

## 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		Financial	Suggested Source
<b>Priority Initiative 1: Agriculture</b>															
1.1	Nutrient Management Planning	Develop Recommendations and nutrient management planning including soil samples, manure analysis, and agronomy assistance.  BMPS's include Nutrient Management Core N, Core P, Placement, Timing, and Rate  <u>25 total sites per year</u>	PSU Extension, TCCD, Consultant	Agricultural lands and Hunting Clubs	2022- Creation of program with evaluation in 2025.	Funding for initial 3 years of program, landowner participation, and understanding of data importance.	Local agency educational materials and sampling kits  Consultant assistance	NRCS, PSU Extension, TCCD, Private consultants	Sampling Kits (\$12)	Private Landowner	Contracted Source for NMP analysis/recommendations  List of recommended contacts for analysis completion	Private Consultant willing to complete testing and recommendations for landowners in the county.	Dedicated funding to assist in management and development of this program.  \$60,000 for 1.1 – 1.1 a	Grants or State Agency funding  NRCS Conservation Technical Assistance Program	
1.1a	Soil Sampling Program	Develop Soil Sample Collection Program and Analysis – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties  Targeting Cowanesque watershed	2022-2025		Education Materials Soil Sampling	NRCS, TCCD, PSU Ext, Penn State analytical lab					\$30,000 per year	Growing Greener Education Grant	
	Manure Testing Program	Develop Manure Testing Program and Analysis – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties  Targeting Cowanesque watershed	2022-2025		Education Materials Manure testing Labs	PSU Ext, Private labs, Penn State analytical lab					\$10,000 per year	Growing Greener Education Grant	

	Agronomy Assistance/Analysis Program	Develop Agronomic Analysis Program – 25 sites per year	PSU Extension, TCCD, Consultant	Agricultural and Hunting properties. Targeting Cowanesque watershed.	2022-2025		Education Materials, Analysis	PSU Ext, Private consultant			Analysis	Private Consultant	\$20,000 per year	Growing Greener Education Grant	
1.2*	Reporting and Verification of Existing BMP's	Collect data and verify existing BMP's on operations.  Create and deploy Farmer Survey to collect private landowner data on existing BMP's.  <u>Report and verify 50 operations per year</u>	DEP, TCCD, NRCS	County	2021-2025	Time Capacity, Data Entry, Voluntarily Release of Records from Farmer (DEP issues, public knowledge), Confidentiality agreements, producer participation and resistance	BMP's and plans that were funding through agencies and grants are already known	SCC, PSU Extension, NRCS, TCCD, DEP	N/A	N/A	Dedicated staff (1-2) or contracted staff to complete entry and inspections	Staff at a local agency	Dedicated funding to this position  \$80,000 for position funding per year.	State funds	
1.3	Existing BMP Maintenance Program	Assist producers with maintenance of existing BMPs to keep them functioning, through cost-share labor or funding.  <u>5-10 farms a year</u>	TCCD, NRCS, PSU Extension	Agricultural Producers	2023-ongoing	Funding and Producer participation, Identifying BMPS that need maintenance	Technical assistance	NRCS, PSU Extension, Consultants, SCC	Farmer maintenance	Private funds	BMP maintenance and labor	Private contractors, community service	Funding source to complete maintenance on existing BMP's  \$150,000 per year	Growing Greener  DCED Watershed Restoration and Protection Program WRPP  DCNR Riparian Forest Buffer Grants	
1.4	Riparian Buffer and Stream Fencing	Implement Stream fencing and riparian buffer on crop and pasture lands.  <u>Implement or verify 750 acres per year</u>	TCCD, NRCS, PSU Extension	Streams on Agricultural Properties	2021-ongoing	Funding and Producer participation, implementation of maintenance	Technical documents, design, and layout	NRCS, PSU Extension, Consultants, SCC	Plantings and materials	K-10, DCNR, NRCS	Labor to plant/install	Volunteers, community service	Funding Source, Stream fencing costs  Stream bank fencing \$4 per linear foot	State and Federal Funding  DCNR Riparian Forest Buffer Grants  DCED Watershed Restoration and	

													\$ 120 Tree cost, per tree,  \$500,000 per year	Protection Program WRPP	
<b>1.5</b>	Operation Transition Planning Assistance	Assist farmers that are transitioning operation types with the necessary BMP and management practices  Number of operations are dependent on current farming practices.  <u>5-10 farms per year</u>	TCCD, NRCS, PSU Extension, PFB	Agricultural operations	2023-2025	Funding and Producer Participation, Identifying who is transitioning	Technical farming assistance	PFB, NRCS, PSU Extension, Consultants, SCC	N/A	N/A	Education, Planning, operational management assistance, plan updates	TCCD, NRCS, PFB, Private consultant	Cost associated with operation transition and planning  \$10,000 per operation	State and Federal Funding,	
<b>1.6</b>	Cost Share Liming Program	Provide a cost sharing program and education to increase liming practices and increase overall pH on <u>5000 acres</u> of farmland per year.  Soil testing analysis to determine eligibility.	TCCD, NRCS, PSU Extension	Agricultural Community and Hunting Clubs	2022-ongoing	Funding, Adoptees, implementation of education programs	Soil Sampling Kit (\$15 per sample kit)	TCCD, NRCS	Soil Sampling Kits	Landowner /private	Liming education and application assistance	TCCD, rentable equipment for private landowner, or contract work	Cost for lime and application  \$55,000 per year	State funding, cost share program	
<b>1.7</b>	Agricultural Lands Flooding Protection	Protect Agricultural lands from extensive erosion from flooding by	TCCD, NRCS, PSU Extension, SCC, TU	Agricultural lands with historical flooding issues	2022-2025	Funding, Landowner resistance	Guidance and Planning	NRCS, PFB	Floodway protection	North Central Land Conservancy	Identification of flood protection areas,	TCCD, NRCS	Funding for BMP implementation and	DCED Flood Mitigation Program FMP,	

		protecting streams banks and floodplain connection  <u>Complete projects on 100 acres of agricultural floodplain lands per year</u>									protecting areas		floodway protection  \$150,000 per year	Growing Greener, NFWF, Chesapeake Bay	
<b>1.7a</b>	Floodplain Restoration and Stream Protection	Implement Floodplain restoration and stream bank stabilization and protection projects for agricultural areas.  <u>1500 linear feet of stream per year</u>	TCCD, NRCS, PSU Extension, TU	Agricultural lands	2022-2025	Funding and Producer participation	Technical guidance documents, Existing Restoration projects	NRCS, PSU Extension, Consultants, SCC, Trout Unlimited	Cost of funding to complete projects	Growing greener, NRCS, TU	Planning assistance, identification of project areas, restoration and protection labor	Private consultants, contractors, TCCD	Cost associated with restoration and protection activities.  \$500,000 per year	DCED Watershed Restoration and Protection Program WRPP,  State and Federal Funding,  DCED Flood Mitigation Program FMP  Growing Greener, NFWF, Chesapeake Bay	
<b>1.8</b>	Farm Operational Improvements	Overall Farm operational BMP implementation program to improve runoff, erosion, functionality, and land preservation.  <u>5-10 operations per year</u>	TCCD, NRCS, PSU Extension, SCC	County	2022-2025	Funding, Permitting	Education, Technical assistance, and documents	NRCS, TCCD, PSU Extension	Cost of operational improvements	NRCS, Growing greener	Planning, permitting	Contractors, consultants	Cost of operational improvements and BMP implementation.  \$300,000 per year	State funding, Growing Greener  DCED Watershed Restoration and Protection Program WRPP	
<b>1.8a</b>	Field Road Access Improvement	Upgrade and Maintain access to fields for better access to encourage	TCCD, NRCS, PSU Extension, SCC	County	2022-2025	Cost of access improvement and landowner participation	Education and Technical assistance	DGLVR	Field road improvements	Private funding	Field Road upgrade plans and permits	Contractors, consultants	Cost of field road upgrades and permits	NRCS, Growing Greener	Operation and maintenance \$ (1.3)

		opportunities to maintain fields and spread manure.  <u>10 miles of field roads per year</u>											\$150,000 per year		
<b>1.8b</b>	Heavy use area BMP implementation.	Implement heavy use area BMP's to protect erosion and runoff.  <u>Increase current workload by 5 projects per year</u>	TCCD, NRCS, PSU Extension, SCC	County	2022-2025	Cost of BMP implementation and landowner participation	Education and technical assistance	NRCS	BMP implementation	Private funding	Heavy Use area plans and permits	Contractors, consultants	Cost of heavy use BMP implementation  \$800,000	NFWF, State funding, Growing Greener	
<b>1.9</b>	Partnership-Potter/Tioga County Cowanesque Watershed Agricultural BMP Upgrades	Implement Agricultural BMP's across Tioga and Potter County to assist the Cowanesque Watershed as a whole.  <u>10 agricultural projects within the watershed a year</u>	TCCD, PCCD	Tioga and Potter County, Cowanesque Watershed	2023-2025	Funding and farmer participation within the watershed	Engineering assistance, Existing BMP programs	PCCD, TCCD, NRCS, Cowanesque Valley Watershed Association	Cost sharing programs	NRCS, PACD, DEP	Planning, outreach, and Implementation	Contractors, consultants, private	Cost associated with design permitting, and construction of BMP's and programs  \$250,000 total per year (\$125,000 per county)	ACT13, DCNR Riparian Buffer Grant Growing Greener, NFWF, DCED Flood Mitigation Program FMP  DCED Watershed Restoration and Protection Program WRPP	

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