

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	

Priority Initiative 3: Agriculture

Actions in color print indicate additional results which could be generated if additional corresponding resources are provided.

3.1	Establish funding/staff to assist in data collection and accounting (i.e. Practice Keeper Entry)	Enter an average of 7 Nutrient Management Plans per year between 2022 and 2025. Expected to result in the identification of 50 new acres riparian buffer, 1000 new acres of no-till and 2000 new acres of cover crops by end of 2025. Verify the existence of BMPs already reported in Practice Keeper and cross reference to required BMP re-verification / re-entry timelines Review 244 previously entered inspections encompassing 7,962.41 acres to determine if all BMPs from those inspections have been entered into Practice Keeper. Expected to result in 2,000 new acres of no-till, 2000 new acres of cover crops, 2000 new acres Core N and 2000 new acres Core P	Clinton County CD	County-wide	2022-2025 and beyond	Ensures credit of already implemented BMPs. Until 2014-2015, Ag erosion control and manure management plans were not entered into PK. Private sector ag plans are only shared with the District during an inspection or complaint investigation.	District's two (2) Agricultural Resource Conservationists	Clinton County CD	Act 38 funding via State Conservation Commission Chesapeake Bay Technician Funding via DEP	SCC, DEP	Temporary staff for database mining (1 FTE for 26 weeks) Intern		\$22,000 for additional staffing.		
3.2	Help farmers and operators to be in compliance with state planning requirements: updated and fully	Create a 4-year funding program to fund 100% of the funding for manure management plans to improve farming reporting.	Clinton County CD, DEP, NRCS, private sector ag planners and consultants.	Loganton catchment and other priority areas.	2022-2025 and beyond	Aligns inspection work in areas (and on priority parcels) where funding for BMPs is known to exist for 2022-2025 with lower priority areas being addressed after 2025.	District's two (2) Agricultural Resource Conservationists	Clinton County CD	Chesapeake Bay Technician Funding via DEP	DEP, SCC	Funding for Ag Planners to provide plan writing and plan update services and	Private Sector Ag Planners and consultants	\$12,500 per year for plan costs	Chesapeake Bay Foundation, Growing Greener	

	implemented Ag E&S, Manure and /or Nutrient Management Plans	<p>25 farm inspections per year (100 new entered into PK by 2025).</p> <p>Estimated to result in 50 new Ag E&S plans and 50 new manure management plans entered into PK by 2025.</p> <p>Estimated to result in 1,000 acres / year being inspected between 2022 and 2025 (4,000 total acres).</p> <p>2000 new Core N acres. 2000 new Core P acres.</p> <p>NOTE: Number of inspections, plans and acres could be doubled with additional inspector</p>				<p>Second round of Bay inspections may turn up significant non-compliance with plans.</p> <p>Resistance from farmers to expend funds to update existing, outdated plans.</p> <p>Lack of Technical assistance to support agriculture planning and implementation.</p>					<p>spell out BMPs</p> <p>1 FTE per year for four years to help conduct inspections and specify BMPs</p>	<p>\$40,000 per year to increase inspection capacity</p>		
3.3	Implement a survey process for capturing current agricultural best management practices that are unreported and to re-verify the existence of plans prior to the implementation of Practice Keeper.	Wide scale survey to be completed by 2025	Clinton CD	County-wide	2022-2025 and beyond	<p>Farmer knowledge of the location and contents of their plans.</p> <p>Farmer resistance.</p> <p>We have heard from stakeholders that they feel they have answered surveys in the past and shared plans but are not certain what was done with the data.</p> <p>Ensures credit of already implemented BMPs.</p> <p>Potential time and resource limitations for plan entry.</p>	District's two (2) Agricultural Resource Conservationists	Chesapeake Bay Technician Funding via DEP	DEP	<p>Temporary staff 1 FTE for 26 weeks) for survey design, distribution and entry of data (BMPs) resulting from the survey.</p> <p>Survey Distribution (mailing costs)</p>	<p>\$9,750 for additional staffing plus \$2,000 for mailing.</p>	DEP Growing Greener		
3.4	Continue promotion of no-till farming practices and cover cropping.	<p>Continue to offer and promote no-till drill program.</p> <p>Incentivize the use of cover crops by initiating a "cover crop demonstration plot"</p>	Clinton CD	County-wide	2021-2025	<p>Neither DEP nor will Capital RC&D will currently share what no-till and cover cropping is currently uploaded into PK nor will Capital RC&D share transect</p>	Two (2) no-till drills (owned by District) and eight (8) farming	Chesapeake Bay Technician Funding via DEP		<p>Temporary staff (1 FTE for 16 weeks – 8 weeks in March and April and 8</p>	<p>\$12,000 per year staffing for 4 years.</p> <p>\$10,000 per year for the</p>	PACD Adult Education Non-Point Source Education Grant.		

		<p>initiative where Clinton County CD resources (no-till drill, seed, staff time) are used to seed 10 acres of non-cover cropped land in priority areas on the farms of potential peer-to-peer “influencers.”</p> <p>Increase conservation tillage by (100 acres per year)</p> <p>Increase cover cropping by (100 acres per year)</p> <p>By 2025, tillage and cover crop rates would be at follows: 10,000 acres per year high residue (4% increase from current), 3,400 acres conservation tillage (13% increase from current) 6,500 acres of traditional cover crops (7% from current).</p>				<p>survey routes. This results in significant duplication of effort by District staff, an additional burden on farmers and makes it impossible to effectively target outreach.</p> <p>Requires “seed” money to support / promote cover cropping and no-till demonstrations and initiatives.</p> <p>Encourage the private purchase of conservation equipment (no-till drills, manure injection equipment) and implementation of BMPs such as cover cropping, stream fencing, etc. by publicizing the much under-utilized REAP program.</p>	<p>demonstration lots. District currently rents no-till drills for 350 acres of no-till planting per year.</p> <p>District’s two (2) Agricultural Resource Conservationists</p>				<p>weeks in August and September) to deliver drill, promote program.</p>	<p>purchase of multi-species cover crop seeds that can be no-till planted using the District’s no-till drills.</p>	<p>Private Sector Donation / Sponsorship</p> <p>DEP Growing Greener</p>	
3.5	<p>Farmer Education:</p> <p>‘Promote and assist in implementation of Soil Health Practices/ BMPs in priority areas</p>	<p>Conduct a REAP workshop for local farmers to promote tax incentives for the purchase of conservation equipment and cover-cropping via the REAP program.</p> <p>Educate farmers on the private carbon credit market. This is a potential to find funding to implement BMPs.</p> <p>Conduct two (2) farm outreach town halls that include presentations from farmers currently utilizing cover cropping and no-till and include visits to farms where soil health practices have been adopted.</p>	<p>Clinton County CD, the Stroud Center, Penn State Extension, local farmers</p>	<p>Priority areas.</p>	<p>2022 and beyond (fall and winter of each year)</p>	<p>Encourage the purchase of conservation equipment (no-till drills, manure injection equipment) and implementation of BMPs such as cover cropping, stream fencing, etc. by publicizing the much under-utilized REAP program.</p> <p>Farmer resistance or buy-in.</p>	<p>District’s two (2) Agricultural Resource Conservationists</p>	<p>Chesapeake Bay Technician Funding via DEP</p>				<p>\$4,000 per year</p>	<p>PACD Adult Education Non-Point Source Education Grant.</p> <p>Private Sector Donation / Sponsorship.</p>	

		Host / facilitate farm Decision-maker trips to showcase BMPs that work.												
3.6	Pilot Program to move Manure from ag communities to AMD lands	<p>Take excess manure and FPR and apply to degraded land on reclaimed AMD</p> <p>Provide nutrients to nutrient poor soils in hopes of encouraging native plant growth.</p> <p>Target these areas for re-forestation and the planting of pollinator habitat.</p> <p>Reduce nutrients in nutrient rich areas of the county such as Fishing Creek.</p>	Clinton County CD,	Manure will be going to Tangascootac Region	2021-2025	<p>Will need to locate certified manure hauler.</p> <p>Lack of identified funding</p> <p>Lack of staffing.</p>	Clinton CD, NRCS, BAMR				Short-term or temporary hire /manure hauling fees	<p>\$40,000 per year for an additional staff (1 FTE) person.</p> <p>\$60,000 per year to cover the cost of having a broker deliver the manure.</p>	NRCS, DEP GG, Private Foundation	
3.7	Agricultural Preservation	<p>Put 3 new farms into the ag preservation program between 2021 and 2025 resulting in 200 acres of “preserved” land.</p> <p>With additional funding could place 9 farms into the ag preservation program between 2021 and 2025 resulting in 600 acres of “preserved” land.</p> <p>Document that the 2,625 acres of “preserved” land already enrolled in the Ag Preservation program are identified and have received proper credit in the Bay model.</p>	Clinton County Planning Office, Chief Clerk’s Office, Clinton County CD		2021-2025	<p>Lack of economic incentives; Insufficient resources for data collection, design, implementation and verification.</p> <p>Conservation District staffing and expertise shortfalls.</p>	Clinton County CD		Federal/State /local agency grants/ programs, private grants. Ag Land Preservation Board and Farm/Natural Land Trust			<p>\$5,000 in salary cost for County CD to absorb the duties of the Ag Preservation Program.</p> <p>Would need an estimated \$500,000 per year annually to meet current Ag Preservation Demand.</p>	Clinton County	
3.8	Outreach and Partnership Building	Identify messaging that is more effective with the agricultural community (e.g.	Clinton County CD, Watershed Associations,	Clinton County	Priority Areas	Large numbers of potential landowners to contact.					Term or temporary hire	\$40,000 per year for an additional outreach and		

		herd health, building legacy options for families, economics, retention of soil and nutrients, cost savings) to foster enhanced collaboration in BMP implementation.	local stakeholders.			Current staffing level is insufficient for rapid relationship building with numerous partners. Funding for additional staff. Plain Sect are traditionally nervous about govt funding.						partnership building staff (1 FTE) person.			
3.9	Establish a real-time stream monitoring program	Establish the ability to deploy real-time stream monitoring equipment that will establish local water quality trends, point out areas of impairment, identify hotspots and priority locations, and, therefore, point the way to areas where BMP implementation may pay the most dividends. In the future, this system should indicate/verify countywide progress toward WIP 3 goals.	Clinton County CD, DEP, EPA, SRBC & USGS, TU.	Clinton County	2023	Funding; Sustainability; Data storage and analysis. DEP/EPA accept third party monitoring data and include in the Chesapeake Bay Model Work with Chesapeake Conservancy to gather data from auto samplers	Technical expertise	USGS/ SRBC			County Technical/ Administrative Staff Monitoring Equipment SRBC/USGS contracting	Clinton County CD/USGS/ SRBC	Funding for a staff position (1 FTE); monitoring equipment; & SRBC/USGS contracts (\$450,000 for five years)	WPC mini-grant for WQ monitoring PA American Water	
3.10	Provide data transparency for practitioners who use Practice Keeper and data transparency relating to DEP's annual Progress Run dataset development and data input.	Add DEP data inputs to Practice Keeper so that, spatially, Conservation District staff can see the plans and BMPs that are already in the system above and beyond those that they input in-house.	DEP	Statewide	2022 and beyond	Essential in maximizing use of available resources by minimizing redundancy and duplication of effort.					More dedicated staff to assist coordination and implementation of CAP/ WIP 3	Dedicated DEP WIP Implementation staff to lead integrated efforts.		DEP	
TOTAL COSTS BEYOND EXISTING STAFF AND RESOURCES NEEDED TO IMPLEMENT THE CAP											5.3 FTE Staff: \$759,750		Projects: \$2,798,000		