				Green - action	nas been comp	leted or is moving forward as	planned <u>Yel</u>	ow - action ha	s encountered minor obstacles	Red - action has not been taken or has encountered a serious barrier	
			Responsible	Geographic	Expected	Potential Implementation		s <u>Available</u>	Resources <u>Needed</u>	Annual Progress to Date	Reason for Change
#	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical Financial	(2021 to 2024)	to Action Item
ty I	Initiative 1: County Pro	· · · · · · · · · · · · · · · · · · ·									
	' '		CCPC, growth boundary			Educating municipalities,	Education,	N/A	Local planning N/A	2024 - Both Centre Regional Planning Agency and Centre County Planning Office are	
	•	,	municipalities	Patton, State		Updating local plans and	outreach, 1		coordination	at full staff capacity. CRPA is implementing portions of their Climate Action and	
	-	Implementation as part of Centre Region Comp Plan		College		ordinances, Growth areas not consistent with Census	CCPD staff person			Adaptation Plan while CCPCDO will be initiating a countywide comp plan update with revised future land use elements.	
		(2013)		Borough, College		Urbanized Areas and their	person				
ľ		(2013)		Township,		contributing storm sewersheds					
				Harris Township						2023- No progress to date. Municipalities are strategizing ways to incorporate utility	
		Ensure that growth								grade solar infrastructure into their plans which will have bearing on this Action	
		activities address existing								Item.	
		water quality impairments									
		through stormwater BMP								2022 - COG is working on an Implementation Strategy for the Centre Region Climate	
		implementation already required by local ordinance								Action and Adaptation Plan (https://www.crcog.net/caap) that will identify a specific roadmap of the actions needed in the next 3- 5 years to put us on the path for	
		required by local ordinance								meeting our goal of GHG emissions reduction and climate adaptation. This will	
										include specific projects related to land management and clean healthy water -	
										probably more on the policy side. Centre Region COG will be working with	
										community stakeholders and partners in the coming year.	
			Moshannon Creek		•	Majority of Association's work	Field work,	N/A	Project design Assume \$500k	2024 - The CCCD has been collaborating with Trout Unlimited and DEP's BAMR to	
						has occurred in Clearfield				address areas of concern within the Beech Creek watershed, as well as working to	
	and actions (PHASE 1 = 2003, PHASE 2 IMPLEMENTATION =	Impairments in Moshannon Creek and Beech Creek	DEP Office of Mining	Watershed, Phillipsburg,		County, drought can make sampling inconsistent, additiona	al Project		project	identify any unknown AMD sources. The 105D discharge into Sandy Run contributes the highest metal concentrations and acidity loadings into Beech Creek, and the	
	AG, TELECOM, LANDUSE)	Creek and beech creek		Rush Township,		sampling network and BMP	identification			landowner is willing to work with the CCCD, TU, and BAMR to continue sampling	
,		Explore DEP Pilot Project for		Show Shoe		implementation with volunteers				efforts and work towards the placement of a passive treatment system on his	
		Chesapeake Bay Program		Township,		only, EPA acceptance of results	-			property. Penn State professors are interested in student projects within the Beech	
		Nutrient Reduction Credit		Burnside		where correlations may be				Creek watershed as well, which could be a great opportunity for mapping existing	
				Township		drawn (data may be inconclusiv	re			AMD BMP's in the watershed. We have been collaborating with the Moshannon	
						on the short-term)				Creek Watershed Association in their AMD water quality sampling efforts. A lot of	
										their sampling efforts over the past couple of years are within Centre County. Also, the MCWA published a Coldwater conservation plan for the Moshannon Creek	
										watershed in 2021 that highlighted the areas of concern in the watershed. DEP's	
										BAMR is in the early stages of addressing these areas, starting in the headwaters of	
										Moshannon Creek with the Roup Run discharges (MC-7, MC-8, MC-8.5). Datashed	
										also has a map the AMD treatment areas in Pennsylvania, which can help with any	
										mapping efforts.	
										2023 - Chesapeake Bay Scientific and Technical Advisory Committee (STAC) is	
										undertaking a technical review of AMD stream restoration and nitrogen processing. Future pilot project nutrient reduction planning is on hold until the STAC technical	
										review is complete because it will guide the scope of any pilot project.	
										2022 - Funding applied for: PA Council Trout Unlimited Technical Assistance Grant,	
/	Advance local comprehensive	An annual review of the	Centre Hall Borough,	Centre Hall,	1-2 years	Reinforcing the municipal role ir	n Educational	Minimal for	N/A N/A	2024 - CCPCDO additional staff hired so revisiting this item in 2025 or beyond is	
-	planning efforts	document and	Centre Hall Water	Millheim, Penn		coordinating with the water	flyer forms	printing,		more feasible.	
		setting/fulfilling 1 goal.	Authority	Township,		authorities to perform education	n and activities	postage,			
	Penns Valley, 2006 –			Potter		and outreach.	lists.	website		2023- No progress to date. CCPD staffing capacity needs filled to focus on Penns	
		Partner with NRCS to		Township		Recommendations include		maintenance		Valley. CCPD hopes to fill required position to advance this initiative in 2024.	
'		determine eligibility of improvements regarding				putting SWP plans on the municipal websites and conside	ar l	(\$250)		2022 - No update.	
		source water protection and				annual/bi-annual joint meetings					
		the 2018 Farm Bill				and informational mailings to	Coordination			2021 - The Penns Valley Regional Planning Commission is gaining traction on	
						property owners who are in	of meetings			completing the regional comp plan update and hosted a joint water systems	
						proximity to Zone 1 (well heads)). and continued			operators' meeting in July 2021. The outcome of the meeting was to foster better	
						Source water projection is	education.			communication and thus coordination between the water systems to address	
						relevant to Chesapeake Bay				operational issues.	
						pollutant load reductions				Euture meetings may include the source water protection discussion to a type a this	
						because reducing pollution to groundwater reduces discharges				Future meetings may include the source water protection discussion to advance this initiative.	
						to local streams, while					
						contributing to the Bay goals					
						and protecting local drinking					
						water sources.					

		1	-		1	pleted or is moving forward as	· · · · · · · · · · · · · · · · · · ·		as encountered minor obstacles	
			Responsible	Geographic	Expected	Potential Implementation		s <u>Available</u>	Resources <u>Needed</u>	Annual Progress to Date Reason for Change
n #	•	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical Financial	(2021 to 2024) to Action Item
D	Advance local comprehensive	Not set in comp plan	Gregg Twp, Millheim		5-10 years	Original discussions stemmed	CRS program	N/A	Flood N/A	2024 - The Centre County MPO is considering submission of a PROTECT grant for
	planning efforts		Boro, Penn Township,	responsible		from landowner concerns	guides		elevation	flood study however, CRS has not been a key point discussed.
			Penns Valley	party		regarding flooding and flood			certificates for	
	Penns Valley, update –		Conservation	municipalities		mitigation techniques. FEMA's			program entry	2023- No progress to date. CCPD staffing capacity needs filled to focus on Penns
	Facilitate efforts to minimize		Association			Community Rating System (CRS))			Valley. CCPD hopes to fill required position to advance this initiative in 2024.
	flood impacts					was offered as a program				
						solution but municipalities				2022 - No update.
						opted not to participate citing				
						lack of administrative capacity.			Administrative	2021 - The administrative capacity is not yet in place and the conversations have not
		As outreach occurs in Penns				CRS includes incentives for			capacity	occurred. However, the implementation timeline is far enough out that this item can
		Valley, be mindful of this				adopting/ enforcing higher				be reviewed in future progress updates.
		need and be on the lookout				floodplain development				
		for opportunity to advance				standards. Flood mitigation is				
		the effort				relevant to Chesapeake Bay				
						pollutant load reductions				
						because stormwater controls fo	or			
						development are not designed				
						to capture pollutants from				
						storms >around 2". Flood				
						controls can, if considered in				
						design and maintained, capture				
						pollution.				
-1	Advance local comprehensive	Not set in comp plan	Municipalities,	Region-wide on	5-10 years	No set means of evaluation	Base mapping	N/A	Planning and 2023- No	2024- No update, now that staffing is back to capacity, time can be spent on this
1	planning efforts		Conservation District,	agricultural	5 10 years	outlined in comp plan and	identification;		construction progress to	item.
			Chesapeake Bay	lands and		landowners' volunteering to	landowner		guidance/stan date. CCPD	
	Nittany Valley, 2004 –		Foundation, Pheasants			plant riparian buffers unlikely.	outreach; on		0	/ 2023- No progress to date. CCPD staffing capacity needs filled to focus on Nittany
	Evaluate areas to establish		Forever, National Trout	developed land		Adopting ordinances not likely	the ground			Valley. CCPD hopes to fill required position to advance this initiative in 2024.
	riparian buffers to stabilize		Unlimited			on a regional scale but may	riparian		focus on Nittany	
	stream banks and limit	Utilize Chesapeake	Ommitted			require a pilot project in a	project		Valley. CCPD	2022 - Buffer gaps are mapped by Chesapeake Conservancy and can be utilized for
		Conservancy data set to				willing municipality to	execution		hopes to fill	project development/educational needs that support this goal
		identify buffer gap project				demonstrate success.	execution		required	project development/educational needs that support this goal
		opportunities (2021)				demonstrate success.			position to	2021 - The Nittany Valley's concentration is on public safety issues and moving into
		opportunities (2021)							advance this	Hazard Mitigation Plan goals. However, the implementation timeline is far enough
									initiative in	out that this item can be reviewed in future progress updates.
									2024.	out that this item can be reviewed in future progress updates.
									2024.	
									2022 Buffor	
-2	Advance local comprehensive	Not set in comp plan	Municipality, Centre		5-10 years	With no public water system thi		N/A	Guidance/stan Assume	2024 - No progress to date.
	planning efforts		County Planning Office	Township		would take the place of the	in the form of		dards \$300,000	
						traditional source water	an ordinance		planning cost	2023- No progress to date. CCPD staffing capacity needs to filled to focus on Nittany
	Nittany Valley, 2004 –					protection plan.	vs. plan			Valley. CCPD hopes to fill required position to advance this initiative in 2024.
	Implement a well									
	head/borehole protection for	Should outreach occur in								2022- No update.
	water wells	Nittany Valley, be mindful o	f							
		this need and be on the								2021 - The Nittany Valley's concentration is on public safety issues and moving into
		lookout for opportunity to								Hazard Mitigation Plan goals. However, the implementation timeline is far enough
		advance the effort								out that this item can be reviewed in future progress updates.
3	Advance local comprehensive	Complete a SWP for Walker	Municipality, Water-	Walker-	1-2 years	The Association structure vs.		N/A	N/A Assume-	2022 - Buffer gaps are mapped by Chesapeake Conservancy and can be utilized for 2022: Funding for source water protection plans are not available and local infras
5	planning efforts	Twp. Water Association	Association, DEP,	Township	, cars	Authority structure has proven-	discussion-		\$300,000	project development/educational needs that support this goal.
			Consultant			to be problematic for both DEP	with township:]	planning cost	
	Nittany Valley, 2004 –		consultant			technical and financial	consultant]	pranning cost	
	Participate in source water					assistance. The water system ha				
						assistance. The water system ha	as <mark>unven plan.</mark>			
	protection planning					· ·				
		2021 – meet with Walker				years and is in need of expensive	e			
		Township and Water				repairs. The township should				
		Association to facilitate				discuss the feasibility of taking				
		discussion and identify if a				over the system under an-				
		feasibility study should be conducted				authority and complete a SWP.				
					-	-	-		-	

						2024 Phase 3 Wat	tershed Im	plementati	on Plan (W	IP) Milestone	e Report – CENTRE COUNTY	
					1	pleted or is moving forward as	·			I minor obstacles		
Action #	Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resource Technical	es <u>Available</u> Financial	Resource Technical	ces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2024)	Reason for Change to Action Item
1.10E-04	Advance Centre Region Climate Action and Adaption Plan	Participate in the- development of "Clean- Healthy Water" goals	Centre Region Planning- Agency, Council of Governments Climate- Action and Adaptation- Technical Advisory- Group, Centre County- municipalities with- Climate Action Plans	Centre Region	Ongoing	Connect our plans in meaningful ways so that climate action and local water quality goals can- mutually benefit		N/A	N/A	N/A		Limited anticipated connections between now and 2025.
1.1F -1		Bi-annual review of plan and joint meeting	i Milesburg Borough and Milesburg Borough Water Authority; Boggs Township and PA American Water; Bellefonte Borough/Authority	Within the Zone 1 and Zone 2	P 1-2 years	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach. Recommendations include putting SWP plans on the municipal websites and consider annual/bi-annual joint meetings and informational mailings to property owners who are in proximity to Zone 1 (well heads).	flyer forms and activities lists. Coordination of meetings	website maintenance (\$250)	N/A	Assume \$300,000 planning cost	 2024 - Elected Officials and Authority Board member changes will be a challenge in coordinating this effort. 2023 - CCPD continues to work with Milesburg/Boggs to update their plan. CCPD staffing capacity needs filled to focus on these municipalities. CCPD hopes to fill required position to advance this initiative in 2024. 2022 - Planning staff attending Spring Creek Watershed meetings to gage more about implementation of the Phase 3 component. Some consideration may be given from Boggs to explore a well head protection overlay ordinance however much education will be needed. 2021 - This goal drew some interest at June's comp plan team meeting and concerns about the extent of future development in the Spring Creek Watershed impacting the Big Spring aquifer were voiced. Team members anticipate future land swaps between the state and private developers that are at the aquifer's headwaters. The Milesburg Borough Water Authority routinely sends DEP reports to customers, so upon plan adoption, this could be a priority goal to launch implementation. 	
		One-time adoption of ordinance with enforcement contingent upon program cycle of inspection and tank pumping.	Boggs Township, SEO	Upper Boggs Township beyond public sewer extent	5 years	Public acceptance and public hearing meetings may be contentious given associated program fees needed for program sustainability. Landowner education will be needed to promote proper on- lot septic system maintenance and risks to groundwater resources. DEP involvement through Act 537 may act as a catalyst.	N/A	N/A	property owners with	budget, assume \$12,000 per year is recouped through permit fees	 2024 - Retain this a goal in and beyond 2025. CCPCDO staff capacity and solid working relationship with Boggs Township. 2023- CCPD continues to work with Milesburg/Boggs to update their plan. CCPD staffing capacity needs filled to focus on these municipalities. CCPD hopes to fill required position to advance this initiative in 2024. 2022 - Municipal staff changes at Boggs will likely delay this item 6-12 months. Solid examples of other programs available for consideration when time appropriate. 2021 - Boggs Township expressed concern about how to start up the program and what costs are associated. They seem open to discussing the program further in concept if the CCPCDO can provide some initial technical support and program start- up costs would be covered by grant. 	

						2024 Phase 3 Wat	tershed Imp	olementatio	on Plan (WI	P) Milestone	e Report – CENTRE COUNTY	
				Green - action	has been com	pleted or is moving forward as	planned Yel	low - action ha	s encountered	minor obstacles	s Red - action has not been taken or has encountered a serious barrier	
			Responsible	Geographic	Expected	Potential Implementation		s Available		es Needed	Annual Progress to Date Reason for Change	
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024) to Action Item	
1.2A	Implement County Hazard Mitigation Plan (2015, update kickoff JUNE 2020)	Improve flood prone areas with BMPs that also enhance water quality	CCPC, municipalities	Spring Mills (Penns, Sinking Creeks); Coburn (Penns, Elk, Pine Creeks)	2023-2025	Funding, land for BMPs	N/A	N/A	Planning, engineering, permitting, construction	\$5,000,000	 2024- WPC applied for funding with SRBC's Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG. 2023- An update is slated for 2024. All municipalities have been asked to adopt resolutions and contribute their projects to this initiative. 2022 - Spring Mills/Coburn listed similar 2021 HMP goals for flood protection measures. More feedback on community interest will be gained at the HMP annual review September 2022. 2021 - No discussions with Penns Valley regarding hazard mitigation have taken place to date, though this is not planned to start until 2023. 	
1.2B		with BMPs that also enhance water quality – address tributaries impaired by ag activities (Little Marsh Creek) and tributaries (Holt Run/Bald Eagle Creek)	Bald Eagle Creek	Boggs Twp (lower Bald Eagle and Spring Creek);	2021 – review flood-resulting pinch points and map out upstream BMP opportunities		Planning		Planning, engineering, permitting, construction for ultimate solution	\$5,000,000	2024-WPC applied for funding with SRBC'S Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG. 2023- An update is slated for 2024. All municipalities have been asked to adopt resolutions and contribute their projects to this initiative. 2022- Partnership between Centre County Conservation District and the Farmland Preservation program continued. One field meeting with Conservation District and the Farmland Preservation program continued. One field meeting with Conservation applicant which resulted in one additional conservation plan input into PracticeKeeper. Joint inspections will continue to take place on both preserved and applicant farms. 2021 - Centre County Conservation District established a partnership with the Farmland Preservation program in Centre County planning. County staff and HRG created and mailed a letter about the CAY to all 53 preserved farms in the region. To date, two field meetings with Conservation District established a partnership with the Farmland Preservation District staff and the Farmland Preservation coordinator occurred regarding new preserved easements, which resulted in two additional Ag E&S plans to be input into PracticeKeeper. No additional mailings are planned – working on in-person meetings with preserved farm owners to discuss conservation plans & BMPs on property. Currently at 4 field meetings for farmland preservation applications – resulted in two additional Ag E&S plans to be input into PracticeKeeper as well as two Conservation District will be assisting their office with plan development and implementation.	
1.3		Address climate change- storm intensities and- enhanced water quality- needs with respect to- development and- agriculture Create new model- stormwater ordinance that- would require/incentivize- additional protections for- streams (high quality and- impaired)	CCPC, municipal engineers, PSU		2021 – discuss interest to- pursue and- funding- opportunities	- Should local involvement exist,- funding for Plan update	Institutional knowledge	N/A	Act 167 Plan- Development		2022 - The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Centre County currently areas within the County with no Act 167 plan, but with new funding plans to explore opportunities to develop an Act 167 Plan. 2021 - The CAP team discussed the existing Act 167 Plans and resulting model ordinances with key local stakeholders. The results of the discussion is that the ordinances are working as expected for flood mitigation and water quality is addressed through calculations. MS4s will be updating their ordinances based on the new DEP model ordinance in line with their permit implementation schedule.	

						2024 Phase 3 Wat	ershed Im	olementati	on Plan (WI	P) Mileston	e Report – CENTRE COUNTY	
				Green - action	n has been com	pleted or is moving forward as p	olanned Yel	low - action ha	as encountered	minor obstacle	s Red - action has not been taken or has encountered a serious barrier	
			Responsible	Geographic	1	Potential Implementation	1	s Available		es <u>Needed</u>	Annual Progress to Date	Reason for Change
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
1.4	Implement County Farmland	Total preservation farm goal			2021-2022 –		Guidelines	N/A	_	Assume	2024: Partnership between Centre County Conservation District and the Farmland	
		(67 farms in program	Trust and Centre County	_	explore	resources for plan development				\$150,000 per	Preservation program continued. Four farms have been slated for preservation in	
	_	currently –10,563 acres,	Agricultural	farmland	incentive	(requirement of program),	recommendati	i		farm →	2024. Typically three farms are preserved annually, one farm was carried over from	
		average purchase price	Preservation	preservation	opportunities	additional staff need to handle	on			\$900,000M	2023. In 2022 Farmland Preservation received a grant from the American Farmland	
		\$3,202 per acre, ADD 2-3	Coordinator, NRCS,	criteria		inspection and paperwork,				,	Trust for soil health education. There is to be a pasture walk October 11, 2024 to	
		FARMS EACH YEAR ON	Clear Water			incentivize BMP installation as a			Practice	\$60,000 per	utilize the remainder of the funds.	
		AVERAGE) Farmland Trust –	Conservancy, PennAg			farmland preservation goal,	Priority		Keeper data	year		
		17 parcels	Industries Association,			O&M partnership, verification,	recommendati	i	input/manage	-	2023- Partnership between Centre County Conservation District and the Farmland	
			PDA			landowner acceptance/potential	ons, easement		ment		Preservation program continued. Five farms have been slated for preservation in	
						barriers to land preservation	revision				2023. Typically three farms are preserved annually, but extra funding supported two	
						goals	recommendati	i	Legal Support	Assume \$10,00	0 additional farms entering into preservation.	
							ons,			budget		
		Preserved farms will					supplemental				2022 - Partnership between Centre County Conservation District and the Farmland	
		implement and maintain					BMP funding				Preservation program continued. One field meeting with Conservation District staff	
		pollution control BMPs					research				and Farmland Preservation coordinator occurred with a current preservation	
		beyond what is required for									applicant which resulted in one additional conservation plan input into	
		compliance									PracticeKeeper.	
											Joint inspections will continue to take place on both preserved and applicant farms.	
											2021 - Centre County Conservation District established a partnership with the	
											Farmland Preservation program in Centre County planning. County staff and HRG	
											created and mailed a letter about the CAP to all 53 preserved farms in the region.	
											To date, two field meetings with Conservation District staff and the Farmland	
											Preservation coordinator occurred regarding new preserved easements, which	
											resulted in two additional Ag E&S plans to be input into PracticeKeeper.	
1.5A	Establish funding/staff	700 farms have their plans,	CCPD, CCCD, Contracted	Centre County	2021-2025	Limited compliance activities by	Field	N/A	1 engineer, 1	\$350,000 per	2024: The Foundation for Pennsylvania Watersheds finalized their Growing Greener grant	2022: Reduce BMP goals to be realistic with timeline and current implementation.
	support to assist the	including NRCS plans, might	planners	ag land		DEP. Insufficient funding for	verification,		planner, 2	year	agreement and set up contracts with HRG, Lancaster Farmland Trust, and Clearwater	
	Agricultural community (day	get up to 900 farms as this		-		public sector staff to assist the	troubleshootir	n	technicians	-	Conservancy for outreach and technical assistance. Work orders for ag I&Es, permits, and full	
	to day support)	grant gets finished \rightarrow focus				ag community.	g			\$15 per acre for	designs are underway for the regional service area.	
		on BMP implementation for								a total cost of	2023- CCCD has hired a new Watershed Specialist in support of this initiative. Penn State	
	1140 ag parcels in Centre Co	these farms								\$1,237,500	University is creating a Center for Agriculture Conservation Assistance which will support the	
											agricultural community and train conservation professionals in agricultural BMPs.	
		86,000 50,000 total acres										
		under manure management									2022 - The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant	
		plans/ nutrient									totaling \$1.6 million to support additional ag engineering needs along with increased farm	
		management plans									visits.	
											CAST Progress Reports trend analysis have been used to determine new BMP goals.	
		70,000 50,000 total acres										
		under ag E&S plans									2021 - Information pulled from October 1, 2020 through July 15, 2021 (not inclusive of	
											information in PracticeKeeper prior to this date):	
											New Act 38 plan acreage: 1,753 acres	
											New MMP plan acreage: 4,322 acres	
											New Ag E&S plan acreage: 5,546 acres	
											The Contro County Conconvision District applied for and received a Crewing Creative to	
											The Centre County Conservation District applied for, and received, a Growing Greener grant to pay Contract Plan Writers to develop plans for interested farmers in Centre County. The Plan	
											Writer develops both plans (not Act 38) if needed by the operation. The grant pays the Plan	
											Writer directly (anywhere from \$350-\$1500 per plan). The grant requires the farmer to pay	
											\$50 (total), which considerably alleviates the financial burdens associated with obtaining	
											nlans Daina Beckstrand is the certified Act 38 Specialist in the office and she reviews all Act 38	

						2024 Phase 3 Wat	tershed Im	plementatio	on Plan (WI	P) Milestone	Report – CENTRE COUNTY	
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			Responsible	Geographic	Expected	Potential Implementation	1	es <u>Available</u>		ces <u>Needed</u>	Annual Progress to Date	Reason for Change
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
1.5B	Develop plans	2 plans per month per consultant, assume backlog is complete (ag E&S and manure mgmt. plans)	CCCD, Contracted	Centre County ag land	2022-2023	Utilize outreach program to get	Contracted planners	\$50/plan to be paid to contractor		N/A	 2024- Plan Writer's grant was extended through the end of 2024. Only six additional plans written this year as backlog is complete and requests for plans have slowed down. We have funded a total of 76 MMP and/or Ag E&S Plans with the Growing Greener 649 Grant. If we cannot renew this grant for an additional year, we will send new plan requests through the PACD Ag Plan Reimbursement Program which pays 80% up to \$1500 for the cost of a plan. 2023- Through their 649 Growing Greener Grant funding, CCCD contracted with commercial plan writers to prepare plans. The contractors have prepared 70 plans for Centre County through 2023. 2022 - Currently, only one of our three plan writers is still active, though one may begin writing plans for us again by the end of the year. The conservation district is requesting a one-year extension on the growing greener 701 grant used to pay the plan writers and may consider adding another plan writer in 2023 to bring our writer back up to three. 2021 - Now working with three plan writers (new plan writer started in June 2021). January 2020 to July 2021, 31 plans written by private plan writers through the District's Growing Greener grant. 6/1/2019 (Date of grant received) – Plan Writers first began in January 2020, Total as of 8/23/2021 is 35 plans written. 	
1.5C	Gathering	Collect data regarding existing farm plans and implementation progress 50 farms per year> 200 farms through 2025	CCCD	Ag land use area	2021-2025	Farmer knowledge of the location and contents of their plan, obtaining copies of existing plans to determine if they are up to date	Site visits and plan reviews	\$200,000	N/A	N/A	2024 - 50 inspections were conducted in the 23-24 fiscal year. There are still remaining phase 1 farms to be inspected, but some phase 2 inspections have been conducted. 2023 - 52 inspections have occurred. Currently in Phase 1. 2022 - The Chesapeake Bay Agricultural Inspection Program is two inspections behind from the previous fiscal year, increasing the required inspections for the present year to 52. All farms inspected are still in the Phase 1 stage. 2021 - The Chesapeake Bay Agricultural Inspection Program is on schedule for 2021 and plan information is being entered into PracticeKeeper as part of the program workflow. As of May 31, 2021: 51 farms inspected. The Phase 1 inspection scope is completed in addition to farm networking, operational details, funding programs and the farmer's resource concerns. Implementation is discussed in relation to BMPs listed in the plans as well as updating plans at the time of inspection to include BMPs that have been installed but not previously recorded in existing Plans. "Inspections" are often not the forefront of the conversation as the term does not foster a two-way relationship within the agricultural community.	

						2024 Phase 3 Wa	tershed Imp	olementatio	on Plan (WI	P) Milestone	Report – CENTRE COUNTY	
				Green - action	n has been comp	pleted or is moving forward as	planned <u>Yell</u>	ow - action has	s encountered	l minor obstacles	Red - action has not been taken or has encountered a serious barrier	
			Responsible	Geographic	Expected	Potential Implementation	· · · · · · · · · · · · · · · · · · ·	s <u>Available</u>	Resourc	ces <u>Needed</u>	Annual Progress to Date	Reason for Change
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
1.5D	Other Plan Data Gathering	Collect data regarding existing farm plans and implementation progress ~45 farms per year> 170 farms through 2025	CCCD, HRG, Ag Consultants, NRCS, Chesapeake Conservancy	Ag land use area	2021-2025	Farmer knowledge of the location and contents of their plan, obtaining copies of existing plans to determine if they are up to date	50 farm visits per year g	Conservation Plan Inventory	Existing plan	Assume 20 plans per year (\$120,000 per year)	2024- No additional BMP verification was done this year, however, the district will have BMP verification funds available again in 2025 and plans to use these funds to hire HRG as a subconsultant to do remote sensing and field verification in additional municipalities within Centre County. 2023 - Conservation District staff continue to populate PracticeKeeper with existing agricultural plan information as Bay inspections occur. Further, the BMP Verification funding secured in 2022 was used to field verify practices that already exist in the field. The entire dataset has not yet been field verified but the Conservation District continues to utilize part of its annual budget to further map and verify practices across the County. A subconsultant, HRG, was hired to run remote sensing methods and field verify grazing and other structural agricultural practices in two townships. 2022 - In the Spring of 2022, HRG participated in a beta testing group for the PracticeKeeper 3rd Party Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into PracticeKeeper. 2021 - As of July 15, 2021: 11 additional plans (not collected through inspection program). Farmers provided them to the Conservation District as a result of their relationships with landowners and staff's discussions with them during phone calls, REAP application rounds, etc.	
1.6A		Receive project- opportunity/prioritization- deliverable to assist with- 2021 implementation steps	PSU Profs – Erica Smithwick, Jason Kaye; graduate students	Legacy- sediment- landscapes Riparian- Properties Preserved- Farms	2021	Student ownership of- assignment, water quality- monitoring data- compatibility/consistency, GIS- knowledge	Prioritization deliverable Background- data Spring Creek- Watershed- Atlas WRMP Report	N/A	N/A		2022 - Students advanced the 2021 research in the 2021-2022 school year. WQ monitoring status database and mill dam story map with some project location priorities have been provided. We'll see if the 2022-2023 cohort of students are interested in advancing these studies into implementation (Action 1.6B).The provided2021 - Centre County received the student reports from the 2020-2021 academic year and is considering the conclusions for next steps and additional student project opportunities. Link to one of the public reports: Overlap of Biophysical Need for and Sociodemographic Indicators of Willingness to Adopt Riparian Buffers in Centre County, PA (psu.edu)	planning phase is now complete.
1.6B	Partnership - Implementation		PSU Profs – Erica Smithwick, Jason Kaye; graduate students	Legacy sediment landscapes Riparian Properties Preserved Farms	2022-2025	Continued graduate engagemen as students graduate through program, implementation funding	t Outreach boots on the ground		Digital and print materials highlighting local projects	s to other Priority Initiatives' budgets	 2024: In early 2024, Students advanced research into implementing conservation landscaping practices in the Spring Creek Watershed. They made recommendations on site selection and outreach strategies. Their recommendations were incorporated into the District's pilot year of its Conservation Landscaping Program. 5 potential projects for the 2024-2025 school year have been identified and those scopes will be finalized in October for the Students to participate in this school year. 2023 - Students advanced the 2022 research in the 2022-2023 school year. The students advanced the research from the 2022-2023 school year by utilizing the GIS base created by previous students and implementing similar analysis in the Marsh Creek watershed. The students also focused on adoption of riparian buffers with the Plain Sect Community in that watershed. Their work provides base maps and initial/potential riparian buffer project locations. 2022 - See note from 1.6A. Also, notably, the new Chesapeake Bay technician hired this year attended LandscapeU classes, so in a way, we've already achieved the performance target. 2021 - Centre County received the student reports from the 2020-2021 academic year and is considering the conclusions for next steps and additional student project opportunities for the 2021-2022 school year. 	ram's name has changed to TREES.

	2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY														
				Green - action	has been comp	oleted or is moving forward as p	olanned Ye	low - action has	s encountered	minor obstacles	s <u>Red</u> - action has not been taken or has encountered a serious barrier				
			Responsible	Geographic	Expected	Potential Implementation	Resource	s <u>Available</u>	Resourc	es <u>Needed</u>	Annual Progress to Date	Reason for Change			
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item			
1.6C	Quantify Land/BMPs	Work with office of physical-	PSU Office of Physical	PSU-	2021	Getting maximum credits for	Institutional	N/A	N/A	N/A	2022 - FieldDoc project entry for existing projects continues to be on hold by PADEP.	Since PSU is an MS4, it may be better for their existing BMPs to be reported through the			
	Managed by Penn State	plant and other PSU groups	Plant?, PSU College of	owned/manage		experimental BMPs	knowledge					MS4 program and integrated into Pennsylvania reporting, rather than putting the onus on			
	University	to ensure that water quality-	Ag Sciences	d land in Centre							2021 - This initiative is on hold until FieldDoc is running for urban BMP data	the County.			
		improvements that they		County							collection. Ag BMPs will be documented in PracticeKeeper as appropriate.				
		manage are captured in													
		CAST/FieldDoc													
1.6D	Leverage Ag Progress Days as-	Have a booth and class(es)	CCCD, CCPD,	Countywide	2021	Preparation time, county staff	Educational	NFWF grant	Class offering	N/A	2022 - Centre County Conservation District continues to participate in Ag Progress	Since this is part of the District's annual work and it doesn't result in numeric reductions,			
	an opportunity to educate	at Ag Progress Days 2021	Chesapeake Bay			availability, opportunity to-	materials and	funding,			Days each year.	we're removing it from the CAP.			
	more farmers on local water		Foundation,			encourage farm stakeholders to-	demonstration	assume \$5,000	-						
	quality issues and solutions		Chesapeake-			participate with us	exhibits	could be			2021 - Centre County Conservation District staff participated with the riparian buffer				
			Conservancy, 4R					invested in			tour and pollinator plots, while providing educational materials at Ag Progress Days.				
			Alliance					this			The Conservation District also presented information at the Grange Fair.				

						2024 Phase 3 Wat	tershed Imp	lementati	on Plan (WI	P) Milestone	Report – CENTRE COUNTY	
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Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
1.7	Water quality communication	Develop messages and	Board of Commissioners	Countywide	2023-2024 -	Simplifying the resources that	Communicatio	N/A	Website	\$30,000 per	2024- Partnership with Penn State's CACAT on rain barrel workshops, including one	
		· · ·	staff, Penn State		launch of new	are available	ns skillset		development	year	that was held in the spring at the Pasto Ag. Museum. The next workshop will be held	
			Sustainability Institute,		plan based on				and continued		in the fall, specifically for residents within the Marsh Creek watershed. Landowner	
			PA DEP Northcentral		baselining				maintenance		outreach and technical assistance in the Marsh Creek watershed has helped inform	
	Guide to protecting Drinking		Office, Penn State		completed in						the nonpoint source pollution and flooding concern sections of the Marsh Creek	
	Water, Agricultural Practices		Extension (Master		2022.						watershed plan. A Watershed Specialist NPS Education Mini-Grant is being used for	
	and BMPs that reduce		Gardeners), PA Rural								a rain garden demonstration project, which will be completed in 2025. We are	
	pollution, Methods and land use controls that protect		Water Association, Penn State LandscapeU,								continuing our participation in the K10 tree program, and assisting landowners with	
	groundwater quality and		Clearwater								acquiring K10 trees that are used for both riparian buffer and upland plantings. The conservation district continues to be involved in the riparian buffer tour at Ag.	
	control quantity (Riparian &		Conservancy, Trout								Progress Days, as well as tabling events where we display resources on riparian	
	Forest Buffers, slope control),		Unlimited (Spring Creek								buffers and conservation landscaping. Educational information continues to be	
	Proper Turf Management		Chapter), Penns Valley								posted on Instagram and Facebook. The Spring Creek Watershed Commission, with	
	Methods (Natural		Conservation								assistance from the CCCD, has formed a Conservation and Stewardship committee	
	Landscaping and/or Chemical		Association, Spring								with that aims to create a stormwater education resource guide for landowners.	
	Application and Treatment		Creek Watershed								There are plans for 1-2 manure management workshops in 2025, and there were	
	Measures), The Homeowner's		Commission,								several rain barrel workshops with CACAT	
	Guide to Stormwater,		Moshannon Creek									
	Urban/Suburban BMPs		Watershed Coalition								2023- CCCD's Nutrient Management Technician and Watershed Specialist are	
			(Association), Bald Eagle								reviewing existing resources and incorporating them into education and outreach	
			Watershed Association,								across Centre County.	
			USDA-NRCS, DCNR, PSU									
			AEC								2022 - The Conservation District's new Nutrient Management Technician is	
											reviewing available resources and will make recommendations on the best communication strategy moving into 2023 and beyond.	
											communication strategy moving into 2025 and beyond.	
											2021 - Conservation District staff have developed content for a CAP website and	
											post educational information on Facebook. County Planning staff are taking the lead	
											on branding and a written communications plan/message strategy, to be completed	
											by the end of the year	
1.8	Countywide WQ Credit Offset			MS4 watershed	- 2021	DEP acceptance of approach,	Engineering/M	N/A	For	\$150,000 per -	2022 - No update.	While the MS4 communities have a strategy in place to implement the current PRP, and
	Pilot Variables to consider:	success of a pilot project area where MS4-regulated	Municipalities, Centre	HUC12 pilot		permit compliance coordination	S4 permit		implementatio n, if the pilot	year	2021 LIPC had a discussion with the Harris Township angineer to brainstorm pilot	while the current permit status (extension/new MS4s) is unknown, there is little
	 # of Farms/Forest 	areas and non-regulated	County Agricultural Preservation Program,	area		among sectors	requirement coordination		n, ir the pilot works, 1 FT		2021 - HRG had a discussion with the Harris Township engineer to brainstorm pilot project areas that would be potential candidates for a more cost effective and local	opportunity to explore implementation of an offset pilot.
		u u u u u u u u u u u u u u u u u u u	the Centre County				coordination		MS4	Linknown until	water quality beneficial approach to implementing their MS4 Pollutant Reduction	
	Corridors of Opportunity	achieving sediment and	Farmland Trust, Centre				Project		Coordinator, 1		Plan (PRP). Because cost effective projects have already been identified across all of	
	(COO)	-	County Conservation				opportunity		PT ag		the MS4s in the county, we will explore candidate projects over the life of the CAP	
	 Miles of riparian buffer 	-	District, Clearwater				ideas		Coordinator	-	but will likely not pursue implementation of any until the municipalities' next MS4	
1	created within COOs.		Conservancy, Spring							calculated	permit application requirement is known.	
	 # of Ag. BMPs established 		Creek Watershed						Project design			
	within COOs		Commission, Trout						and-			
	 Miles of Stream 		Unlimited (Spring Creek						construction			
	stabilization and restoration		Chapter), Penns Valley									
	within COOs.		Conservation									
	Spring Creek Watershed		Association									
	Resource Monitoring											
	Quarterly Progress # SWM facilities-											
	 π SWIVE facilities maintained within municipal 											
	park systems											
	 Acres of Preserved Open- 											
	Space and Environmentally											
L	,	1		1	1						1	1

						2024 Phase 3 Wat	tershed Imp	olementati	ion Plan (W	IP) Mileston	e Report – CENTRE COUNTY	
				Green - action	has been com	pleted or is moving forward as	nlanned Vel	low - action h	as encountered	l minor obstacle	s Red - action has not been taken or has encountered a serious barrier	
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Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
Prioritv	/ Initiative 2: Reporting	and Tracking										
2.1A	Existing BMP cataloguing	Expand use of existing	Lead - Chesapeake	Centre County	2021 –	EPA acceptance of the approach,	, Precision	N/A	Further GIS	\$46,000 (2021	2024- A 2025 scope was developed where HRG will perform a remote sensing GIS data	
	(quantity and location) for select BMPs, expanding on general recommendations provided in QAPP	buffer layer with urban hydrology layer R&D into distinguishing ag,	Conservancy Stakeholder peer review - PSU, USGS, Farm		cataloguing 2022 – Practice	further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of counties,	Tools		and data processing/mo thod refinement	only) e Assume \$200,000	analysis to develop a BMP cataloguing dataset with publicly available information and a PracticeKeeper data export that will be provided by CCCD. Remote sensing analysis will be performed for the following BMPs (rotational grazing, off-stream water systems, grassed waterways, streambank fencing, and waste storage facilities) in the following Townships: Penn, Gregg, and Potter.	
	BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, wet ponds and wetlands, fencing	Manual digitizing where leaf off <1 ft resolution imagery is available Back check with staff field views where required Add data to Practice Keeper or another batch upload	Bureau, PDA, EPA		Keeper batch upload processing and field views	utilize the approach to catalogue existing BMPs and do on the ground verification where required for reporting purposes, this is an accelerated BMP catch up approach while we continue to provide support to farmers or planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operations	Outline BMP Field backcheck			annual salary/benefit (per person) need for 2 staff people to follow up on BMP verification annually	 2023- A subconsultant, HRG, was hired to run remote sensing methods and field verify grazing and other structural agricultural practices in two townships. District Technicians have integrated BMP verification into their daily workload. CCCD hired a summer intern to help advance this goal. 2022 - In December of 2021, Centre County was awarded \$30,000 to conduct BMP Verification. Centre County elected to use some of the money on the remote sensing analysis focusing on six priority BMPs including: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, Streambank Exclusion Fencing and wet ponds/detention basins. Remote sensing data analysis performed by the Chesapeake 	
		option (FieldDoc)									Conservancy is being finalized in August of 2022 and results are provided in an online ArcGIS Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts. 2021 - Funding for the initial BMP cataloguing project has not been obtained. HRG and Chesapeake Conservancy are working on a white paper that will be presented to DEP. THIs white paper outlines the need for more remote sensing work to be done, specifically, by taking next steps with the NRCS PA BMP Remote Sensing Pilot Project (Potomac River Basin) process and findings. By taking this step, the initiative is behind schedule and not yet funded, but we hope to build momentum toward a successful outcome, including buy-in from EPA/Bay Program.	
2.1B	Identify future ag/urban project opportunities using automated means			Centre County	2023 – cataloguing 2024 – batch upload processing and field views 2025 – implementatio n focus	Different data set scales/precision	Precision Conservation Tools Batch Upload Processing BMP Field Check	N/A	Further GIS and data processing/ method refinement	\$44,000 (2021)	 2024- No progress to date. 2023- As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale some have direct equivalents to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground input. The outputs are expected to be publicly available after June 2024. 2022 - No progress to date. 2021 - See 2.1A for progress as this initiative is a companion initiative. 	

						2024 Phase 3 Wat	tershed Im	plementati	on Plan (W	IP) Milestone	Report – CENTRE COUNTY	
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			Responsible	Geographic	Expected	Potential Implementation		s <u>Available</u>		ces <u>Needed</u>	Annual Progress to Date	Reason for Change
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item
2.2	Improve continuous data collection on urban structural	Add development-related	Municipal engineers, Bellefonte Borough, Chesapeake Conservancy?	Urban/suburba n landscape	2023-2025	Non-MS4 engagement (what's in it for them if they don't already have a BMP database?), difficulty obtaining past information (MS4s typically have databases from 2003-present)	platform	N/A	Training Municipal Data Input	Assume \$5000 administrative cost per municipality per year and 7	2024- No progress to date. 2023- No progress to date. 2022 - Phase 1 of the BMP verification remote sensing analysis includes analyzing Centre County for Wet Ponds and Detention Basins. These BMPs will need field verified. Additionally, PA DEP has updated FieldDoc to allow for additional reporting of urban practices. 2021 - The CAP team discussed the existing Act 167 Plans and resulting model	2022: Still a relevant action; extended the expected timeline.
											ordinances with key local stakeholders, and the need for urban BMP reporting was also discussed. Since the County records plans that are as-builts, it is possible to go back through the plans and capture BMPs for reporting in FieldDoc. Going back to 2010 is an aption since that's when apprecian and maintenance appreciate started	
2.3	Implement a documentation program for commercial and homeowner nutrient applications in developed- lands	Support fertilizer legislation – where legislation requires reporting, be the data- clearinghouse		Countywide	Ŧ BD	Education of responsible parties, receiving timely information, training on reporting system, will need direction from State or what's expected and any- reporting system that's- developed	, TBD +	Ŧ BD	TBD		 2022 - On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R) and Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrass fertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting will occur with the new bill. 2021 - This initiative is being pursued by legislators. HRG has coordinated with the Chesapeake Bay Commission staff on the topic and receives periodic updates. 	Counties are not identified in the legislation as a lead on this initiative.
Priority	Initiative 3: Achieve N	lew Pollutant Reduct	ions				•					
3.1	Implement BMPs from Growing Greener plan development farms	Design and install four manure management systems and AHUAs per year	CCCD, NRCS, Chesapeake Bay	Centre County ag land	2021-2025	Having enough in-house technical assistance capacity to see projects from concept through construction	Design, construction oversight	N/A	N/A	projects per year, \$440,000 each, \$2,200,000 per year (construction and technical assistance), \$6.6 M total (2023- 2025)	 2024- Both 2023 projects were completed. Four additional projects (Stine, Smith, K. Hall, Woomer) installing manure management systems are currently construction ready and will be finished in 2024 or early 2025. A fifth (R. Weaver) to be installed in the same timeframe will implement an animal mortality composting facility and two additional projects (Pighetti, E. Weaver), currently under construction are implementing a rotational grazing system. Four additional manure management systems are expected for the 2025 construction season (Brown, M. Hall, Grove, Liner). 2023- Both 2022 projects have been completed. two additional projects were identified and should be complete by the end of 2023. 2022- Existing plans and verified BMPs continue to be reported through PracticeKeeper. As of 8/15/2022, projects to install four manure management systems or protected AHUAs have been completed, one more is expected to be completed by the end of the year and another by spring of 2023. 2021 - The majority of plans drafted to date have documented existing BMPs. Those plans and BMPs are being reported through PracticeKeeper, contributing to our overall goals. 	

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3.2 Ir	nplement Halfmoon WIP	WIP approval – 2021	Chesapeake Bay	Halfmoon	2021-2025	Funding, landowner interest in		\$5,000	Design,		2024- The Pascavage stream restoration project has been completed on Halfmoon	
		least and a station Count	Foundation, Centre	Watershed –		BMPs, implementation partner	coordination		permit,		Creek and the Loveville tributary, which has stabilized 2,200 linear feet of	
		Implementation Grant	County Conservation	Halfmoon		coordination			construction			2022: Add land retirement to be consistent with BMP template. Verification will achieve
		Application – 2022 – see plan (when approved) for	District, Dr. Preisendanz Lab Group of Penn State						oversight		nitrogen, and 170 pounds of phosphorous per year. We are actively looking for parcels in the Halfmoon Creek watershed, specifically active farms with resource	some of the 178 acre goal.
		BMP specifics	University, DCNR,	Township							concerns, that will be funded under the Halfmoon 319 NPS Grant.	
			Chesapeake	lownship								
		Partial Implementation –	Conservancy, Western								The animal mortality composting facility referenced in 3.1 is within the Halfmoon	
		2023-2025	Pennsylvania								Creek Watershed. One of the manure management system projects (Stine) is also in	
			Conservancy, Keystone								the watershed and will implement a vegetated buffer along 1700 ft of Warriors	
		Implement land retirement									Mark Run (tributary to Halfmoon Creek) and implement fencing to exclude cattle	
		to pasture - 178 acres. BMP	•								from this portion of the creek. USFW is in the process of implementing a large	
		verification will support the	-								streambank stabilization project on the halfmoon Creek 319 Project that stabilizes	
		goal.	Environment Center,								2,600 LF of eroded streambanks. Implementation will begin as soon as a GP-1 is	
			Huntingdon County								authorized, and work is expected to begin during the summer of 2024.	
			Conservation District, Clear Water								2023- A large scale full farm implementation project was completed in partnership	
			Clear Water Conservancy, Partners								between the Chesapeake Conservancy, the Clearwater Conservancy, the	
			for Fish & Wildlife, Penn								Northcentral Pennsylvania Conservancy, and HRG. The project included wetland and	
			State Extension, USDA								riparian buffer restoration, streambank regrading and channel protection, 2	
			ARS Pasture Systems								livestock stream crossings, a 39' x 47' roofed manure storage facility, a 39' x 104	
			and Watershed								roofed HUAP, agricultural stormwater management, livestock access roads, livestock	
			Management Research								water facilities, 3,700 LF of streambank fencing, 6,840 LF of pasture fencing, and the	
3.3 A	ccelerated implementation	Implement 9 previously	Chesapeake	Beaver Branch,	2021-2030	Reinvigorating landowner	Program	\$500,000	N/A	\$16,000,000	2024- RCPP funded five projects in high priority areas for rapid delisting (Fye,	2022: Financial budget updated according to current knowledge of anticipated
0	f Rapid Delisting Catchment	scoped projects resulting in	Conservancy and the	Halfmoon –		interest,	management				Bressler, Fisher, Hart, Stine). All projects are currently under contract and are	construction budget need to complete rapid delisting in Centre County. The timeline was
St	trategy through the	29 acres of forest buffer, 9.4		Bald Eagle,		design/permit/construction	and GIS				moving towards implementation.	extended as well due to the anticipated pace of fundraising and realistic project
	recision Conservation	acres of fencing with buffer,		Halfmoon –		schedules, construction match						implementation with current human resources.
P	artnership	11 acres of wetland	stakeholders	Loveville, Elk		dollars	Landowner				2023- RCPP funding has opened in Centre County and focuses on Rapid Delisting	
		restoration, 5,000 LF of		Creek, Tributary	'		Outreach				Catchments. One project has been contracted through that funding in 2023.	
		stream restoration		to Pine Creek							Additional projects have been identified by the new Watershed Specialist that will	
											include stream restoration and buffer projects.	
											2022- Running statistics for the Partnership's implementation include 15 private	
											properties where projects have occurred, 20,000 trees planted, 7400 ft stream	
											restoration, 1200 ft of buffer, 1500 ft fencing, 1200 live stakes planted, and ag	
											operation BMPs. All BMPs funded/installed by the Partnership are reported to	
											PADEP through the funding reports. Fundraising continues including applications for	
											ag BMPs to funded through Growing Greener, EQIP, and the 319 application noted	
											under Action 3.2.	
											2021 - The Precision Conservation Partnership implemented 4 restoration projects	
											during spring 2021 including 24.63 acres of forest buffer, 4.63 acres of herbaceous buffer, 890 linear feet of streambank fencing, and 910 linear feet of in-stream	
											restoration within rapid stream de-listing catchments. This fall we have 6 additional	
											projects fully funded where restoration will begin in rapid stream de-listing	
											catchments. These include an additional 18.3 acres of forest buffer, 2.2 acres	
											herbaceous buffer, 4 acres of wetland restoration, and 11,172 linear feet of	
											streambank fencing.	
	ish Hatchery Nitrogen	Address nitrogen discharges		Countywide	2024-2025 -	,	CAST insight	N/A	0		2024- No progress to date. In 2025, the Watershed Specialist plans to reach out to	2022: Extended the timeline to allow for additional time to investigate solutions.
R	eduction	associated with fish	Commission, DEP		investigation	challenges	Linksh -		study		the Hatcheries to determine if there are any potential projects or current water	
		hatchery locations – amend	Northcentral Regional Office, local watershed		2022 - novt		Hatchery				quality data being collected.	
		how they are viewed in CAST, collect environmental			2022 – next steps		operation insight				2023- No progress to date.	
		monitoring information to			Jeeps							
		confirm/refute that they are	-								2022 - Organizational connections have been made but not action to date.	
		elevated nitrogen										
		producers,									2021 - A hatchery tour is being coordinated between PFBC and HRG during 2021.	
		plan/design/construction									We will view the existing facilities and treatment methods and identify potential	
1	-											
		nitrogen-reducing									improvement needs during the tour.	

	2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY													
				Green - action	n has been com	npleted or is moving forward as	planned Ye	llow - action ha	as encountered	minor obstacles	s Red - action has not been taken or has encountered a serious barrier			
			Responsible	Geographic	Expected	Potential Implementation	Resource	es <u>Available</u>	Resourc	es <u>Needed</u>	Annual Progress to Date	Reason for Change		
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item		
Action # 3.5	Description 4R Practice Education and Implementation	• • • •	4R Alliance, CBF	Location Priority HUC	Timeline 2021-2022	Challenges or Landowner interest, BMP verification (annual), CBF staff loss who had a lot of landowner relationships	Technical Educational support	Financial CBF grant	Cost share recommendation	50000	2024- 4R implementation continues to occur on a farmer-driven basis. Reporting of it only occurs when the farmer works with the Conservation District on a project or if they are reviewed for a Bay inspection.	2024: Increased the goal of Core Phosphorus to increase to 5,250 acres based off		
3.6	Low and no-till cover crop and tillage BMPs			Ag land use countywide	2022 – investigation 2023 – next steps	Capacity to manage the program, landowner interest	Transect survey Landowner education	N/A		\$90 per acre traditional per year: \$1.08M for a 3-year total of \$3.24M (incentive payment, capital RC&D) \$50 per acre fall nutrients per year: \$0.75M for 3-year total	 held: Late August PACD-funded Homeowners Conservation Workshop, Spring 2022 PACD-funded/Chesapeake Conservancy Partnership Plan Writing Workshop in Elk 2024- Through 2024 CAP Block Grant funding, CCCD continued the cover crop incentive program. All acres applied for were no-till and equaled 2,745 acres in the second year of the program. CCCD will continue the program in 2025 and beyond as funding allows. 2023- Through 2023 CAP Block Grant funding, CCCD developed a pilot cover crop incentive program. All acres applied for no-till which equaled 1,650 acres in the first year. CCCD will continue this program into 2024 and beyond as funding allows. 	2024: Added a new goal of 8,000 acres of low residue tillage in 2024 to this action item. 2022:The expected timeframe was extended. Decreased Conservation Tillage to be consistent with reporting trends and increased high residue tillage because 2020 goal was exceeded. Increased Traditional Cover Crops because of current implementation rates, slightly decreased cover crops with fall nutrients because of increased traditional cover crops.		

				<u>Green</u> - action	has been comp	leted or is moving forward as	planned <u>Yel</u>	low - action ha	is encountered minor obst	les <u>Red</u> - action has not been taken or has encountered a serious barrier		
			Responsible	Geographic	Expected	Potential Implementation		s <u>Available</u>	Resources Needed	Annual Progress to Date	Reason for Change	
on #	# Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical Financi	(2021 to 2024)	to Action Item	
.7	Implement more pasture	Off stream watering without	CCCD, NRCS,	Centre County	2025	Landowner education, BMP	Landowner	CBF grant	N/A Prescribed	2024- Three of the projects referenced in Action #3.1 (Stine, Pighetti, E. Weaver) ar	e 2022: Lower streambank exclusion fencing BMPs to be realistic given timeline. Some	
	management BMPs	fencing – 1,460 acres/10	Chesapeake Bay	ag lands –		funding for non-buffer work,	education		grazing: \$2	5M currently under construction and will include rotational grazing systems, off stream		
		farms	Foundation,	landowners		plan updates, data gathering				watering sources, and forested or grass buffers.	new budgets.	
			Chesapeake	who raise			Data gathering	S	FB Buffer w			
			Conservancy	horses, dairy,			through Bay		Excl: \$525,			
		Watering – 2,600 acres		beer			Tech visits		GB Buffer v	grazing systems, off stream watering, forest buffers and grass buffers. A second h large scale project in Walker Township, expected to finish this year, will incorporate		
		Prescribed grazing – 4,000							Excl: \$137,			
		acres (50% by reporting)								smaller project in Union Township, expected to finish this year, will implement an		
		, , , , <i>, , , , , , , , , , , , , , , </i>							Pasture	off-stream watering system with streambank and pasture fencing.		
		Horse pasture management							Alternative			
		– 50 acres/3 farms							Watering:	2022 - Phase 1 of BMP verification identified 149 potential hits for streambank		
									\$1.3M	exclusion fencing. This data set will allow for increased reporting of buffered acres		
		Forest buffers on fenced								with exclusion fencing. Further, the Conservation District is hoping to partner with		
		pasture corridor – 365 100							Off Stream	Capital RC&D's grazing program professionals. A meeting is scheduled in		
		acres (50% by reporting)							Watering:	summer/fall 2022 to discuss the opportunity.		
		Grass buffers on fenced							\$730K	2021 - Additional documented BMPs this year, not inclusive of all recently entered		
		pasture corridor – 1,127 286							Horse Past	• • •		
		acres (50% by reporting)							Manageme			
									\$25,000			
									+==,===	Anecdotally, there is less pasture on operations than previously reported, so these		
										targets may not be realistic.		
8	Riparian buffer and re-	Partner with Chesapeake	Clear Water	Centre County	2022 – line up	Landowner partnerships,	Materials	Budget	Implementatio \$2,000,000		2024: Increased the goal of forest buffers to 2,500 acres based on annual reporting	
	forestation BMPs (not	Bay Foundation to plant	Conservancy, CBF,			landowner education, volunteer		available to be	n – design, \$3,295,000	2024- The conservation district has helped landowners plant 5,750 trees (estimated	increasing.	
	downstream from animal	100,000 trees (portion of	watershed associations	s,		acceptance of grass buffer		determined	equipment, budget	20 acres) from the Keystone 10 Million Trees Program between the Spring of 2023		
	activities)	500,000 trees that will be	Chesapeake		2023-2025 –	plantings, grass buffer			materials	to Spring 2024. These are trees that the conservation district orders for landowners		
		J	Conservancy, Western		implementatio	maintenance guide for farmers,				while assisting with planting plans and volunteer tree plantings. These trees were		
			PA Conservancy		n	routine site visits to confirm	Mapping			used for both riparian buffer and upland plantings, and were planted on both rural	2022: Reduced some of the BMP goals to be realistic given timeline. BMP verification	
		2,500-471 292 riparian				buffers are thriving, invasive				and suburban parcels. The conservation district plans to continue assisting	still play a significant role in meeting the goals.	
		forest buffer acres				species removal during establishment, it was				landowners with acquiring K10 trees and planting them. 550 trees have been ordered for landowners for Fall 2024 through the K10 program. There are		
		1,714 1,175 riparian grass				recommended by their peers				landowners that order trees in Centre County without assistance from the		
		buffer acres				that Clear Water Conservancy				conservation district or through other organizations, which can be difficult to track.		
						serves as the lead site				We plan to join Chesapeake Conservancy's live staking collaborative, as this is a		
		8 acres – urban forest buffer				coordinator				great way to plant riparian buffers while stabilizing stream banks. Another way that		
										the conservation district can achieve this goal is to apply for a DCNR C2P2 grant,		
		3 acres – urban tree								which can help fund riparian buffers, upland tree plantings, and lawn conversion		
		planting – target one								projects. State College Borough has		
		landowner in urbanized area								partnered with USFW to come up with a concept plan for streambank stabilization		
										and riparian buffer plantings as part of their PRP. The plan is to stabilize 2,500' of		
		1 200 25 acres – urban forest								streambanks at Walnut Spring Park and install 35' of buffers on each side of the		
		planting – target one large landowner in urbanized area								creek. Project is set to begin construction in 2025.		
		landowner in urbanized area								WPC was awarded approximately \$1 million dollars from a NFWF INSR Grant to fun	4	
										the planting of 75 acres in the Juniata, Potomac, and West Branch Watersheds, with		
										portions of the work planned for Centre County. The funding also includes hiring		
										new staff to help with outreach and to start a volunteer maintenance program.		
							1			Clearwater Conservancy secured a DCNR C2P2 grant in 2022 that funded 10-acres of	f	
							1			buffers planted in 2023 and an additional 11 acres to be planted in summer of 2024		
							1			in the Halfmoon Creek watershed and the Beaverdam Branch. They also secured an		
							1			additional \$5,000 that will contribute resources to plant the buffers in the Halfmoo	1	
							1			Creek Watershed. Clearwater also recently applied to CCCD's BG to fund a 13-acre		
							1			wetland restoration/buffer planting in Centre County. Finally, the Conservancy		
										applied for a DCNR C2P2 Grant to fund buffer projects in multiple Counties, including Centre with a scheduled implementation date of 2025 after sites are		
										determined.		
							1			2022. No buffers not downstroom of animal activities are planned in 2022. The new		
							1			2023- No buffers not downstream of animal activities are planned in 2023. The new		
							1			CCCD Watershed Specialist is identifying potential sites for those types of buffers in 2024.		
							1					
							1			2022 - Chesapeake Bay Foundation was awarded an NFWF INSR grant including		
							1			funding for riparian buffers (non-agricultural) and for building the workforce for		
		1					1			implementation of rinarian huffers. The Foundation also has funding for huffer		

	2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY													
				Green - action	has been comp	pleted or is moving forward as p	lanned <u>Yel</u>	low - action ha	as encountered	l minor obstacles	Red - action has not been taken or has encountered a serious barrier			
	Responsible Geographic Expected Potential Implementation Resources Available Resources Needed										Annual Progress to Date	Reason for Change		
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item		
3.9A	Wetland restoration implementation on marginal production ag land	11 35 acres	Chesapeake	Halfmoon – Bald Eagle,		Willing landowner; appropriate	Landowner outreach	N/A	Preliminary design	\$300,000 for- land acquisition Assume \$100,000- \$11.55 M project budget (design, permit, construction)	 2024- HRG has investigated SRBC Consumptive Use Funds to implement potential projects in Centre County that would return crop fields back to wetlands. 2023- No progress to date. 2022 - Existing partners lack wetland expertise (streamside work and agricultural BMPs expertise make up the current team). Human resources capacity has limited the communication with the identified landowner. It continues to be included in the suite of BMPs that the Partners promote in the Halfmoon watershed. 2021 - Property identified in Harris Township. Next steps include scoping the project in the field and meeting with the landowner in 2022. 	2022: Extended the timeline to account for the implementation of the Halfmoon WIP. Total remained the same additional BMP verification must occur.		
3.9B	Wetland restoration implementation	owner from University of Vermont restorable wetland	Clear Water	watershed (ag or non-ag)	(2023) Funding (2024)	for Clear Water, landowner participation, permitting,	GIS mapping Landowner outreach	N/A	Preliminary- design	\$500,000 See 3.9A	 2024- WPC applied for funding with SRBC's Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG. 2023- No progress to date. Wetland restoration technical capacity continues to be a hurdle to initiate landowner outreach. 2022 - No progress made. Wetland restoration technical capacity is a hurdle to initiate landowner outreach. 2021 - Initial contact with a representative from Wildlife For Everyone was made without response. The CAP team would benefit from a partner organization taking the lead on this initiative. The schedule will need to be extended to insert the step of identifying a lead organization before or in parallel with identifying some candidate landowners. 	2022: Extended the timeline to account for needing a non-County stakeholder to be the lead.		

						2024 Phase 3 Wat	tershed Im	plementatio	on Plan (WI	IP) Milestone	e Report – CENTRE COUNTY	
				Green - action	has been com	npleted or is moving forward as	planned <u>Ye</u> l	low - action has	s encountered	l minor obstacles	Red - action has not been taken or has encountered a serious barrier	
			Responsible	Geographic	Expected	Potential Implementation		s <u>Available</u>		ces <u>Needed</u>	Annual Progress to Date	Reason for Change
Action # 3.10	Non-urban stream restoration	Performance Target(s)37,600 feet (7 miles)installed, 72,400 feet ofverified stream restorationAssume two project installsper year per contractorteam22,200 LF in TU plannedprojects	Party(ies) and CBF, Chesapeake Conservancy, TU National, Spring Creek TU, NFWS, Western PA Conservancy, Penns Valley Conservation Association	Location Rapid delisting areas	Timeline 2021-2022 2023-2024 2025	Challenges or Design/permit/construction cycle seems to work in two-year increments, there is an assumption that eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field, adjust quantitative goal down and ensure buffers are in place	Technical GIS Design/GP-1 permit	Financial Existing grant	Technical Design, permit, construction services	- \$14 M for total project delivery, floodplain restoration concept, not O&M Assume \$50/LF - \$1,110,000 for	(2021 to 2024) 2024- The 2024 CAP Block Grant funded a stream restoration project along Spring Creek. WPC with partnership with PAFB, CCCD, and HRG plan to finish 2,000 LF of stream restoration on Spring Creek with construction scheduled to begin in August of 2024. 2023- The 2023 CAP Block Grant funded two sub awardee stream restorations. The first, through a partnership with the Western Pennsylvania Conservancy and Spring Creek Trout Unlimited chapter restored 1,000 feet of eroding streambank and created in-stream fish habitat by installing six log-framed stone deflectors with three clusters of random boulder placement in the Spring Creek Watershed. The second was a subaward to the Spring Creek Trout Unlimited. A total of 525 linear feet of stream were addressed with mud sills and rock cross vanes to reduce erosion through bank stabilization. Fish habitat was improved through riffle enhancement and GP-1 structures. This project also occurred in the Spring Creek Watershed. 2022 - \$200,000 NFWF Grant for Park Hills Drainageway, regenerative stream conveyance, final design and permitting, construction to start late 2022/early 2023. 2021 - See Initiative 3.3 for update.	2022: The total goal remained the same. More BMP verification is needed to reverify los acreage.
3.11	Implement more barnyard runoff control/loafing lot management/ag stormwater management	110 total acres treated. 59 acres to reach that goal.	CCCD, Chesapeake Conservancy, NRCS	Livestock farms	2021-2025	Mapping challenges, typical logistics regarding landowner buy-in and project development/funding	N/A	N/A	Consultant for program management and project delivery	\$9 M total Barnyard Runoff Control \$250K per project, assume 1 acre per project	 2024-Three of the projects referenced in Action #3.1 (Stine, K. Hall, Woomer) will include roofed HUAP facilities with associated stormwater practices. All four projects expected for 2025 (refenced in Action #3.1) will include roofed HUAP facilities as well. 2023- The large scale project referenced in Action #3.2 incorporated a 39' x 104 roofed HUAP and agricultural stormwater management. Another large scale project in Harris Township, expected to be completed this year will install a 60' x 120 roofed HUAP and stormwater management practices. Similarly, the large scale project in Walker Township, referenced in Action #3.7, will install a 50' x 168' roofed HUAP and stormwater practices. 2022 - Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. Current pace of new BMP implementation is about 2 projects per year. 2021 - CEG and Block Grant funding are being spent on projects that support this initiative. Five projects are on schedule to be completed this year including roofed heavy use areas and manure storage BMPs. 	
3.12	Animal waste management BMP implementation for livestock	8,500 7,400-11,430 AUs managed through new BMPs Manure transport out of area- 1,300 dry tons per year.	CCCD, SCC, CEG Program (future years)	Livestock farms	2021-2025	and CCCD implements about 5 farms projects per year; Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value for small farms; readiness to	n – 2 farms/year Project	\$280,000/year Assume \$420,000/year	Design, permit, construction services	per year, \$1.3 W total Animal waste management system \$250,000 per project, assume 200 AUs per	 2024- All three projects referenced in Action #3.11 will also include a manure stacking structure to minimize manure-laden runoff leaving the operations. A fourth project referenced in Action #3.1 (Smith) will implement a manure stacking shed only as the operation has sufficient animal housing, but lacks any manure storage. A fifth project referenced in Action #3.1 (R. Weaver) will implement an animal mortality composting facility which will eliminated runoff and potential ground water contamination from current composting practices. All five of these projects are expected to be completed by the end of 2024 or beginning of 2025. All four projects expected for 2025 (referenced in Action #3.1) will also include manure stacking structures. 2023- The large scale project referenced in Action #3.2 incorporated a 39' x 47' roofed manure storage facility. All three large scale projects referenced in Action #3.11 include manure stacking areas. 2022 - BMP Verification Phase 1, shows the potential to report an additional 110 animal waste storage facilities currently not reported through PracticeKeeper. 2021 - CEG and Block Grant funding are being spent on the construction of projects that support this initiative. 1800 AUs are being managed by these newly installed projects including beef, dairy, horses, swine, and poultry operations. 	

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													
			Responsible	Geographic	Expected	Potential Implementation	1	s Available		ces Needed	Annual Progress to Date	Reason for Change	
tion #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item	
3.13		Floodplain restoration- and/or wetland restoration- project that achieves future- MS4 permit sediment- compliance for a currently- waived Township while- yielding nitrogen reductions for UAJA's benefit	UAJA, Benner Township, Spring Township, Nittany Valley Joint Recreation Authority		Regulatory- approval (2021- 2022) Design/permitt ing (2023) Construction- (2024-25)	Landowner participation, regulatory compliance (MS4 — sediment and WWTP NPDES — nitrogen), funding for construction, recreational opportunity based on project- location and public accessibility	Long-term- operation and maintenance Municipal/ landowner- coordination	- N/A	Design, permit, construction- services	Assume 2500 LF project, \$750,000 project budget	2022 - no update. 2021 - This initiative is on hold pending updates from DEP to the mitigation banking process, regulatory changes to Chapter 105, and the next MS4 permit requirements for municipalities.	2022: Since the different triggers identified in 2021 have not moved forward, there is opportunity to advance this before 2025.	
		Implement existing ordinances at local municipal level Catalogue existing BMPs that fit into this category and newly built ones Runoff Reduction - 1,640 acres treated, stormwater treatment - 341 acres treated.	CCPC, CCCD, developing municipalities	County-wide	Ongoing 2021-2025	Coordination/training for municipal staff, FieldDoc batch opportunity, non-MS4 engagement (what's in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present)	Reporting platform	N/A	Training Municipal Data Input	N/A Assume \$5000 administrative cost per municipality per year and 7 developing municipalities à \$35,000 per year \$1.9 M overall	 2024- No update 2023- No additional progress to date due to focus on MS4-credit projects by MS4s and lack of capacity to map Chapter 102-related existing runoff rate mitigation BMPs. 2022 - urban BMP cataloguing is started in this year's BMP Verification program. Should it continue to be funded, additional watersheds and BMP types will be added to the program. 2021 - This initiative is on hold until FieldDoc is running for urban BMP data collection. 	2022: Added BMP goals to the template to be consistent with the BMP template. Goal remained the same from 2020.	
	Implementation	of current permit term	Harris Township, Patton Township, College Township, State College Borough, Ferguson Township	planning area	2025	Municipal capacity to implement plans (technical, financial)	Municipal engineer design/permit, construction readiness	Unknown ,	N/A	\$4.5 M overall project budget	 2024 - MS4s continue to implement their joint PRP. 2023 - MS4s continue to implement their joint PRP. 2022 - MS4s continue to implement their joint PRP. 2021 - The municipalities are on track regarding implementing the joint Pollutant Reduction Plan. As BMPs are implemented, they will be reported through the MS4 	2022: Updated the expected timeline in accordance with the MS4 Partners' permit deadline. Added BMP goals to the template to be consistent with the BMP template. Goals remained the same from 2020.	
	to Meadow Conversion/Watershed Forestry Initiative	(20 acres of conversion)	PA Conservancy, Clear Water Conservancy, Penn State Ag/Turf Program	Developed areas in Centre County municipalities	2023-2025	Landowner education and acceptance	Planting plan assistance	N/A	N/A	(forest), \$2,500 per acre (meadow) → \$ 105 0,000 (budget for all forest)	 2024- Centre County Conservation District's Conservation Landscaping Program is moving forward in 2024-2025. There will be two projects out for bid in the Fall of 2024 and completed in the Spring of 2025, including a project at Woodward Camp and one at the Centre County Willowbank building. These locations were chosen due to their high visibility as well as the willingness from the landowners and maintenance staff. These projects will increase pollinator habitat while reducing stormwater runoff entering nearby streams. Planning has begun for 2025-2026 as well, including discussions with the State College Borough regarding projects in their local parks. Some of these areas were identified by the TREES 574 class at Penn State as high priority areas for lawn conversion projects within the Spring Creek watershed. 2023- CCCD is investigating a pilot Conservation Landscape Program in Centre County. They are meeting with neighboring counties who have implemented similar programs and determining the feasibility of such a program in 2024. 2022 - no update. 2021 - Consistent DCNR Conservation Landscaping program funding is needed for the County to promote the opportunity and enable our partners to take the lead on a large-scale project. 		
.17	Impervious surface reduction- project	Identify a blighted/flood- prone area that could be- converted to a park (8-acre- area)	CCPC, CDBG-eligible- municipalities	Centre County- Boroughs	HD landowner (2021) Funding (2022) Design/ permit (2023-2024) Construction- (2025)	Lack of local interest, property purchase/donation, suggested- to explore below South Hills- Plaza, streets perpendicular to- Easterly/Westerly Parkway	Mapping	Available- budget to be- determined	Design, permit, construction	\$ 7,000,000-	2022 - No progress. 2021 - No progress has been made to date due to team capacity and a lack of need for MS4 credit. It is also not a high priority due to low nitrogen reduction potential and high anticipated capital cost.	2022: Not a high priority and MS4s don't need it for Joint PRP implementation.	

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				Green - action	has been com	oleted or is moving forward as	planned <u>Ye</u>	llow - action ha	s encountered	minor obstacles	Red - action has not been taken or has encountered a serious barrier			
			Responsible	Geographic	Expected	Potential Implementation	Resource	es <u>Available</u>	Resour	es <u>Needed</u>	Annual Progress to Date	Reason for Change		
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item		
Action # 3.18	Continue dirt and gravel road program	Performance Target(s) 200,000 feet overall restored through past projects and future projects	Party(ies) and CCCD	Location Countywide	Timeline 2025	Continue D&G Road program funding	Technical Education, technical assistance, project oversight	Financial \$175,000 per year		N/A	(2021 to 2024) 2024- Dirt and Gravel: Sawmill Road, 2498 ft. Schwabtown Road, 867 ft. Shunk Rd., 145 Ft. Shangri Lane, 1668 ft. Low Volume: Richner Hollow Road, 5970 ft. West Walnut St., 99 ft. Race Alley, 1092 ft. 2023- 2 DGR projects complete: Howard Township - Schwab Town Road Phase II: Approx. 590 LF, Total Roadway Project Length: Approx. 1,561 feet (Phase III planned for 2024-2025); Snow Shoe Township – Black Bear Road: Approx. 1,750 LF. 2 LVR projects complete: Potter Township - Strawberry Hill Road: Approx. 2,087 LF; Rush Township – Richard Street Spur: Approx 200 LF.	to Action Item		
3.19	Operation and Maintenance Performance	Cultivate a partnership(s) with volunteer groups or contractors who we can direct landowners to who have interest in assistance with O&M of practices that we facilitate	Volunteer group, contractor	Countywide	2023-2025	Volunteer training, liability, materials/equipment funding	Technical guidance Volunteer maintenance labor	N/A	N/A	N/A	2022 - Nearly 11,500 feet of roadway will be improved through the DGLVR program in 2022. Another 8,300 feet of roadway projects are planned for 2023 as of now. 2024- No progress to date.	2022: Extended the timeline because this is still an important piece of the overall BMP installation strategy.		
3.20A	Private Funding	Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders	Existing project implementer networks, Ag Choice Farm Credit?	Centre County	2023-2025	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known)	Financial services	N/A	N/A		2024- No progress to date.	2022: Extended the timeline because this is still an important piece of the overall BMP installation strategy.		

	2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY													
				Green - action	has been com	pleted or is moving forward as	planned <u>Ye</u> l	low - action ha	as encountered	l minor obstacle	es <u>Red</u> - action has not been taken or has encountered a serious barrier			
			Responsible	Geographic	Expected	Potential Implementation	Resource	es <u>Available</u>	Resour	ces <u>Needed</u>	Annual Progress to Date	Reason for Change		
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item		
3.20B	Public/Non-profit Funding	Fill-out our public/non- profit source list	Central PA Conservancy, Western PA Conservancy, Natural Lands Trust, Chesapeake Bay Foundation, Hamer Foundation	Centre County	2024-2025	Partners use similar funding sources, becoming more competitive	Financial services	N/A	N/A	N/A	 2024-No progress to date. 2023- The list continues to be static. Our group continues to analyze new funding programs coming from State and Federal sources and will revisit this list for match/partner opportunities. 2022 - The list of potential funding partners was completed and is now static. As our group analyzes the new funding programs coming from State and Federal sources, we'll revisit this list for match/partner opportunities. 2021 - We are on track to complete the list of potential funding partners during 	2022: Extended the timeline to account for new BIL funding being distributed through State and Federal programs through 2026.		
3.20C	Public/private Farm BMP sponsorship program	Utilize REAP program to leverage funding, sponsor farmers who perform BMPs and pay them cash from tax rebates that corporation receives from funding the program	Conservancy, Chesapeake Bay	Centre County	2024-2025	Corporate interest,	Initial coordination	N/A	N/A	N/A	 2024- No progress to date. 2023 - No progress. See progress under 3.20B as this is a companion initiative. 2022 - No progress. See progress under 3.20B as this is a companion initiative. 2021 - See Initiative 3.20A for progress as this is a companion initiative. Rather than having private donors provide funding to Centre County, the goal of the Millersville University project was to suggest to companies to sign up to be a REAP sponsor. 	2022: Extended the timeline to account for new BIL funding being distributed through State and Federal programs through 2026.		

4.1A Incor quali	Description			Groop action	has hoon comp		2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY 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													
Priority Initi 4.1A Incor quali	Description			Green - action	has been comp	pleted or is moving forward as p	Red - action has not been taken or has encountered a serious barrier													
Priority Initi 4.1A Incor quali	Description		Responsible	Geographic	Expected	Potential Implementation	Resources	s <u>Available</u>	Resource	es <u>Needed</u>	Annual Progress to Date	Reason for Change								
4.1A Incor quali		Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item								
4.1A Incor quali	iative 4: Research.	Education, and Train	ing			•					•									
quali		Successful data	<u> </u>	Countywide	2021-2025	Data precision, QAQC,	Data QAQC	N/A	N/A	N/A	2024- The Bureau of Watershed Restoration and Nonpoint Source Management	2022: Extended the timeline as the concept continues to evolve and improve.								
			Water Resources Center	county mac			and training	,,,	,,,,	.,,,	created a survey for conservation districts to fill out related to water quality									
Cnes	sapeake Data Explorer/	ALLARM program by end of				landowners about local stream					monitoring. The survey asked where which watersheds were being monitored,									
	sapeake Monitoring	2021	Environmental Corps,			health and what they can do	Data Input				which parameters were being measured, and if the data is being submitted to									
Соор	perative database		PSU, watershed			about it					Chesapeake Data Explorer or the Chesapeake Monitoring Cooperative database.									
			associations								There is still no mechanism in place for submitting water quality data to these									
											databases in Centre County.									
											2023- Capacity changes with the Coordinator and Conservation Districts has pushed									
											the convening of the Watershed Specialists. We will reevaluate in 2024 if this									
											should be a priority at the County level or if it should be scaled to the State or Federal level.									
											2022 - ALLARM is in the process of developing citizen scientist monitoring data									
											collection protocols to assist with stream health data collection. Should the									
											protocol be approved, it will be shared with all Counties.									
											2021 - ALLARM worked with local partners to obtain data, clean and organize it to									
	ate additional water	Location identification,	· •	To be	2023-2025	Land access, expanded volunteer			-	\$10,000	2024- The Centre County Senior Environmental Corps (CCPASEC)has many sampling	2022: Extended the timeline as the concept continues to evolve and improve.								
-	, .	financial and volunteer	Water Resources Center	determined			salary budget		Collection for	EQUIPMENT	locations, including sites on Buffalo Run and Bald Eagle Creek. This includes physical,									
-	-	budget analysis, and initial landowner communication	– Spring Creek, Senior Environmental Corps,			budget, Consistent data collection, QAQC continuation	QAQC		new sites identified		chemical, and biological data collection. There is potential to increase the amount of sampling locations that this group has. Monthly water quality sampling is continuing									
	tre County	by end of 2021	PSU, local watershed			conection, QAQC continuation	QAQC		through CAP		to be conducted in the Halfmoon Creek and Beech Creek watersheds. Watershed									
Centi	tre county	by end of 2021	associations			Consideration to expand the			implementatio		Specialist can focus more on potential gaps in sampling, as well as QA/QC and if									
		CAST-21 acknowledgement				Keystone Water Resources			n		these datasets can be entered into the Chesapeake Data Explorer or the Chesapeake									
		of our data				Center to cover places like Bald					Monitoring Cooperative databases.									
						Eagle, Buffalo Run, etc. to get a														
		Map existing monitoring				continual basis					2022:In the fall of 2022, HRG will convene the Watershed Specialist to identify the									
		locations									largest "gaps" of water quality monitoring data, develop strategies to									
											comprehensively incorporate new data to support CAP efforts. Further, the									
		Expand monitoring based on									LandscapeU project that analyzed Centre County data sources/status will be									
		Corridors of Opportunity									included in a County-specific strategy to expand monitoring.									
		area monitoring gaps									2021 - See 4.1A progress									
											2021 - See 4.1A progress									
4.2 Enha	ance the capacity of local	Share each other's social	Spring Creek Watershed	Countywide	Ongoing	Continued coordination among a	Social media	Limited match	N/A	\$5000 per	2024- Watershed Specialist attends watershed association monthly meetings, assists	2024: Changed from red to green.								
	ershed associations for	media content	Commission, Bald Eagle	,		lot of active groups, keep project			-	•	with landowner connections and outreach, shares social media content for									
short	rt-term success and long-		Watershed Association,			leads list active so that				produce	watershed associations that have such materials, gives educational presentations,									
term	n sustainability	When developing water	Spring Creek Chapter of			watershed approach to grant				promotional	and helps with article writing and other agenda items.									
		quality projects, include	Trout Unlimited,			applications can be developed	Project			materials (hats,	CCCD have helped with the plans and foundation for the Spring Creek Watershed									
		them in the scoping/funding				well in advance of submittal	development				Commission's Conservation and Stewardship Committee. This committee has the									
		process	Unlimited, Penns Valley			deadlines, see if Spring Creek	support			for members	goal to increase the commission's capacity for outreach, event planning, and grant									
		M/hon we utilize /- br-i-	Conservation			Watershed Commission could					writing. The Bald Facle Creak Watershed Association is no longer active									
		When we utilize/obtain funding for outreach,	Association, Moshannon Creek			serve as the coordinating party					The Bald Eagle Creek Watershed Association is no longer active. We currently assist the Moshannon Creek Watershed Association with water quality									
		reserve some for partner	Watershed Association								sampling efforts as well as education and outreach.									
		promotional items (hats,									has assisted the Penns Valley Conservation Association with project planning and									
		shirts, etc.)									landowner outreach.									
		. ,									We are currently helping with National Trout Unlimited's AMD water quality									
		Encourage project									monitoring and culvert surveys in the Beech Creek watershed, as well as attending									
		implementation on the									the quarterly Beech Creek workgroup meetings.									
		watershed level so that									We have assisted with the Keystone Resource Center's educational water quality									
		these partners enhance									monitoring field trips.									
		their relationships with non-																		
		peers with a co-benefit of									2023- The CCCD has hired a new Watershed Specialist who will add capacity to this									
		diversifying their									initiative. HRG has also reconnected with the Spring Creek Watershed Commission									
		membership									and is helping build capacity with that watershed association to advance their project implementation goals.									
											2022 - County staff turnover resulted in a loss of communication between certain									
											county staff and local watershed associations. Those conversations have begun									
											again. Social media content will continue to be shared and relationship between									
											county and local watershed associations rebuilt.									
											2021 - COVID-related restrictions and delays on last year's projects have resulted in									

	2024 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY														
	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 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 Responsible Geographic Expected Potential Implementation Resources Available Resources Needed Annual Progress to Date Reason for Change														
			Responsible	Geographic	Expected	Potential Implementation	Annual Progress to Date	Reason for Change							
Action #	Description	Performance Target(s)	Party(ies) and	Location	Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2024)	to Action Item			
4 .3	Farm decision maker trips to-	Two trips per year, increase	CBF, CCCD, NRCS,	Centre County	Fall and Spring	Promotion to increase	N/A	Trip	N/A	\$2000 per year	2022 - This program has not picked up post-COVID and needs a supplemental	2022: Focus on the communications strategy so that we're more strategic about our			
	showcase BMPs that work	participation by 10% each	County Farm Bureau		of each year	participation each year, expand		coordination-		to expand	funding source from CBF. Educational trips will continue to be a communications	human/financial resources.			
		year				logistics/# of local and Bay trips		and field		resources	strategy.				
						to allow for increased		facilitation							
						participation, consider-					2021 - Initial steps have been taken to determine if a trip can be scheduled for Fall				
						alternative transportation-					2021. COVID restrictions condensed the amount of time in 2021 where the trips				
						options to canoes if it helps to					could realistically occur.				
						scale up the initiative									