K acres of “Conservation Landscaping” (turf to meadow).	PRPS, DCNR, DEP, agencies and partners, municipalities and parks, etc.	PA Bay-Wide	By 2023	Brand new program-Coordination, scheduling, lack of funding, etc.						
<b>2.1.3F</b>	Communicate the importance and values of forests to facilitate and encourage state and local land conservation programs.	Increase conserved lands both in the headwaters of the PA Chesapeake Bay watershed and near developing areas.	DCNR, DEP, PALTA, etc.	PA Bay-Wide	By 2023	Coordination, scheduling, lack of funding.						
<b>2.1.4F</b>	Emphasize the full range of benefits & co-benefits of stream and wetland restoration to facilitate additional implementation.	Increased acres of wetlands created and restored to approximately 400 acres annually; increased feet of stream restoration projects implemented to approximately 60,000 linear feet annually.	DEP and appropriate NGO partners.	PA Bay-Wide	By 2023	Coordination, scheduling, lack of funding.						

**Section 3, Countywide Actions**

<b>3.1.1</b>	Develop communications and outreach strategy for staged approach to WIP planning and implementation in all counties.	Webinars and calls to provide overview of WIP, define the expectations, and discuss next steps with Tier 3 & 4 counties. Designed to prepare these counties for the second phase of the WIP process.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Tier 3 & 4 counties	October-December 2019	Participation and engagement from Tier 3 & 4 counties.  DEP/state staffing limitations	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below		
<b>3.1.2</b>	Conduct outreach via webinars and one-on-one meetings to provide overview of WIP, define the expectations, and discuss next steps to prepare counties for the WIP planning process.	Tier 3 & 4 counties will explore the potential of forming regionalized planning groups of 2-4 counties. Regional planning groups will begin their regionalized planning process with an assigned external coordinator for focused outreach and engagement to county stakeholders.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Tier 3 & 4 counties	Begins February 2020 (following the completion of Tier 2 county planning)	Regionalized planning still requires counties to submit an individual county plan.  State staffing support	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 2</i> columns below		
<b>3.1.3</b>	Begin implementation of WIP plans completed by four pilot counties.	Assign an external coordinator to each Tier 2 county to assist with WIP planning and implementation efforts.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor,	Tier 2 Counties	Begins July 2019	State staffing support  Internal and External Coordination	See Funding and Resources Section, <i>Resources Needed</i>	See Funding and Resources Section, <i>Resources Needed</i>	See Funding and Resources Section, <i>Resources Needed</i>	See Funding and Resources Section, <i>Resources Needed</i>		

			Communication and Engagement Workgroup, External Contractor				<i>Needed Phase 1 &amp; 2 columns below</i>	<i>Phase 1 &amp; 2 columns below</i>	<i>Phase 1 &amp; 2 columns below</i>	<i>Phase 1 &amp; 2 columns below</i>		
<b>3.1.4</b>	Seek staffing to support this large-scale coordination and support effort.	An external coordinator will work one on one with the pilot counties to begin the implementation of their countywide action plan.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Pilot Counties	Begins July 2019	State staffing support  Internal and External Coordination	See Funding and Resources Section, <i>Resources Needed Phase 1</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 1</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 1</i> columns below	See Funding and Resources Section, <i>Resources Needed Phase 1</i> columns below		

**Section 4, Communication and Engagement Strategy**

<b>4.1.1</b>	Complete the public comment period and provide a response to comments received.	Comment Response Document will be attached to the final Phase 3 WIP	DEP CBO		August 2019							
<b>4.1.2</b>	Develop the outreach materials, webinars, templates for letters and mailings and success stories identified by the Communications and Engagement Workgroup for their use in message delivery and outreach.	Final materials will be distributed to the C& E Workgroup materials as they are finished for their use.	DEP/DCNR/PDA Communication Office, DEP CBO		As needed			\$200,000				
<b>4.1.3</b>	Finalize the DEP Web-based StoryMap	Final StoryMap	DEP Communication Office		Summer 2019			\$20,000				
<b>4.1.4</b>	Schedule and participate in focus groups, forums and workshops, as appropriate.	Presentations and summaries of such events and the input provided will be shared as appropriate.	C & E Workgroup members; DEP/DCNR/PDA Communication Offices, DEP CBO	Chesapeake Bay	As needed							
<b>4.1.5</b>	Communications and Engagement Workgroup members will use the delivery tools developed to reach their respective constituents through mailings, newsletters, their respective websites, conferences, workshops, etc. about the importance of clean water and the goals of the Phase 3 WIP.	Mailings, newsletters, websites, conferences and workshops of C&E Workgroup are utilized as appropriate to convey the message developed.	C & E Workgroup members; DEP/DCNR/PDA Communication Offices, DEP CBO	Chesapeake Bay	Between now and 2025							

Priority Initiative 2: Funding and Resources												
Section 2, State Action, Programmatic and Narrative Commitments												
2.2.1	Pass legislation providing a funding source or combination of funding sources for the implementation of the Phase 3 WIP.		PDA, DCNR, DEP, State Legislature, Governor's Office		As soon as possible							
2.2.2	Identify the process and develop specific procedures for the award of "block grants" to the lead planning teams for the implementation of the CAPs.	Policy and procedures and a grant agreement developed for use in the development and award of grants to counties in the implementation of the CAPs	DEP, Comptroller's Office		Summer 2019							
Section 2, State Action, Numeric Commitments												
2.2.1A	Investigate the incorporation of alternative manure treatment technologies and other potential strategies to address areas of excess manure nutrient generation and capital investment required for implementation of manure treatment systems.	Identify various strategies to minimize nutrient imbalances in areas of excess manure nutrient generation, including the incorporation of manure treatment technologies and manure transport, as they are determined to be feasible.	PDA, SCC, DEP Nutrient Trading Program, NRCS	Counties that are identified to have excess manure generated for crop need	December 2025	Capital investment and cost effectiveness is of concern.						
2.2.1F	Maximize existing funding sources for riparian forest buffer implementation in Pennsylvania.	Fully utilize existing funding sources for buffer implementation and maintenance annually, including federal, state, and private programs (esp. under-utilized programs such as REAP).	DEP (GG, 319), USDA (CREP+), SCC (REAP), DCNR (C2P2) TreePennsylvania (TreeVitalize) CBF (K10), etc.	PA Bay-Wide	By 2025	Rigid programs, existing restrictions, coordination, lack of understanding about all individual programs, etc. Lack of funds to start a new program.						
2.2.2F	Expand TreeVitalize and utilize other programs to facilitate community tree planting and maintenance.	50 New Acres of New Urban Trees (300 trees = 1 acre)	Tree Pennsylvania, DCNR, PSU, municipal partners, etc.	PA Bay-Wide	By 2022	Coordination, scheduling, lack of funding.						
2.2.3F	Create additional, flexible funding options for riparian forest buffers.	Develop new, innovative PA (or Ches. Bay) funding source and mechanism for Buffers, including incentive programs for landowners utilizing buffer co-benefits such as wildlife habitat, income/product potential, flood mitigation,	All agencies and partners	Bay	Ongoing/ ASAP	Innovation, Funding, Coordination, etc.						

		etc. Streamline funding source similar to DCNR's NFWF-Funded Stream ReLeaf program.										
<b>2.2.4F</b>	Ensure that riparian forest buffers are adequately maintained to ensure survival by developing a Maintenance funding source for NGOs to develop their own maintenance programs.	Develop a Riparian Forest Buffer Maintenance funding source to create the capacity for NGOs to develop their own maintenance programs for new and already-implemented buffers (up to 5 years after initial planting).	All agencies and partners involved in riparian forest buffer implementation	PA Bay-Wide	Ongoing	Lack of interest in funding maintenance from traditional funding sources as it does not result in "new" load reductions.						
<b>2.2.5F</b>	Continue and Increase Urban Tree Canopy Grants to Communities and non-governmental organization Partners	Utilize and increase funding available through the TreeVitalize annual grant program. Encourage tree planting and/or conservation of existing tree canopy in existing DCNR Grant programs, other agency grant programs as appropriate (grants to community parks, etc.) Connect this work to DCNR's Climate Plan.	DCNR, Tree Pennsylvania, PRPS	PA Bay-Wide	Ongoing	Current Funding does not meet demand. Processes, procedures, and administration.						
<b>2.2.6F</b>	Leverage existing funding sources for Stream and Wetland Restoration.	Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conforming stream and wetland restoration implementation, management and monitoring.	DEP, NRCS, SCC, NGOs, DCNR, Universities, etc.	PA Bay-wide	Ongoing	Strict program regulations, lack of knowledge about existing programs and creditable BMPs, etc.						
<b>2.2.7F</b>	Develop funding opportunities for turf conversion programs.	Include Conservation Landscaping as an eligible BMP in existing conservation grant programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities tied to flood mitigation.	DCNR, TreePennsylvania, TreeVitalize, DEP, etc.	Bay-wide	By 2021	Time, finding funding sources, etc.						
<b>2.2.8F</b>	Continue to implement stream restoration, emphasizing creditable, load-reducing projects. Pair stream restoration projects with tree planting BMPs whenever possible. Identify areas that may have a high cost-to-benefit ratio for load reductions from legacy sediment removal	Identify areas that would benefit from Legacy Sediment Removal and Ecosystem Restoration throughout priority areas of the watershed	DEP, CDs, Watershed Organizations, Private sector companies or NGOs working on remote sensing tools			Capital investment for design/implementation is of concern.						

	and associated ecosystem restoration.											
<b>Section 3, Countywide Actions</b>												
<b>3.2.1</b>	<p><b>Phase 1 (Pilot and Tier 2 counties):</b> Provide 8 – Community Clean Water Coordinators (External Full Time position)</p> <p><b>Phase 2 (Tier 3 &amp; 4 counties):</b> Provide 13 – Community Clean Water Coordinators (External Full Time position)</p>	External coordinating staff would be assigned to individual Tier 1 & 2 counties in phase 1, and to regionalized Tier 3 & 4 counties in phase 2. External Coordinators would be DEP contractors reporting to the DEP Internal Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to develop and implement countywide action plans.	<p>DEP</p> <p>External Contractor</p> <p>County Planning Offices</p> <p>County Conservation Districts</p> <p>Other County Partners</p>	Bay counties	<p><b>Phase 1:</b> Begins in July 2019</p> <p><b>Phase 2:</b> Begins in February 2020</p>	<p>State staffing support</p> <p>Internal and External Coordination</p>			<p><b>Total:</b> 21 – Community Clean Water Coordinators (External Full Time position)</p> <p><b>Phase 1:</b> 8 – Community Clean Water Coordinators (External Full Time)</p> <p><b>Phase 2:</b> 13 – Community Clean Water Coordinators (External Full Time)</p>	<p><b>Total:</b> 21 – Community Clean Water Coordinators (\$2,100,000 (\$100,000 per coordinator))</p> <p><b>Phase 1:</b> 8 – Community Clean Water Coordinators (\$800,000)</p> <p><b>Phase 2:</b> 13 – Community Clean Water Coordinators (\$1,300,000)</p>		
<b>3.2.2</b>	<p><b>Phase 1:</b> Provide 3 – Community Clean Water Coordinator (Full Time Internal Coordinator Position)</p> <p><b>Phase 2:</b> Provide 7 – Community Clean Water Coordinator (Full Time Internal Coordinator Position)</p>	Internal Coordinators: Would be DEP employees. Internal Coordinators would serve as the point of contact and provide WIP coordination for DEP and all other state agencies for external coordinator and technical coordinators.	DEP		<p><b>Phase 1:</b> Begins in July 2019</p> <p><b>Phase 2:</b> Begins in February 2020</p>	<p>State staffing support</p> <p>Internal and External Coordination</p>			<p><b>Total:</b> 10 – Community Clean Water Coordinator (Full Time Internal Coordinator)</p> <p><b>Phase 1:</b> 3 – Community Clean Water Coordinator (Full Time Internal Coordinator)</p> <p><b>Phase 2:</b> 7 – Community Clean Water</p>	<p><b>Total:</b> 10 – Community Clean Water Coordinator (\$1,000,000 (\$100,000 per coordinator))</p> <p><b>Phase 1:</b> 3 – Community Clean Water Coordinator (\$300,000)</p> <p><b>Phase 2:</b> 7 – Community Clean Water Coordinator (\$700,000)</p>		

									Coordinator (Full Time Internal Coordinator)			
<b>3.2.3</b>	<p><b>Phase 1:</b> Provide 2 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator)</p> <p><b>Phase 2:</b> Provide 8 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator)</p>	<p>Technical Coordinator: A DEP contractor reporting to the DEP Internal Coordinator. The Technical Coordinator would be responsible for: for providing information and facilitation of planning tools through the planning and implementation process, assist with reporting and tracking of milestones annual progress, assist in model runs for plan development and during annual milestone updates.</p>	Technical Contractor		<p><b>Phase 1:</b> Begins in July 2019</p> <p><b>Phase 2:</b> Begins in February 2020</p>	<p>State staffing support</p> <p>Internal and External Coordination</p> <p>Technical coordinators will have varied workloads.</p>			<p><b>Total:</b> 10 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator)</p> <p><b>Phase 1:</b> 2 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator)</p> <p><b>Phase 2:</b> 8 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator)</p>	<p><b>Total:</b> 10 – Clean Water Technical Assistance Coordinators (\$90,000 per coordinator)</p>		
<b>3.2.4</b>	<p><b>Phase 1:</b> Provide 1 – Clean Water Facilitation Coordinator (Full Time Facilitation Coordinator Position)</p>	<p>Facilitation Coordinator: A DEP contractor reporting to the DEP Internal Coordinator.</p>	Facilitation Coordinator  DEP		<p>April 2019.</p>	<p>State staffing support</p> <p>Internal and External Coordination</p>			1 – Clean Water Facilitation Coordinator (Full Time Facilitation Coordinator)	1 – Clean Water Facilitation Coordinator \$100,000		
<b>3.2.5</b>	<p><b>Phase 1:</b> Provide 1 – Clean Water Outreach Coordinator (Full Time Outreach Contractor)</p>	<p>Outreach Coordinator: A DEP contractor reporting to the DEP Chesapeake Bay Office, in coordination with WIP Communication and Engagement Workgroup and DEP Communication Office.</p>	Outreach Coordinator  DEP		<p>April 2019.</p>	<p>State staffing support</p> <p>Internal and External Coordination</p>			1 – Clean Water Outreach Coordinator (Full Time Outreach Contractor)	1 – Clean Water Outreach Coordinator \$100,000		

## Priority Initiative 3: Expanding Capacity for Technical Assistance

### Section 2, State Actions, Programmatic and Narrative Commitments

<b>2.3.1</b>	Implement a pilot of the “One-Stop-Shop” concept in the two Tier One counties of Lancaster and York Counties.	A Request for Proposals will be released and awardee put in place. Assistance will be provided to landowners and municipalities to complete projects.	DEP, Pennvest	Lancaster and York	RFP done Summer 2019 Pilot done Summer 2020								
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### Section 2, State Actions, Numeric Commitments

<b>2.3.1A</b>	Initiate Implementation of Pennsylvania’s Agriculture Conservation Stewardship Program	Finalize draft program guidance, application, and on-farm assessment tools; 3 <sup>rd</sup> party verification process, pilot program; and release program for initial implementation	Certified Third Parties, CDs, DEP, SCC, PDA	Chesapeake Bay	January 2020								
<b>2.3.2A</b>	Work with third-parties, integrators, and co-ops to identify alternative methods to support and assess compliance with regulations without use of regulatory entities	Assess/increase implementation of agricultural plans and BMPs using programs such as those developed by Turkey Hill, Alliance for Chesapeake Bay, and MD/VA Cooperative	Certified Third Parties, Integrators and Cooperatives, DEP	Chesapeake Bay – Animal Producers	December 2025								
<b>2.3.3A</b>	Implementation of Animal Waste Management Systems	Adequate manure storage for 90% of swine/poultry operations; 75% of all other animal types	NRCS, CDs, Private Consultants, Swine and Poultry Integrators	Chesapeake Bay – Animal Producers	December 2025	Need to amount of licensed P.E’s and those with job approval authority in order to meet PA regulatory requirements for liquid storages. Need to increase number of qualified engineers for solid storages.							
<b>2.3.4A</b>	Develop web-based and in-person training for Manure Management Planning and Agriculture Erosion and Sediment Control Planning	Finalize Soil Erosion and Sedimentation Control Manual for Agricultural Operations technical guidance (383-4200-002) and train conservation districts and consultants.	DEP, Penn State Extension, SCC, NRCS	Statewide	January 2020								
<b>2.3.1F</b>	Increase technical assistance available to landowners interested in implementing riparian forest buffers.	Create both new Commonwealth staff positions and new positions at partner organizations, and increase entrepreneurial opportunities for forest buffer work.	DCNR, PDA, DEP, SCC, DCED, etc.	PA Bay-wide	Ongoing	Funding, overhead, space, capacity, available candidates, on-boarding process, hiring process, etc.							





	Know Law to allow for additional confidentiality of landowner records.											
<b>2.4.2</b>	Develop a planning and prioritization tool for use in the development and refinement of the CAPs.	A final tool available to county planning teams for use in the prioritization and tracking of practices and future planning	DEP, EPA, Chesapeake Conservancy	Chesapeake Bay	2020							
<b>2.4.3</b>	Release a request for proposals for a contractor to begin the pilot project for the use of Lidar and remote sensing technology to identify BMPs installed for the control of stormwater as part of development activities.		DEP, DCNR	Chesapeake Bay	Summer 2019							
<b>2.4.4</b>	Continue enhancements to PracticeKeeper.		DEP	Statewide								
<b>2.4.5</b>	Finalize the revised draft Pennsylvania BMP Verification Plan and receive EPA's approval of the plan.	Implementation of a final approved plan.	DEP and approved verifiers	Chesapeake Bay	Begin Summer 2019							

**Section 2, State Actions, Numeric Commitments**

<b>2.4.1A</b>	Work with the Chesapeake Bay Program Partnership to establish a creditable practice or combination of practices for implementation of advanced soil health strategies or plans on farms in the Chesapeake Bay Watershed Model for future crediting of these initiatives. Once established as a practice or set of practices that can be credited for progress in the model, commit additional funding or the technical and financial assistance necessary to implement these practices.		DEP, PDA, SCC		January 2021	Buy in from the Chesapeake Bay Program Partnership						
<b>2.4.2A</b>	Expand reporting of dairy precision feeding	Assess and report implementation of dairy precision feeding for 175,000 Animal Units (approximately 152,000 milking cows)	PDA, Dairy Co-ops, PACS Program, Dairy Nutritionists, PA Dairyman's Assoc., CDs, NRCS		December 2025	Voluntary program. Need to have the ability to track and report what dairy farmers are already doing.						

<b>2.4.3A</b>	Expand reporting of Enhanced Nutrient Management	<p>64,640 acres with no manure applied would be managed based on a nitrogen and phosphorus based nutrient management plan;</p> <p>64,640 acres with no manure applied would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus.</p> <p>Tracking of acres with manure applied, where the land would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus</p>	4R Nutrient Stewardship Alliance, PACS, CCAs, CDs, SCC, DEP		December 2025	Voluntary program. Need to have the ability to track and report what farmers are already doing.							
<b>2.4.4A</b>	Expand reporting of grassed buffers	50,000 acres of land adjacent to streams for establishment of grassed buffers at least 35 feet in width	NRCS, DEP, CDs		December 2025	Costs associated with on-site inspection to determine grassed buffers; use of aerial imagery a potential							
<b>2.4.1F</b>	Work with the EPA Bay Program Partnership to enhance the existing crediting protocols for legacy sediment improvement projects in the Chesapeake Bay Model.	Finalized crediting protocol that considers all aspects of the legacy sediment improvement projects	DEP, Bay Program Partnership		January 2020								
<b>2.4.2F</b>	Ensure adequate tracking of partner-implemented forestry BMPs including forest buffers, tree canopy, conservation landscaping, urban forest expansion, stream wetland restoration.	Develop mechanism to capture partner reported and privately funded buffers and other BMPs, with appropriate QA/QC processes, enabling those BMPs to be properly credited.	DEP, DCNR, PDA, SCC, EPA, PACD, NGOs, Farm Organizations, NRCS, PSU	PA Bay-wide	Ongoing	QA/QC of partner data, system access, etc.							
<b>2.4.3F</b>	Celebrate successful implementation and maintenance of forestry	Generate broad understanding and acceptance of watershed	All agencies and partners.	PA Bay-wide	Ongoing	Report generation, digestible messaging,							

	BMPs through reporting successful efforts.	restoration efforts and how they improve quality of life in PA communities through reporting successful efforts, resulting in a greater appetite for forestry and all BMPs. Broader acceptance and appetite for these BMPs will make outreach and implementation less time-intensive, less expensive processes.				continual messaging, etc.						
<b>2.4.1S</b>	Collect Municipal Separate Storm Sewer System (MS4) BMP data using the new reporting system for electronic submission for annual reports	Complete reporting system by July, 2019, Enhancements to the system through 2020	Penn State, DEP, MS4s	Statewide	2020		Penn State	EPA grant funding				
<b>2.4.2S</b>	Initiate and collect stormwater BMP data from ESCGP inspections											
<b>2.4.1W</b>	Explore the feasibility of developing a GIS based online monitoring and reporting program that municipalities can use to report on-lot system operation and maintenance.		DEP									

**Section 3. Countywide Actions**

<b>3.4.1</b>	Track and report progress in Phase 3 WIP planning and implementation in all counties.	Development of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins July 2019 Phase 2 Begins Feb 2020	State staffing support Internal and External Coordination						
<b>3.4.2</b>	Update reductions in the County Planning Progress template upon completion of each county plan.	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins July 2019	State staffing support Internal and External Coordination						
<b>3.4.3</b>	Track and report progress to continue implementation of the Phase 3 WIP State Numeric Commitments described in Section 4,	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 2 Begins Feb 2020	State staffing support						

	State Actions in the counties with minimal reductions.					Internal and External Coordination						
<b>Priority Initiative 5: Compliance</b>												
<b>Section 2, State Actions, Programmatic and Narrative Commitments</b>												
<b>2.5.1</b>	Pass the Fertilizer Bill to achieve the identified nutrient reductions on urban and agriculture lands.											
<b>2.5.2</b>	Review, consider and potentially incorporate a revised Phosphorus Index into the planning requirements for land application of biosolids.	Incorporate revised P index tool into future nutrient management planning efforts where approved for use	SCC, Penn State, DEP, NRCS	Statewide	July 2020							
<b>Section 2, State Actions, Numeric Commitments</b>												
<b>2.5.1A</b>	Implement NPDES Concentrated Animal Feeding Operation (CAFO) Program Delegation	Permit 100% of all CAFOs (350+ operations in Chesapeake Bay Watershed); Inspect 20% of all permitted CAFO operations annually, per CMS	DEP									
<b>2.5.2A</b>	Complete complaint follow-up for CAFO and non-CAFO facilities		DEP, SCC, CDs									
<b>2.5.3A</b>	Implement Chesapeake Bay Agriculture Inspection Program, Phase 1, with an emphasis on meeting state planning requirement on non-CAFO operations.	Inspect 10% of the agricultural acreage annually.  50 inspections will be performed per CD Bay Technician; 100 inspections will be performed per DEP Regional Office Water Quality Specialist per year.	DEP, CDs	Chesapeake Bay	Ongoing							
<b>2.5.4A</b>	Implement Chesapeake Bay Agriculture Inspection Program, Phase 2, with an emphasis on meeting both state planning and implementation requirements on non-CAFO operations.		DEP, SCC, CDs, NRCS, Private Consultants	Chesapeake Bay	Ongoing	Available funding for Technical Assistance and construction of BMPs remains a concern.						
<b>2.5.1S</b>	Complete the Pollutant Reduction or Total Maximum Daily Load Plan Reviews for the 2018 Municipal Separate	Complete technical review and issue permits	DEP, MS4 permittees	Statewide	2019	MS4s not addressing DEP review comments, staff shortages	Existing DEP regional office staff	-	Additional DEP regional office staff	-		

	Storm Sewer System (MS4) permits											
<b>2.5.2S</b>	Develop the 2023-2028 MS4 Permit		DEP	Statewide	2019 through 2022							
<b>2.5.3S</b>	Develop the Industrial Stormwater Permit		DEP	Statewide	2019 through 2021							
<b>2.5.4S</b>	Develop of 2019-2024 Construction Stormwater Permit		DEP	Statewide	2019							
<b>Section 9, Climate Change</b>												
<b>9.3.1</b>	Complete the Penn State Study, <i>Climate Change Impacts on Pennsylvania's Watershed Management Strategies and Water Quality Goals</i>	Study will answer some key questions that will be used to more effectively select and target practices that will address climate resiliency goals.	DEP, Penn State	Statewide	December 2019							

### Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Reporting Template

**Each county-based local area will use this template to identify:**

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.
3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes.

**Asterisk:** Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

**For each Priority Initiative or Program Element:** Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the “who, what, where, when and how” of the plan:

**Description** = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

**Performance Target** = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

**Responsible Party(ies)** = Who. This is/are the key partner(s) who will implement the action items through outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

**Geographic Location** = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

**Expected Timeline** = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

**Resources Available: Technical & Funding** = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

**Resources Needed: Technical & Funding** = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

**Potential Implementation Challenges/Issues** = This field will note challenges and issues that may delay program implementation (Description).