

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

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			Review Checklist Comments
							Technical	Source	Financial	Source	Technical	Suggested Source	

Priority Initiative 3: Streams and Natural Resources

3.1	Stream/Buffer Opportunities and Targeting GIS Layer (tied to P.I. 1 Catchment Targeting Initiative)	<i>Game plan for "buffer bonus" program by spring 2022</i>	Data Management (DM) Action Team (AT), Catchment Targeting (CT) AT, Ag AT, Municipal AT, County	All areas with emphasis provided towards prioritized catchments	On-going with layer definitions outlined mid-2022	<p>County GIS layer(s) for targeting direction and results needs developed</p> <p>Assume BMP reconciliation can be achieved through targeting tool</p> <p>Field verification required through Catchment Targeting Initiative as efforts progress through individual catchments</p> <p>Potential "buffer bonus" program to complement other ag funding streams for implementation</p>	County GIS, BerksNature, Stroud, Alliance for the Ches. Bay (ACB), Ches. Bay Foundation (CBF), Technical Service Providers (TSPs), Schuylkill County Conservation District (SCCD)		NFWF, Growing Greener (GG)		Final game plan for potential "buffer bonus" (or similar program in 2022)		\$15,000-\$25,000 (also depends on extent of platform-build (or expand) platforms and personnel) for additional licenses, hardware, etc.) (See P.I. 5 Data Management for more info)	TBD but options include DEP or other state agency
3.2	Ag Riparian Zone	<p><i>Forest Buffer – 280 new acres</i></p> <p><i>Forest Buffer Narrow – 420 new acres</i></p> <p><i>Forest Buffer with exclusion fencing – 40 new acres</i></p> <p><i>Forest Buffer Narrow with exclusion fencing – 60 new acres</i></p> <p><i>Grass Buffer – 110 new acres</i></p>	SCCD, Ag Technical Service Providers (TSPs), NRCS, watershed groups, Alliance for Chesapeake Bay (ACB), Chesapeake Bay Found. (CBF), Stroud, municipalities, farmers, County	All areas with emphasis provided towards prioritized catchments (as catchments analyzed)	On-going with inherent tie to Action 3.1	<p>Farmer resistance or buy-in</p> <p>Proposed implementation numbers need reconciled as general perception is proposed BMP rates are more than available or capable</p> <p>Simple reference sheet outlining who, what, where, etc. for types of buffers and locations for implementation would be ideal to</p>	SCCD, NRCS, TSPs, Stroud, ACB, CBF, watershed groups		NFWF, GG, DCNR, CREP, Keystone, TreeVitalize, PACD, RCPP, EQIP, MEBF, Chesapeake Bay Trust (CBT) grants		Volunteers and/or contractors for implement.		Capital Cost: ~\$4.6 million	

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		<p><i>Grass Buffer Narrow – 190 new acres</i></p> <p><i>Grass Buffer with exclusion fencing – 20 new acres</i></p> <p><i>Grass Buffer Narrow with exclusion fencing – 30 new acres</i></p>				<p>assist with targeting efforts and landowner engagements*</p> <p>Coordinate with Ag AT for education (Action 2.1)</p>									
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3.3	Urban/ Developed Areas Riparian Zone	<p><i>MS4 Riparian Forest Buffers – 2 new acres</i></p> <p><i>Non-MS4 Forest Buffers – 18 new acres</i></p>	Local municipalities, watershed groups, Stroud, ACB, SCCD, County	All areas with emphasis provided towards prioritized catchments (as catchments analyzed) Individual municipal engagements for promotion of buffers	On-going with inherent tie to Action 3.1	<p>Landowner resistance or buy-in</p> <p>Tie buffer improvements where stream restoration improvements are pursued and where appropriate</p> <p>One-on-one municipal engagements will increase opportunities</p>	SCCD, local municipalities, Stroud, ACB, local engineers/ consultants		NFWF, GG, DCNR, Keystone, TreeVitalize, CBT				Capital Cost: ~\$81,000		
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3.4	Abandoned Mine Reclamation (AMR)	Abandoned Mine Reclamation – 150 acres	Eastern PA Abandoned Mine Coalition (AMC), SCCD, local watershed groups, local municipalities	All mixed open use areas (inventory through catchment targeting)	Ongoing	Provide or acquire complimentary funding to existing initiatives Community or land re-development in conjunction with AMR	Eastern PA AMC, DEP, App. Region Reforestation Initiative (ARRI)-thru Office of Surf. Mining		AMLF, GG), AMLER				Capital Cost: ~\$2.8 million		
3.5	Focused Stream Corridor BMP implementation	Urban Stream Restoration – 14,000 new LF Non-urban Stream Restoration – 8,000 new LF Wetland Creation – 30 new acres Wetland Restoration – 60 new acres	Local municipalities, watershed groups, SCCD, County, National Trout Unlimited (TU)	All areas with emphasis provided towards prioritized catchments (as catchments analyzed)	On-going with inherent tie to Action 3.1	Direct tie to Catchment Targeting Initiative (P.I. 1) Threats to infrastructure should include a more comprehensive restoration strategy considering the entire floodplain (Hazard Mitigation Plan) BMP implementation should ensure multiple regional benefits and reduced implementation barriers would increase receptiveness*	SCCD, Trout Unlimited (TU), watershed groups, local engineers/consultants, County		NFWF, GG, CBT, PennVEST, TU National, private				Capital Cost: ~\$9.9 million		

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3.6	Dirt & Gravel and LV Road improvements with WQ components	<i>Driving Surface + Raising the Roadbed – 5,000 new linear feet</i>	SCCD, County, local municipalities	All areas with emphasis provided towards prioritized catchments (as catchments analyzed)	On-going with possible annual inventory outlined 1 st qtr of each year	Existing popular program (“don’t fix what isn’t broken”)	SCCD, local municipalities		Low Volume (LV) Roads program (continued funding)				Capital Cost: ~\$75,000		
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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.

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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).