	Phase 3 Wa	tershed Imple	mentation P	lan (WIP) Pla	inning and F	Progress Template									
		Green - action has	s been complete	ed or is moving f	forward as plan	ned <u>Yellow</u> - action	has encountered	l minor obsta	cles <u>Red</u> - a	ction has not	been taken or	has encountere	d a serious barrie	er	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources <u>Available</u>			Resources <u>Needed</u>				Review Checklist Comments
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
Priorit	y Initiative 4	: Municipal													
4.1	Provide general education and assistance to individual municipalities for MS4 Permit compliance and regional opps.	Advanced IDD&E Control – 75 acres treated  Local training program game plan (spring 2022)	County, local municipalities, SCCD, Emergency Management (EMA) Coord.	All areas and MS4s	Ongoing with engagements occurring in conjunction with Catchment Targeting Initiative and actions (Action 4.5)	Identify needs and assistance channels for compliant MS4 programs (specifically MCM #3 and education/outreach channels)  Piggy-back existing media platforms (e.g. County website) with information and tools; update informational tools with SB3 elements  Local demo projects platform demonstrating examples for all munis to "follow" that includes multiple benefits including Hazard Mitigation Plans (HMPs) and regional projects (booklet and story map approach)-generate primarily inhouse, additional resources TBD  On-line/in person trainings (Academy) developed by EMA and County for munis. Potentially build off CWA for a localized platform  Explore possibility to develop Watershed Action Plans (WAPs) to communicate	DEP, local engineers/consultants, EPA, County  Clean Water Academy (CWA)  Constant Contact for material distribution		Environ. Education (EE) Grant	DEP	Final game plan for localized training academy in spring 2022		TBD based on local training platform needs; current assumption is an approximate need of \$25,000 to launch \$15,000/ watershed if WAP approach pursued		

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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
						visually proposed opps. With municipalities and local stakeholders									
4.2	Stormwater BMP Implementation	Rate Reduction SWP Standards – 600 new acres treated  Treatment SWP Standards – 100 new acres treated  Infiltration Practices – 25 new acres treated  Bioretention – 25 new acres treated  Bioswale – 50 new acres treated  Vegetated Open Channels – 25 new acres treated  Impervious Surface Reduction – 0.4 acres	Local municipalities, developers, SCCD, County	All areas with emphasis provided towards prioritized catchments	Ongoing (timing tied to catchment analyses; Action 4.5)	Significant uncaptured and/or underreported BMPs are assumed in this category and difficult to project. Assume significant progress achieved through BMP reporting reconciliation occurs for revisions to BMP implementation scenario in 2023 to better reflect rates.  BMPs providing "flooding relief" are prioritized	Local engineers/ designers, DEP Inspection requirements in place		Developers, local municipal., Growing Greener (GG), NFWF, PennVEST, Chesapeake Bay Trust (CBT) grants, DCNR		Hardware/ software for BMP capture (ESRI phone- based info capture platform)- see P.I. 5 Data Manage.		Capital Cost:     ~\$TBD (after reconciliation and BMP rates revisions); current assumptions provide an overall range of anywhere from \$14 million to \$20 million		

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								Technical	Source	Financial	Source Technical	Suggested Source	Financial Suggested Source					
4.3	Water quality components in the Urban Landscape	Conservation Landscaping – 100 new acres  Urban Forest Planting – 10 new acres  MS4 Tree Canopy – 2 new acres  Urban Nutrient Management – 1,600 acres	SCCD, County, local municipalities, local watershed groups	All areas with emphasis provided towards prioritized catchments	Ongoing with inherent tie to Action 4.5	Urban nutrient management is tied to fertilizer legislation at the state level*  Demo projects would be ideal to show alternatives to "Conventional" approaches (carve out SB3 funds to implement)	Alliance for the Chesapeake Bay (ACB), Chesapeake Bay Found. (CBF), DCNR, Master Watershed Stewards, Master Gardeners		DCNR, Keystone, NFWF, Growing Greener (GG), Chesapeake Bay Trust (CBT), local municipal.			Capital Cost: ~\$28,000						
4.4	Septic Systems	Conventional Septic Denitrification – 800 systems  Septic System Pumping – 4,000 systems  Septic Connections – 20 systems  Tracking game plan by late 2021	Local municipalities, County, pumping entities	All areas outside public sewerage areas	On-going with game plan late 2021	Initial analysis reveals approximately 16,000 septic systems  Build inventory in conjunction with catchment targeting inventory  Assume portion of systems are operating per BMP definition(s) and to be captured as part of the reconciliation process	County, local municipalities, local engineers, SEOs			Game plan for tracking (late 2021) 537 plan updates		Possibly for tracking platform (TBD after game plan develop.)						

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Resources <u>Needed</u>								Review Checklist Comments
			•				Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
4.5	Catchment Targeting Initiative (tied to P.I. 1 Catchment Targeting Initiative Action 1.1 for municipal- specific details)	See P.I. 1 for more info	All Action Teams (Ag AT, Data Mgmt AT, Catchment Targeting AT, Muni AT, Stream and Natural Resources AT), SCCD, watershed groups, local municipalities, BerskNature, Eastern PA AMC	Prioritized Catchments (TBD)	Late 2021 Launch, long- term timelines tied to P.I. 1	Partner with Catchment Targeting AT during catchment prioritization efforts to identify individual catchment needs, BMP probabilities, BMP reconciliation, etc.	County GIS, Practice Keeper (PK)  Catchment Management Database (CMD)						See P.I. 1 for more information		
4.6	BMP Reporting Reconciliation (tied to P.I. 5 Data Management Action 5.3 for municipal- specific details)		All Action teams (Ag AT, Muni AT, Data Mgmt AT, Catchment Targeting AT, Streams and Natural Resources AT, local municipalities	All areas (Catchment targeting analyses will result in 2 data tables: 1) conservation needs/opps., and 2) existing BMPs for reconciliation	Launch late 2021 (in conjunction with Action 4.5)	Partner with Data Management AT for reconciliation of BMP reporting numbers (primarily through catchment targeting)  All performance targets assume significant level of uncaptured BMPs in numbers.  Separate database may need to be considered for capturing all Ch. 102/ land development BMPs already in place*	County GIS, PK				Reference table or outline of Ch. 102/ land develop. BMPs data to be captured	DEP			

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>					Review Checklist Comments			
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
4.7	Existing Plans Alignment		Local municipalities, County, local watershed groups	All areas	Ongoing with inherent tie to Action 4.5	Ensure efforts do not conflict and/or align with other efforts  Existing plans for reference during alignment exercises for BMP implementation include the Comprehensive Plan, Open Space and Greenway Plan, and the Hazard Mitigation Plan at a minimum.  Developed Act 167 Plan(s) for all watersheds would provide ideal consolidated existing plans overlay platform*  Add applicable SB3 elements to upcoming Comp Plan update	Comp Plan, Hazard Mitigation Plan, Open Space and Greenway Plan  Local engineers/ consultants, County				Countywide Act 167 Plan		Countywide Act 167 plan develop.: \$150,000	DEP	

### 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.

#### Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Action Description Performance Responsible Geographic Expected **Potential Review Checklist** Target(s) Party(ies) Location **Timeline Implementation** Comments **Resources Available Resources Needed** and **Challenges or Partnerships** Recommendations **Technical Financial Technical Financial** Suggested Source Source Suggested Source Source

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 though 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).