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 Description **Potential Review Checklist** Action Performance Responsible Geographic Expected Target(s) Party(ies) Location **Timeline Implementation Comments Resources Available Resources Needed Challenges or** and **Partnerships** Recommendations **Technical Financial Technical** Suggested **Financial** Suggested Source Source Source Source Priority Initiative 4: Municipal Chester Where basin Late 2021 Establish retrofits Local NFWF, Growing County and launch program that can be engineers/ Conservation landowner mimicked across the consultants, Greener District receptiveness watershed CCWRA, (GG) (CCCD), coincide Chester (assuming **Basin Retrofits** Chester A basin called out in spring 2022 **County Parks** 4.1 Pilot Project an MS4 PRP could availability) **County Water** and Preserv. Resources serve as the pilot Authority **HOA Open** (CCWRA) Space GIS layer Advanced IDD&E CCWRA, local MS4 regulated Ongoing Identify needs and DEP, local IDD&E Control - 3,000 municipalities, assistance channels engineers/ public works Environmental for compliant MS4 consultants, acres treated training, Minimum Advisory programs (specifically EPA mock Control Measure Committees MCM #3 for Illicit inspections (MCM) 3 4.2 (EACs) Discharge Detection & (IDD&E) Elimination (IDD&E) Compliance Assistance education/outreach channels) **NFWF** TBD Circuit Rider CCWRA, MS4 muni. Ongoing PCSM BMPs inventory Local Centralized \$75,000/yr: hired/secured Environ. once funding and verification engineers/ database capture (one full time Advisory secured processes consultants, platform BMPs, build staff equivalent) Committees (ideally County DCIS inventory Qualified and/or verify (EACs), local launch spring If parameters for (Dept. of 2022) municipalities, capture of Computer and individual USGS Oxford Reg. underreported BMPs Info. Services) that is inventory Planning are known, process familiar with and conduct Comm. can commence at a Env. Finance MS4 long-term MS4 Circuit 4.3 limited version Center (EFC) verification program Rider through catchment and Chester processes targeting under P.I. 1 County and Action 4.5 Assist with coordinating and outreach efforts for next MS4 permit cycle

in 2023

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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
4.4	Existing BMPs Needs	Database of implemented stormwater BMPs by 2025	CCCD, CCWRA, local municipalities, EACs, County DCIS, County Planning (CCPC)	All areas	Ongoing, but follows initial circuit rider and BMP reporting reconciliation efforts	Potential HOA assistance entity Initiate with MS4 municipalities with intent to follow-up with non-MS4s (first step is BMPs dated to 2003) Result of BMP inventory generation, BMP reporting reconciliation, and initial verifications for the identification of BMPs requiring maintenance, rehabilitation, and similar.	County, CCPC, local engineers/ consultants, local maintenance contractors		NFWF, GG		Inventory of individual BMP needs (maint. needed, etc.) Potential HOA assistance entity MS4 GIS files		TBD (result of inventory and reconciliation processes) See Action 4.3 for Circuit Rider information		
4.5	Catchment Targeting Initiative	See Priority Initiative 1 for targets	Ag Action Team (AT), Data Management (DM) Action Team (AT), Catchment Targeting (CT) Action Team (AT), Muni Action Team (AT), watershed groups, local municipalities, Brandywine Conservancy, CCCD, CCWRA, EACs, CCPC	Prioritized Catchments (TBD)	Mid 2021 Launch with inherent tie to P.I. 1 (catchment targeting)	Partner with Catchment Targeting AT during catchment prioritization efforts to identify individual catchment needs, BMP probabilities, etc.					Centralized database platform (see P.I. 5)		See P.I. 1 for more information		

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4.6	BMP Reporting Reconciliation		Muni AT, Data Mgmt AT, Catchment Targeting AT	All areas (Catchment targeting analyses will result in 2 data tables: 1) conservation needs/opps., and 2) existing BMPs for reconciliation	Launch late 2021 with inherent tie to Action 4.5 (limited activities until reporting platform is known or the parameters at a minimum)	Partner with Data Management AT for reconciliation of BMP reporting numbers (primarily through catchment targeting) Receive back organized data USGS has requested for Ch. 102/land development BMPs; may require Data Mgmt. AT to re- organize data and information All performance targets assume significant level of uncaptured BMPs in numbers. Knowing parameters/ attributes that need captured for ultimate reporting would be ideal.*	Practice Keeper (PK) County Dept. of Computer and Info. Services (DCIS) EFC				Centralized database platform Circuit Rider MS4 reporting platform for Ch. 102/ PCSM BMPs		See Action 4.3 for more information		

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4.7	Existing Plans Alignment	Game plan by late 2021	Local municipalities, EACs, CCWRA, CCPC, CCCD	All areas	Ongoing with inherent tie to Action 4.5	Ensure efforts do not conflict and/or align with other efforts (e.g. county Act 167 plan) Game plan and coordination with Catchment Targeting AT (P.I. 1) for complete list of existing plans that need to encompassed by the process	CCWRA, Brandywine Conservancy Oxford regional plans inventory completed with NFWF funding				Potentially new GIS layers for certain plans or information				
4.8	PennDOT PRP Reductions		EACs, CCWRA, CCCD, local municipalities, Environ. Finance Center (EFC)	PennDOT MS4 areas	Ongoing with inherent tie to Action 4.5	Collaborative and joint project opportunities	Local engineers/ consultants, PennDOT								
4.9	Joint PRP Projects		Local municipalities, EACs, EFC, local watershed groups, Oxford Reg. Planning Comm.	MS4 regulated areas	Ongoing (differing PRP cycles amongst MS4s)	Foster collaborative arena for multimunicipal projects providing regional benefits through costeffective BMP implementation. Currently assuming this may be more applicable during the 2023-2027 permit cycle).	Local engineers/ consultants, Brandywine Conservancy MS4 PRPs EFC		NFWF, GG, CBT, PennVEST, American Rescue Plan Act (ARPA) Local Relief Fund, local municipal.						

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4.10	Stormwater BMP Implementation	Rate Reduction SWP Standards – 3,000 new acres treated Treatment SWP Standards – 89 new acres treated Wet Ponds and Wetlands – 50 new acres treated Infiltration Practices – 64 new acres treated Bioretention – 58new acres treated Bioswales – 25 new acres treated Vegetated Open Channels – 30 new acres treated Filtering Practices – 25 new acres treated Filtering Practices – 25 new acres treated Impervious Surface Reduction – 4 acres	Local municipalities, developers, CCCD, CCWRA, EACs, Oxford Reg. Comm., CCPC	All areas with emphasis provided towards prioritized catchments	Ongoing (timing tied to catchment analyses funding and Actions 4.5 and 4.6)	MS4 PRP projects to be reported via annual reports 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. BMP implementation values include projects outlined in PRPs (where available) Landowner resistance or buy-in	Local engineers/ designers, DEP, Stroud, CCWRA, Brandywine Conservancy, Penn State, EFC County DCIS data		Developers, local municipal., GG, NFWF, PennVEST, CBT				Capital Cost: ~\$TBD (after reconciliation and BMP rates revisions) Current assumptions are roughly 50%-70% of BMP values are already in place and uncaptured for reporting.		

	Phase 3 Wa	tershed Imple	mentation P	lan (WIP) Pla	anning and P	Progress Template									
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4.11	Urban Landscape	Conservation Landscaping — 100 total acres Urban Forest Planting — 20 new acres MS4 Tree Canopy — 10 new acres Urban Nutrient Management — 2,000 acres	CCCD, CCWRA, EACs, local municipalities, Brandywine Conservancy	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.* Landowner resistance or buy-in	ACB, CBF, DCNR, CCPC, CCWRA, Stroud, Brandywine Conservancy County DCIS		DCNR, Keystone, NFWF, GG, CBT, local municipal.				Capital Cost: ~\$45,000		
4.12	Septic Systems	Conventional Septic Denitrification – 3,000 systems Septic System Pumping – 6,000 systems	Local municipalities, CCWRA	All areas outside public sewage areas	On-going, with primary info capture and analysis in 2022 with developed game plan	Use County GIS/ Health Dept. information for septic systems tracking and convert to reportable data (capture of existing systems) Initial analysis reveals approximately 17,700 septic systems (currently assuming 50% compliant systems until further analysis in completed)	County DCIS, County Health Dept., local municipalities, CCPC				GIS support				

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.

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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 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).