Phase 3 Watershed Implementation Plan (WIP) Programmatic Recommendations Template

Action #	Description	Performance Target(s)	Expected Timeline	Potential Implementation Challenges	Potential Recommendations on Improvement	Resources Needed			
						Technical	Suggested Source	Financial	Suggested Source
Programmatic Recommendation 1: Continued Programmatic Support									
1.1*	Retain funding and technical support from the Chesapeake Bay Office to implement CAP initiatives	Continuous funding and technical assistance provided by the CB Office and DEP regional support through CAP implementation	2021-2025+	Costs associated with staffing, meeting, planning, and supporting implementation efforts. Commitment by agencies to continue assistance through the duration of this initiative.	Support addition of new technical positions and additional funding for CAP implementation	More dedicated staff (1-2) to assist coordination and implementation of projects and funding opportunities	CBO, DEP	Funding to implement CAP activities, new staff payroll	CBO, DEP
1.2*	Funding Support: Block grant for individual counties or county partnerships Increased staff funding Emergency funding Farmland Preservation	Offer block-style grant for county CDs to utilize for more efficient project coordination and implementation. Increase funding for current staff to help with retention and improve project efficiency by avoiding the hire/training cycle. Disaster relief funds to help when floods, etc. Increase Farmland Preservation funds to help incentivize preserving prime farmland.	2021-2025+	Approval of proposed PA Clean Streams Fund and Invasive Species Program Competing with current property sales vs. low pay for Farmland Preservation program. We currently have $180,000 and offer $1,200/acre.	Offer block-grant style grants that county's can apply for in order to better facilitate and speed the process of project coordination and implementation.		DEP, DCNR	$100k annual Block grants, $75k annual staff salary increase stipend $300k for emergency projects $400,000 annual FP	DEP, DCNR, Proposed PA Clean Streams Fund, Proposed Invasive Species Program, SCC, CAP
1.3*	Provide more educational opportunities for CD staff to support DEP initiatives	Educational opportunities including GIS training, project design and construction training, etc.	2021-2025+	Location and access to training, training costs	Provide more comprehensive training opportunities for CD staff to more work more effectively using the latest technologies and knowledge		DEP, PFBC		DEP
1.4	Continue supporting CD Field Rep positions	Support and fund conservation district field representation positions to assist the district with programs and advising	2021-2025+				DEP		DEP
1.5*	Support new staff positions within agencies and/or conservation districts	Fund additional staff positions to facilitate implementation of CAP and non-CAP programs; full-time, part-time, or paid interns	2021-2025+		Support new staff positions including technical staff, invasive species mgmt. staff, etc. and expansion of office space to support additional staff			$60k/yr for new CD staff member $10k/yr paid CD intern	

1.6*	Support dedicated funds for Ag, WS, and other programs	Offer dedicated funds for project implementation without competitive grant application process	2021-2025+	Approval of proposed PA Clean Streams Fund and Invasive Species Program	Copy the Dirt, Gravel, Low Volume Roads program / Utilize proposed PA Clean Streams Fund monies for Ag BMP projects / Utilize proposed Invasive Species Program monies on invasive species projects.	State support on invasive species training	DEP, DCNR		DEP, DCNR, Proposed PA Clean Streams Fund, Proposed Invasive Species Program, SCC
1.7	Improve Permit process and process time	Provide training for zoning officers so they can help ensure proper permit requirements from the start.	2021-2025+			Training Permit update meetings	DEP		DEP
1.8	Enforce Act 167	Reduce rate and volume of stormwater to prevent streambank erosion through infiltration	2021-2025+	No enforcement at any level.	Enforcement is needed.		DEP		DEP

Programmatic Recommendation 2: Data mgmt. and Modeling

2.1	Improved data reporting and management	Develop a central reporting system that enables all local and state stakeholders to report implemented and planned BMPs for credit across all programs, and disseminate data to CAST/MMW/FieldDoc/Practice Keeper/MS4, etc. models.	2021-2025+	Funding to develop a central reporting system. / Integration capabilities between multiple modeling platforms. / Education for stakeholders to utilize the system on a consistent basis. / Update and standardize eligible BMPs across platforms.	One consolidated system to save time on data entry and retrieval		DEP		DEP
2.12	Inventory verification	Enable data sharing across platforms and contributing entities.	2021-2025+	Data privacy.	Need verification of BMPs installed through data sharing platforms and staff to go physically verify for more accurate reduction numbers toward CAP goals.	Conduct verification and data entry		2 Paid interns $20k/year	CAP
2.13	Educate for data capture	Enable public and citizen scientist data input	2021-2025+	Education and incentive for non-stakeholders to report conservation practices and citizen science data.	Education and outreach – webinars, watershed presentations, etc		DEP, CCCD		DEP, CCCD
2.2	Develop a model/template to capture and report non-manure nutrient mgmt.	Encourage, capture, and report non-manure nutrient inputs.	2021-2025+	Will require close coordination and cooperation between regulatory agencies, private fertilizer companies, and farmers to achieve a statewide model. / Requesting fertilizer companies to participate in a program that could reduce sales.	Dept. Ag, DEP, farmer coordination at state-level with the fertilizer industry. / Added pollutant reductions reported from work already being done. / Coordinate with ag consultants for reporting instead of relying on the farmer.		DEP		DEP
2.3	Develop a documentation program for commercial and/or homeowner	Support fertilizer legislation where reporting is required for fertilizer inputs on developed lands and lawns	2021-2025+	Education of responsible parties, receiving timely information, training on reporting system	Pair reporting with another generally used reporting mechanism to State Government	Landowner education	DEP, Dept. Ag, County CDs	Funding for reporting system $5k	

ID	Name	Description	Timeframe						
	nutrient applications in developed lands								
2.3*	Incorporate water quality data into models	Integrate existing and new water quality data submissions into models	2021-2025+		Include citizen science data, data from ALLARM program, etc.				
2.4	Promote safe disposal of household chemicals and products	Provide local disposal location/drop off of household chemicals multiple times a year to reduce dumping/flushing		Increased staff and transport logistics to haul away	Educate on alternative eco-friendly products homeowners can use, pesticide/herbicide safety	Materials to distribute/ PSA's	DEP		DEP

Programmatic Recommendation 3: Update eligible BMPs for credit

ID	Name	Description	Timeframe						
3.1*	Streambank stabilization structures	Count in-stream and bank structures for sediment load reduction as well as nutrient reduction through stabilizing banks and stopping bank erosion	2021-2025+		Give credit to all streambank stabilization projects including in-stream habitat structures for sediment load reduction. Reevaluate how sediment loads are calculated and credited based on the USGS, Susq. University study initiative		CBO		CBO
3.2*	Invasive species mgmt.	Provide technical assistance, monitoring, treatment and/or staff funding and support for invasive species control on public lands; emphasis on Japanese Knotweed, Tree of Heaven, and Spotted Lanternfly	2021-2025+	Approval of Invasive Species Program	Incentivize invasive species removal, replacement with native plants Fund new staff positions for invasive species monitoring and removal			$100k/year projects $50k/year staff	Proposed Invasive Species Program
3.3	Reduce mosquito, tick habitat	Credit efforts to remove Japanese Barberry other contributors to abundant tick populations where Lyme Disease is prevalent	2021-2025+		Include invasive species removal as a credit towards improving public health, and improving soil structure, protecting native plants and natural areas for recreation and other purposes				
3.31		Credit efforts to reduce stagnant organic water that produces West Nile Virus infected mosquitos	2021-2025+						
3.32		Offer funding for hosting tire cleanups to reduce mosquito populations and clean up natural areas	2021-2025+		Provide funding for tire cleanups, or offer regular tire collection events at each county on an annual basis		CBO	$25k/year	CBO
3.33		Promote habitat improvements for vector predators such as bats, dragonflies, turkey, opossums, frogs and toads, etc.	2021-2025+				DEP		DEP
3.4*	Education and outreach	Provide a documentation method for reporting educational and outreach activities, audience reached, materials distributed, and actions taken by participants	2021-2025+				DEP, CBO		DEP, CBO
3.41*		Include a reporting method into Practice Keeper for reporting educational activities and audience reached	2021-2025+				CBO		CBO

3.42*		Credit programs that distribute conservation materials and implementation such as rain barrels, rain gardens, sanitary well caps, tree giveaways and plantings, etc.	2021-2025+				CBO		CBO
3.5*	Land Retirement	Support credits for land retirement such as solar fields and conservation easements and wetland restoration	2021-2025+				CBO		CBO
3.6*	Cropland Conversion	Support credits for cropland conversions that convert retired crop fields into permanent cover to improve soil health, habitats, and sequester carbon	2021-2025+				CBO		CBO

Programmatic Recommendation 4: Re-evaluate Water Resources

4.1*	Stream re-evaluation/re-designation	Reevaluate stream reach conditions and designation for streams that have not been analyzed within the last 5-10 years	2021-2025+	Education for CD and other agency staff to utilize DEP protocols Testing equipment access or funding to purchase	Many of our local streams have not been evaluated for stream health since the 1990s/early 2000s. A reevaluation of stream health should be conducted on a regular basis, with priority towards recently developed areas. Hire additional staff (1-2) to coordinate and conduct field analyses of streams.	training	DEP	$20k/year interns	DEP
4.2*	Groundwater supply analysis and testing	Conduct groundwater resource testing state-wide to determine drinking water quality for private well owners	2021-2025+		Offer groundwater quality information to private well and other private drinking water source owners so they know what they are drinking or if they need to mitigate a drinking water quality issue such as bacteria, nitrate contamination, septic leaks, toxic minerals, etc.		USGS		DCED, USGS
4.2*1		Provide opportunities for regular private well water testing and sanitary well cap installation	2021-2025+		Provide funding or giveaway events for private well owners to protect their well heads using sanitary well caps		DEP	$5k/year	DEP
4.22*		Support regulatory legislation for private wells	2021-2025+	Regulation of previously unregulated wells	Private wells should be regulated in order to maintain the integrity of public and private drinking water supplies				
4.3*	Acid deposition	Continue funding AMD and acid deposition projects to restore stream health and support trout survival	2021-2025+		Provide additional dedicated funding and technical support for AMD projects		DEP		DEP
4.4*	Preserve existing high-quality streams	Support and fund projects that enhance and protect existing high-quality streams that support healthy trout populations to preserve the integrity of the stream's health and prevent degradation	2021-2025+		Offer funding and technical support towards the protection of attaining streams and healthy trout populations to maintain or enhance the stream's health.				

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

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

1. **Inputs** – The statewide and/or federal policies, regulations, initiatives, programs, funding and resources that will help your county meet its goal.

2. **Process** – What are the changes that need to occur for the county to be successful in the process? These are the action items listed under each priority recommendation.

3. **Outputs and outcomes** – Both short and long-term. These are the programmatic recommendations identified by each county. Performance targets identify your county's needed change in order to meet your county goal.

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 Programmatic Recommendation: 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 "what, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or changes to the current policy and regulation. A programmatic or policy effort will allow for the completion of cation items listed in the Planning and Progress Template.

Performance Target = How. This is an extension of the Description above. The performance target details the programmatic change that will enable you to complete the action items identified in the Planning and Progress Template. This can be a further description of the challenge to implementation from the Planning and Progress Template.

Expected Timeline = When. Provide the needed completion date for the programmatic recommendation that will assist your county in meeting its goal. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Potential Implementation Challenges = This field will note challenges and issues that may delay program implementation (Description). Potential challenges may relate to your county Planning and Progress Template.

Potential Recommendations on Improvement = This field will note recommendations on how to change or improve the program (Description).

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description).