	2023 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY													
			G	reen - action has b	een completed or is	moving forward as planned	(ellow - action has encount	ered minor ob	stacles Red - action	has not been taken o	has encountered a serious barrier			
Actio	n Description	Performance Target(s)	Responsible	Geographic		Potential Implementation	Resources Avail	able_	Resourc	es <u>Needed</u>	Annual Progress to Date	Change		
#		- ' '	Party(ies) and	Location		Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item		
Prio	rity Initiative 1:	County Programmatic Initiati	ves					•		•				
_		Develop an integrated water plan to		Countywide	2022	Connect County plans in	Existing Perry County	TBD – Will	1 – FTE Clean Water	\$130.000 per year	2023: Insufficient funding to address Act 167 as part of a fully integrated approach. PADEP			
			County	,		meaningful ways to meet local	· , ,	require a	Coordinator for	, ====, === per , ===	officials stated CAP money cannot be used.			
			Comprehensive Plan,			water quality goals	Comprehensive Plan	substantial	Planning					
	-	that incorporate water quality goals	Hazard Mitigation			, , ,	'	revision	Commission		2022: Met with DEP to discuss the opportunity and there are no available resources to support			
		to define more precise goals and	Plan, Perry County								plan development. The County Comprehensive Plan is 75% complete and will be complete this			
		leverage resources.	Greenways, Parks,						1 – FTE Clean Water		year.			
			Recreation and Open						Coordinator for	\$130,000 per year				
			Space Plan, Act 167,						Conservation		The need for stormwater ordinances will continue to be a priority.			
			Act 537 Plans, Source						District					
			Water Protection,								CAP implementation is specifically called out as a goal in the County Comprehensive Plan.			
			existing TMDLs						Plan development					
										\$150,000 for plan				
										development				
1.2/	Implement	Encourage that growth activities	County	All 30 Perry	Ongoing	Educating municipalities,	Outreach and	\$62,100 (A	2 – Municipal	\$280,000 per year	2023: Continue to support municipal efforts found to be consistent with the PCICTURE PERRY			
		address existing water quality	Commissioners, Perry	,		updating local plans and	Education	portion of	Engineers	, ====, === per , ===	Comprehensive Plan. In 2023, there has been support for two water system improvement			
	Comprehensive	impairments through stormwater	County Planning	Municipalities		ordinances, growth areas not		the budget)			projects in Duncannon Borough and Penn Township.			
	Plan policies	BMP implementation already	Commission,	, i		consistent with Census	Plan Preparation							
	and actions	required by local ordinance	Municipal Governing	Prioritize public		urbanized areas	encouraging buy-in with		1 – municipal	\$130,000 per year	2022: There will be a new slate of implementation to follow adoption of the update to the			
			Bodies, Municipal	spaces		Venue space for in-person	the Perry County	All 30	planner		Compressive Plan in December. More detail to come next year.			
		Annual review of municipal	Planning			meetings.	Comprehensive Plan (One							
		comprehensive plans for action	Commissions,				size-fit-all approach)	s are eligible						
		items providing water quality	Municipal Zoning			Limited staffing.								
		benefits	Officers, Perry County			Manadata al Officiale bassa	Ordinances preparation		1 – FTE Clean Water	\$130,000 per year				
		A manual addicitation of manualsinal	Greenways, Parks,			Municipal Officials have a	Fielded. ead eaches		Coordinator for Planning					
		Annual solicitation of municipal interest in the Local Planning	Recreation and Open Space Plan			tendency to chart their own direction.	Field work and project identification		Commission					
		Assistance (LPA) Program	Space Flair			direction.	identification		Commission					
		Assistance (Er A) Frogram				Outdated Municipal plans and	Held 30 meetings with the							
		Encourage the adoption of stream				lack of action attending to	Natural Resources and							
		buffering and natural resource				water quality.	Recreation Workgroup and		1 – Administrative					
		protection ordinances					the Economic Issues		Assistant	\$75,000 per year				
		3,000 acres of forest conserved					Workgroup (15 apiece)							
										\$2,000 per acre of				
										forest easement 2				
										\$6M total				
1 25	Prepare an	Develop Basic Studies component	Multi-partner effort	Perry County and	2021 and ongoing	Encouraging 100% buy-in from	Current County	PCPC Rudget	; 1 – FTE Clean Water	\$130 000 per year	2023: Continue working to get the eight remaining municipalities to pass resolutions adopting			
1.21	updated	The state of the s	· ·	Multi-Municipal	ZOZI GIIG OIIGOIIIG	municipal governing bodies to	•	_	Coordinator for	2130,000 per year	the plan.			
			Commissioners, PCPC,			adopt the county plan for their		,						
	Plan	items)	all interested			own use. Local control/	Plans; 2020 US Census		Commission		2022: Adoption of updated Comprehensive Plan will be by the end of the year. Next steps will be			
			municipalities, PCCD,			increased enforcement may	figures; community	through a			determined in 2023.			
		Develop the Plan (Framing our	PC EMA, etc.			be a barrier.	surveys	MAP	9 community					
		Future)						Program	surveys to be	\$150,000 for updated				
								Grant		comprehensive plan				
		Develop the Action Plan (Picture in							draft reports					
		Motion)							prepared for					
									municipal projects					

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1.2C	Source Water Protection Plans	or degradation.  Work with municipal authorities to	Bloomfield Borough Council, New Bloomfield Water Authority, Blain Borough, Millerstown Borough, Newport Borough?, Liverpool	Bloomfield Borough Blain Borough	Ongoing	Overcoming lost farm revenue where BMPs take up crop land and pastureland.  Educating local farmers on the municipal well recharging areas.  The ability to provide real value in exchange for anticipated land production loss in areas where manure application should be reduced.	Coordination of meetings and continued education.	Bloomfield Borough	1 – FTE Clean Water Coordinator for Planning Commission  Manure application offset expenses to reduce manure application to certain well influencing areas.		2023: Attended an annual review meeting for the Bloomfield Borough Source Water Protection Plan.  2022: HRG and Perry County explored options with PA DEP to develop SWPP's. PADEP mentioned they are available to assist with new plan development, but no further progress to date. Work to identify potential municipalities in the fall.			
1.2D	to establish riparian buffers to stabilize stream banks	Identify landowners willing to participate and work with the following partners to identify (5) buffer opportunities – 41 forested riparian buffer acres (portion of Action 3.6)	Municipalities, Conservation District, PCPC, NRCS, CBF, watershed groups, Central Pennsylvania Conservancy	Countywide  Prioritize public land: Lynn Sheaffer Dum Memorial Park, Millerstown Park, Wagner Park, Alta Nage Park, Little Buffalo State Park, Marysville Lions Club	5-10 years	Adopting ordinances, may require a pilot project in a willing municipality to demonstrate success.  Lack of technical assistance to support implementation goals for forest buffers.  Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.		Portion of County Planning Budget	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year  Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract \$410,000 total	2023: Baken Creek remains a target area with interested landowners and will be revisited this fall.  2022: PCCD's Watershed specialist is focused on 15 square miles for buffer restoration and protection work in the Montour and Baken Creek watersheds.  A Baken Creek Outreach event was held in October of 2022 where 29 landowners attended. Of the 29, 14 are interested in planting buffers.  Additionally, PCCD's intern used aerials to identify current buffered areas and incorporated into GIS. PCCD will use this data to identify gaps in buffer coverage which will lead to targeted outreach.  Through PCCD's partnership with Keystone 10 Million Trees distribution, technical assistance and promotional incentives engaged over 80 landowners to plant trees as buffers.			
1.3	Plan – prepare an updated Act 537 Plan	One-time adoption of ordinance with enforcement, inspection, and tank pumping.  Prepare grants, develop basic studies component, develop the action plan	Interested municipalities, Board of Commissioners, PCPC	Municipalities  Howe – Township recently introduced pumping schedule	2024: 2nd year is implementation	Landowner education will be needed to promote proper onlot septic system maintenance.  Encouraging 100% buy-in from municipal governing bodies to adopt the county plan for their own use.  Funding limitations and enforcement of Act 537.	- Plan; Municipal Act 537 Plans; 2020 US Census figures, Pumping Schedules	PCPC Budget; Potentially supplemente d by PA DCED through a MAP Program Grant	Inventory of latest municipal sewage facilities 1 – FTE Clean Water Coordinator for Planning Commission	\$125,000	2023: Staff is currently working to establish a Community Facilities and Utilities Workgroup to cover implementation of this particular section of the PICTURE PERRY comprehensive plan.:  2022: No progress to date.			

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#	Description	remainee ranges(s)	Party(ies) and	Location	Lapected Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item	
1.4	Implement County Hazard Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality  Encourage municipal officials to enact stormwater management ordinances consistent with Act167 and Act102  Maintain current capital improvement list – update on annual basis	County Planning Commission,	29 of 30 Municipalities, only exclusion is Landisburg Borough (no floodplain is mapped)		Funding, land for BMPs, site constraints for enlarging culverts/raising bridges.  Enforcement and compliance of stormwater ordinances.	Existing digital floodplain mapping	None/Not applicable		\$130,000 per year \$100,000 \$186,000 project implementation, obligated 10% of the project cost	2023: Third review of the annual update is in August of 2023. Consultant selected to undertake the next Hazard Mitigation Plan update.  2022: Second review of the annual update is in August of 2022.		
1.5	Act 167 Plan Development	Phase 1: Prepare Grants, Inventory of waterway obstructions, look to incentivize ordinances to protect water quality  Phase 2: Prepare Grants and Plan Preparation	PCPC, all municipalities, Board of Commissioners, multi partner needs	Countywide	2021 - 2025	Should local involvement exist, additional responsibility for enforcement.  Find funding to develop a Countywide Act 167 Plan.  Lack of DEP funding for plan update.	Institutional knowledge		1 – FTE Clean Water Coordinator for Planning Commission Consultant		2023: Held virtual meeting with PADEP Act 167 staff to discuss how Perry County Could move forward and be recognized having an Act 167 Plan. In the absence of sufficient state funding for this approach, staff may need to shift its direction to more of a hybrid model of a countywide stormwater management plan. The Perry County Board of Commissioners will have to determine the direction from a list of options.  2022: The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Perry county currently has no Act 167 plan, but with new funding plans to explore opportunities to develop an Act 167 Plan.  Look to establish a municipalities meeting in 2023 to discuss municipal ordinances and begin exploration of Act 167 plan development.		
1.6*	County Farmland Preservation Program with farmland preservation program incentives	Total farmland preservation (69 farms in program currently – approx 9844 acres)  4 additional farms will be added by 2022 totaling 10,500 acres  Look to fund 1-2 additional farms per year in preservation program.  – 10,700 acres of farmland conservation	Lancaster Farmland Trust and Perry County Farmland Preservation Board, NRCS, Perry County Greenways, Parks, Recreation and Open Space Plan	Ag land use areas that fit farmland preservation criteria	explore incentive opportunities	Time/technical assistance to coordinate preservation plans with funding and technical assistance  Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide.  Sharing NRCS data is challenging.	Priority recommendations, easement revision recommendations, supplemental BMP funding research		Preservation Staff Administrator 1 – FTE Clean Water	\$130,000 per year \$130,000 per year \$250,000 per farm funded, total of 8 farms à \$2M	2023: 1 farm preserved in 2023 totaling 160.32 acres. 4 properties are in the pipeline for preservation in 2024.  2022: Continuing to preserve farms using RCPP and ACEP funds. 10,000 acres have been preserved to date.  A connection between NRCS planning and farmland preservation would assist us with advancing our preservation strategy which includes pairing state funding with NRCS funding. A full time staf person filling both roles would accelerate the program.  Two farms totaling 222 acres were preserved in 2022, and there are 27 farms remaining on the ranking list.		

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1.7*	Establish	Approximately 100 farms have their	PCCD, Contracted	Countywide	2021-2025	Limited compliance activities	Field verification,		6 – additional Ag	\$780,000 per year	2023: FPW was awarded a Growing Greener grant for \$800,000 that will support 12 counties,	
	funding and	plans (Conservation/ Ag E&S and/or	planners, Act 38			by DEP.	troubleshooting		Planners to provide		including Perry, with farm outreach, planning, permitting, and project design. Outreach is	
	staff support to	nutrient/manure management	operators, preserved						technical assistance		planned to begin in the fall.	
	assist the	plans) in Perry County, goal is to	farms, Organic			Lack of Technical assistance to	Site visits and plan review		and ag planning			
	Agricultural	complete 200 by 2025.	Farmers, Integrators			support the farming					2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant totaling	
	community &					community.	Inspections – 50 per year,		3 – FTE Design,		\$1.6 million to support additional ag engineering needs along with increased farm visits. In 2021	
	conduct one or	Work with private ag consultants to					1 hour per plan for data		Engineer, Permit	\$420,000 per year	Lancaster Farmland Trust completed 20 farm visits. In 2022 the Lancaster Farmland Trust will	
	one farm	document plan reporting.				Private sector Ag plans are no	entry, 3 hours per				complete an additional 10 farm visits.	
	outreach visits					required to be shared with	inspection (some		3 – FTE Inspector			
		Implementation challenges				District staff.	operations much longer)		Construction	\$315,000 per year	Agriculture Conservation Assistance Program (ACAP) was announced in the Pennsylvania State	
	759 farms exist								Services		Budget in July of 2022. This program will provide all counties in Pennsylvania with funding	
	in Perry County	In order to communicate effectively				All counties will work with Act					totaling \$154 million over the next 3-years to support Ag project implementation and technical	
		with the farming community one on				38, Preserved farms and			1 – FTE Clean Water		assistance needs.	
		one farmer outreach must be				organic farms to report Ag			Coordinator for			
		conducted.				E&S and NRCS Conservation			Conservation	\$130,000 per year		
						Plans. These operations are			District			
		The most effective way to capture				required to have them, but no						
		and report BMPs is through one-on-				requirement to report the			1 – Administrative			
		one farm visits. Farmers do not				plans. It is recommended state	9		Assistant			
		participate in surveys or other				agencies make changes to Act						
		methods.				38 and farmland preservation				\$75,000 per year		
						programs to require						
						PracticeKeeper reporting.						
1.8	Juniata River	WPC applied for DCNR C2P2 grant to	Western	Juniata River	2021 – Conservancy	Performance Target		DCNR Grant	1 – FTE Clean Water	\$130,000 per year	2023: Update from WPC:	
	Watershed	update the Juniata River Watershed	Pennsylvania	Watershed (Blair,		Continued: Our goal is			Coordinator for		Developed a public survey to garner input from constituents in the watershed. So far, 67 people	
	Management	Management Plan. CAP can help	Conservancy,	Fulton,	options	basically to update the existing	g		Planning		have filled out the survey. Survey was advertised on social media by WPC and all members of the	
	Plan	leverage funding for the Juniata	Chesapeake	Huntingdon,		plan with work that has been			Commission		steering committee. A flyer was made with a QR code for advertising. WTAJ also featured a	
		River Watershed Management Plan.	Conservancy	Juniata, Mifflin,	2022 – outreach	done since the original plan,					snippet on television and their website advertising the public meeting and the survey. A few signs	5
	Identify a rapid			Perry)	and planning	do some more in-depth GIS			1 – FTE Clean Water		featuring the QR code were developed and set up at Nature Works Park and the Blair County	
	delisting	Work with the Chesapeake				analysis, and get public and			Coordinator for	\$130,000 per year	Conservation District.	
	watershed as	Conservancy to rapidly delist a			2023 – start	municipal input into what the	/		Conservation			
	part of the	watershed within the Juniata River			implementation	see are the issues in the			District		Developed a municipal survey to get specific input from municipal officials. 35 municipalities	
	plan.	Watershed Plan.				watershed. I think the GIS					have participated.	
						analysis will be a big part of						
						the process. We're planning					Held 3 public meetings with 29 people. Public meetings were held in Blair, Bedford, and Juniata	
					The second secon					T		

on using the new 1-meter resolution data set,

incorporating some of the

buffer gap analysis work from

Chesapeake Conservancy, etc.

WPC applied for

Rapid Delisting

Juniata watershed.

about the watershed.

attendance.

Program Budget \$1M people in attendance.

match

Counties. Gathered input about issues and concerns in the watershed, as well as positive aspects.

Presented about the plan update to the Blair County Planning Commission with 14 people in

By the end of 2023, we will have garnered initial public input and begin to gather resource data

2022: Juniata Watershed Management Plan Update is a DCNR grant that will cover the entire Juniata River watershed. The planning process will include partners from the county conservation districts in the watershed, Juniata College, St. Francis University, Chesapeake Conservancy, HRG,

Foundation for PA Watersheds, Little Juniata River Association, and county planning commissions. Project will start with a kick-off meeting late summer/early fall.

\$37,785 with \$37,286 Attended Blair County Earth day event. Had in-depth conversations with 21 people about the

Approach Project and Presented about the plan update to the Blair Intermunicipal Stormwater Committee with 16

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1.9/	Water quality	Develop messages and audience;	CBF, Chesapeake	Countywide	2022 – 2025	Simplifying the resources that	ArcGIS Hub Website		Website	\$10,000 per year	2023: PCCD continues to incorporate water quality into communications into the County				
	communication	execute plan and distribute	Conservancy, NRCS,			are available, targeting Perry			development and		including mailings, social media posts, and outreach events.				
	plan,	messaging through staff and	PCCD, TCRPC, Private			County farmers and other	1 – lead county contact		continued						
	leveraging	partners	Sector Agriculture			landowners.	, , , , , , , , , , , , , , , , , , , ,		maintenance		2022: The DPJM Countywide Action Plan website listed in the Performance Targets has been				
	existing		Farm Visits,								updated to include information about implementation of the Countywide Action Plans.				
	_	Utilize the DPJM County Countywide	'			Sharing staff resources across			1 – FTE Marketing	\$130,000 per year	Additionally, a GIS tracking data base has been added to capture the location of potential				
		Action Plan (arcgis.com) - ArcGIS	Bureau			the 4-county region.			and Outreach	7130,000 per year	projects.				
	including	website as a source of consistent	Darcaa			the 4 county region.			Coordinator		projects.				
		communication							Coordinator		Cocolamus Creek is undergoing the development of an alternative restoration plan to address				
	Plan, Hazard	Communication							1 – FTE Clean Water		nutrients and sediment. The plan is set to be finished by the end of 2022. Utilize the TMDL as				
									Coordinator for	\$130,000 per year					
	mitigation plan, Act 167,								Planning	בב, טטט,טטט per year	messaging leverage.				
									ŭ						
	Greenways								Commission						
	Plan, Perry														
	County Water														
	Supply Plan														
	Utilize existing														
	TMDLs as part														
	of the														
	messaging														
										1					
1.9	Agricultural	One on one farm outreach is the		Countywide	2022-2025	Funding to support the		PCCD -	6 – additional Ag	\$780,000 per year	2023: Will continue to utilize LFT with 25 visits planned, as well as the FPW Growing Greener				
	Communicatio	best way to communicate with	Bureau, Integrators,			technical assistance required		portion of	Planners to provide		grant outreach.				
	n Strategy	farmers in addition to reporting	County Farmland			to complete one on one farm		funding	technical assistance						
		practices. Work to develop a plan to	Preservation Board,			outreach			and ag planning		2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action	า			
		complete one on one farm visits.	PSU Extension, NRCS,								Plan. In 2021 20 farm visits were conducted and in 2022 an additional 10 visits are scoped. The				
			CBF			Outreach to integrators is a			1 – FTE Marketing		Foundation for Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County				
		Work to develop a communication				challenge due to the number			and Outreach	\$130,000 per year	Investment to Catalyze Agricultural Project Readiness that would support rapid scaling up of farm	ı			
		plan to engage integrators.				of integrators and multiple			Coordinator		visits within Perry County. Scaling up of farm visits would allow for additional outreach to occur.				
						county boundaries they serve.									
		Attend private partner ag meetings				It is recommended			1 – FTE Clean Water						
		to provide information.				DEP/PDA/SCC communicate			Coordinator for						
						with integrators on a frequent			Conservation	\$130,000 per year					
		Utilize Farm Bureau Newsletter for				basis to reduce mixed			District						
		announcements				messages.				See 1.9A for website					
						_				costs.					
										Costs for meeting					
										attendance and					
										administration would					
										be covered through					
	1						1			se covered unrough					

other funding requests.

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Prior	ity Initiative 2:	Reporting and Tracking												
		Expand use of existing buffer layer	Local University or	Countywide	2022 – cataloguing	EPA acceptance of the	Precision Conservation	N/A	Further GIS and data	\$46,000 (2022 only)	2023: No progress to date, but with new District staff being hired throughout the year, the			
		with urban hydrology layer	Students who live	,		approach, further refine	Tools	.,	processing/method	, , , , , , , , , , , , , , , , , , , ,	District will be exploring ways to integrate BMP verification into staff roles and capacity.			
	(quantity and	, 5, ,	locally but attend			guidance in QAPP so that			refinement					
	location) for	R&D into distinguishing ag, pasture,	nearby Universities,		2023 – Practice	counties can accomplish this	General methodology				2022: In December of 2021, Perry County was awarded \$30,000 to conduct Phase 1 of a			
	select BMPs,	and turf covers from grassed buffers			Keeper batch	or so that the State can take	outline		5 – Student	\$50,000 per year	multiphased BMP verification remote sensing effort. Perry County elected to use a portion of the			
	expanding on		Conservancy,		upload processing	the burden off of counties,			Internships to		money for a remote sensing analysis focusing on five priority BMPs including: Barnyard Runoff			
	general	0 0	Stakeholder peer		and field views	utilize the approach to	BMP field backcheck		Support CAP		Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and			
		ft resolution imagery is available	review - USGS, Farm			catalogue existing BMPs and			Implementation		Streambank Exclusion Fencing. Remote sensing data analysis performed by the Chesapeake			
	ons provided in	5 1 1 1 11 1 16 6 11 1	Bureau,			do on the ground verification					Conservancy is being finalized in August of 2022 and results are provided in an online ARC Gis			
	QAPP	Back check with staff field views,	PDA, EPA			where required for reporting					Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely			
		where required				purposes, this is an accelerated BMP reporting			6 – additional Ag	\$780,000 par year	identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts. In April of 2022, the Foundation for Pennsylvania Watersheds applied for			
	BMPs = forest	Add data to Practice Keeper or				catchup approach while we			Planners to provide	\$780,000 per year	a NFWF Most Effective Basins grant to support Phase 2 of the BMP verification analysis in the			
		another batch upload option				continue to provide support to			technical assistance		MEB in Perry County. Initial results from Phase 1 look excellent in providing opportunities to take			
	forest buffers,	(FieldDoc)				farmers on planning and BMP			and verification		credit for practices on the ground that are not currently reported.			
	grass buffers,	, ,				installs, reduce the amount of			support		, ,			
	urban grass					interruption of government								
	buffers,					entities to compliant farm								
	manure					operations								
	storages,													
	grassed													
	waterways,													
	wet ponds and wetlands,													
	fencing													
2.2*		BMP opportunity analysis – ag	Lead - Chesapeake	Marysville	2022 – cataloguing	Different data set	Precision Conservation	N/A	Further GIS and data	\$46,000 (2022 only)	2023: As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake			
		conservation, land retirement,	Conservancy	Borough		scales/precision	Tools	.,	processing/method	, , , , , , , , , , , , , , , , , , , ,	Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning			
	project	alternative crop, forest	·						refinement		Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs			
	opportunities	conservation, stream restoration	Stakeholder peer	Countywide	2023 – batch						for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities			
	using		_	where feasible	upload processing		Batch upload processing		5 – Student	\$50,000 per year	at the field scale some have direct equivalents to Bay Program BMPs, while others do not.			
	automated	Back check with staff field views	SHIP/PSU/Etc.		and field views				Internships to		Since there are many assumptions made to produce these opportunity footprints across the			
	means		University, USGS,						Support CAP		entire watershed, they are not intended to be ground truth and should only serve as a high level			
		Batch upload to FieldDoc to	Farm Bureau, PDA,		2024 – 2025 –		BMP field backcheck		Implementation		reference for helping to plan efforts in combination with expert on-the-ground input. The			
		calculate credit opportunity	Marysville Borough,		implementation						outputs are expected to be publicly available after June 2024.			
			Municipal Engineers, PCPC		focus						2022: No progress to date.			
											2022. No progress to date.			
2.3*	Develop a local	Add development related BMPs to	Municipal engineers,	Urban/suburban	2022	Currently municipalities are	Reporting platform	N/A	Training	N/A	2023: No progress to date.			
		PK/FieldDoc so that as land use data		landscape		not collecting BMP data								
	capture data	sets are updated, there are	Conservancy, PCPC,			because it is not required in			5 – Student	\$50,000 per year	2022: The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins			
	collection on	accompanying BMPs	Municipalities			non-Municipal Separate Storm			Internships to		grant in April of 2022 to support Phase 2 of BMP verification remote sensing analysis. Phase 2 will			
	urban					Sewer System (MS4)			Support CAP		include analyzing wet ponds and detention basins in urban areas across Perry County. PA DEP has			
	structural and					communities. Must incentivize			Implementation		updated FieldDoc to allow for additional reporting of urban practices.			
	non-structural					communities to report, no			1 Name is to all	¢120,000				
	practices					existing system in place.				\$130,000 per year				
									Planner		I			

	2023 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY												
			G	ireen - action has b	peen completed or is	moving forward as planned	Yellow - action has encount	ered minor ob	stacles Red - action	has not been taken o	r has encountered a serious barrier		
Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline	Transaction of the Control of the Co	Resources Avail			es <u>Needed</u>	Annual Progress to Date	Change	
#	·	J ( )	Party(ies) and	Location	·	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item	
<del>2.4*</del>	Implement a- documentation	Support fertilizer legislation — where legislation requires reporting, be the		<del>Countywide</del>	<del>TBD</del>	Education of responsible parties, receiving timely	TBD based on fertilizer- legislation if passed	<del>fertilizer</del>	1 — FTE Clean Water Coordinator for	\$130,000 per year		Counties are awaiting direction	
	program for commercial and homeowner	data clearinghouse  Legislation will support the implementation of Urban Nutrient				information, training on- reporting system, will need- direction from State on what's expected and any reporting		legislation if passed	Planning Commission	Urban Nutrient Management \$10 per	2022: On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yav (R) and Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrassfertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting will occur with the new bill.	from the PA	
	nutrient- applications in- developed- lands	Management — 1,200 acres				system that's developed.				dere > \$12,000	accumentation and creating will occur with the new bill.	public education on this new law.	
	Support- current- legislation for- fertilizer bill-												
2.5*	Improve	·	DEP, PCCD, NRCS,	Countywide	2022-2025	Private sector ag planners do	Technical Support to enter			\$50,000 – paid	2023: PCCD utilized the Capital RC&D Transect Survey to verify their 2022-2023 Cover Crop		
	Agricultural	PracticeKeeper	PDA, NRCS, Perry			not have access to	plans into PK		for reporting and	internships	Program.		
	BMP reporting		County Farm Bureau,			PracticeKeeper. County Ag			verification				
	utilizing	Work with Capital RC&D to improve				planners do not have time to				See 3.5 for funding	2022: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd		
		current transect survey routes to be				report private sector plans				needs to improve	Party Module. PADEP initially released the module in June of 2022 before recalling the system for	or	
	Capital RC&D	more inclusive	Conservancy, PSU			into PK.				cover crop reporting	additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA		
	Transect		Survey, Manure							for capital RC&D	Watersheds includes budget for interns from Susquehanna University to enter BMPs into		
	Survey, PSU	Work with PSU to produce better	Brokers			Current Capital RC&D routes					PracticeKeeper.		
	Survey,	response rate to the PSU survey for				are not all inclusive and could							
	Manure	Perry County				be improved.							
	Transport												
	Reporting and	Work with PDA/DEP to improve				Current response rates are							
	Remote	manure transport reporting				low and miss a large							
	Sensing					demographic of Perry County							
						farmers.							
						Manure brokers are not							
						required to report data							
						annually. Data is not inclusive.							
2 6*	Ensure	Work with Water, Sewer and Waste	Marysville Borough	CSO and Waste	2022-2025	Need DEP to work with waste	Municipal Engineer		1 – FTE Clean Water	\$130 000 par year	2023: Staff is currently working to establish a Community Facilities and Utilities Workgroup to	+	
2.0	accurate	•	just applied for	Treatment	2022-2023	facilities to accurately	Manicipal Engineer		Coordinator for	7130,000 per year	cover implementation of this particular section of the PICTURE PERRY comprehensive plan.		
		document plant upgrades to capture		Facilities		document plant upgrades.			Planning		cover implementation of this particular section of the Fierone Fench comprehensive plan.		
	Water, Sewer	nutrient reductions.		. delinies		Need reductions to be			Commission		2022: This fall, collect upgraded facilities data and coordinate with PADEP to ensure reductions		
	and		Newport is doing			accurately captured in CAST.			23		are being credited in CAST. Utilize the monthly meeting to coordinate efforts.		
	Wastewater		storm sewer			and a confidence in critical			1 – FTE Clean Water		and a sum of the state of the s		
	Treatment		separations			Work with DEP to determine				\$130,000 per year			
	Plant nutrient					how composting helps to			Conservation	7 =00,000 pci ycui			
	loading and		Suez (private			reduce nitrogen and			District				
	plant upgrades		sewer/water utility)			phosphorus. Accurately				\$TBD Infrastructure			
	, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,			document				Funding			
											l .		

	2023 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY													
				Green - action has	heen completed or is	moving forward as planned	/allow - action has encoun	tered minor oh	stacles Red - action	has not been taken o	r has encountered a serious barrier			
Actio	n Description	Performance Target(s)	Responsible	Geographic	Expected Timeline		Resources Ava			es Needed	Annual Progress to Date	Change		
#	Bescription	r ciroimance raiges(s)	Party(ies) and	Location	Expected Timeline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item		
Prio	ity Initiative 3	: Achieve New Pollutant Reduc	ctions											
3.1		Partner to include CAP Goals into	PCCD	Baken Creek	2021-2022 (plan	Lack of technical assistance	Engineering Tech	\$10,000 in	1 – FTE Clean Water	\$130,000 per year	2023: PCCD continues to advance the ARP. Two outreach events have occurred in Baken Creek			
	of watershed	the development of the watershed		Watershed	developed)	and funding to support with		stream	Coordinator for		and a live stake program has been created in 2023 targeting the watershed. PCCD will investigate	'		
	plan for Baken	plan.				BMP implementation.		monitoring	Conservation	\$1,000,000 for	319 for project implementation in the watershed.			
	Creek				2022-2031				District	implementation of				
		Mimic the Chesapeake Conservancy			(implementation					Baken Creek Plan	2022: ARP has been completed. PCCD plans to apply for 319 funding in 2023 to aid			
		Rapid Delisting approach for this			begins)						implementation.			
		watershed												
		Add 2 instream monitors logging												
		real time data (streamflow,												
2.2*	Help farmers	turbidity, nitrate) Soil and Water Quality	4R Alliance, PCCD,	Countywide Ag	2022-2025	Lack of DEP inspections.		+	6 – additional Ag	\$780,000 per year	2023: Lack of certified planners continues to be an impediment for this goal.	Goal was		
3.2	and operators	Conservation Plans (Ag E&S) 13,300		Land	2022-2025	Reporting and verification of			Planners to work	\$780,000 per year	2023. Lack of certified planners continues to be an impediment for this goal.	increased to		
	to be in	36,000 acres	Bureau, NRCS, Private			Ag Plans, NRCS plans expire			with farmers to	\$15 per acre for a	PCCD has hired a new District Manager, Watershed Specialist, and Nutrient Management	reflect number of		
	compliance		Sector Agriculture			and do not get reverified,			develop required		Technician in services of this initiative.	acres already		
	with state and		Farm Visits, PA			private plans are never			plans	10101 0031 01 \$133,300	reclinician in services of this initiative.	associated with		
	federal		Sustainable			entered.			pians	\$15 per acre for a	2022: An additional 2,200 acres of Conservation Plans and 1,800 acres of Core Nutrient	plans.		
	requirements:	·	Agriculture (PASA),								Management was reported in 2021 compared to 2020 reporting.			
	Ag Compliance	·	ACT 38 farms,			Lack of Technical assistance to				, ,				
	and Nutrient	Work with Act 38 operators (33),	Preserved Farms,			support agriculture planning					As part as the Chesapeake Bay Technician Agreement, staff capacity will allow for 20 additional			
	Management	Preserved Farms (69), and certified	Integrators			and implementation, one on					plans for farms on an annual basis.			
	Plans	organic farms to document plans				one farm outreach is best way								
		required as part of their respective				to capture existing plans.								
		programs												
						Act 38 and Preserved Farms								
		Work with the submittal of Act 39				not required to enter plans in								
		Nutrient Balance Sheets for				PK, recommended to require								
		documentation				programs to enter plans into								
						PK.								
		Implementation challenges				Ctata agains must well-								
		(continued): Recommended for DEP to continue funding for Ag Plan				State agencies must work with integrators to ensure they are								
		development – CEG Program				requiring compliance by								
		acveropment CLO Flogram				farmers. Some integrators								
						require compliance, but not								
						all, great way to communicate								
						with farmers as well.								

						•	anned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier						
A - 1 -	n Dans de de	Deufeumen : Touriste)				moving forward as planned							
Actio	n Description	Performance Target(s)	Responsible	Geographic	Expected Timeline	· ·	Resources <u>Availa</u>			es <u>Needed</u>	Annual Progress to Date	Change	
#			Party(ies) and	Location		Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item	
3.3		_		Countywide Ag	2022-2025	Landowner interest, BMP	Educational support		6 – additional Ag	\$780,000 per year	2023: PCCD continues to use the supplemental form during annual status review of Act 38	Goal was	
	Nutrient	and nutrient management plans to	Perry County Farm	Land		verification burden (annual).			Planners to work		operations.	increased to	
	Management	document and report 4R practices	Bureau, NRCS, Private						with farmers to			reflect number of	
	(4R) Practice		Sector Agriculture			Lack of Technical assistance to			meet 4R standards		2022: No progress to date.	acres already	
	Education and	Increase existing 4R practice (N/P	Farm Visits, PA			support agriculture planning						treated.	
	Implementatio	Rate, Timing and Placement by	Sustainable			and implementation.							
	n	<del>1,800</del> 6,000 acres)	Agriculture (PASA)							\$10 per acre of			
						Additional funding to support				advanced nutrient			
						soil testing. Soil testing is key				management			
						to meeting the				planning per type 2			
						recommendations of				total cost for all is			
						supplemental BMPs.				\$108,000			
						Machine dependent for most							
						farming operations.							
						0 . 66							
						Cost of fertilizer is self-							
						regulating farmers to use less							
						fertilizer; therefore, lower							
						rates result.							
3.4*	' Implement	Determine feasibility of having a	PCCD, Perry County	Countywide Ag	2022 –	Capacity to manage the	Transect survey		6 – additional Ag	\$780,000 per year	2023: To date, 706.5 acres have participated in the PCCD No Till Drill program.	Goal was	
3.4	Practice to	, ,	Farm Bureau, NRCS,	Land	investigation	program, landowner interest	Transect survey		Planners to	\$780,000 per year	2023. To date, 700.3 acres have participated in the FCCD NO Till Drill program.	increased to	
	improve soil	enhance adoption of the annual	Private Sector	Land	investigation	program, landowner interest	4 - Existing No-Till farm		transition farmers to		For the 2022-2023 Cover Crop Program (its inaugural year), 2,929 acres were cover cropped. For		
	health and	' '	Agriculture Farm		2023 – next steps	Lack of technical assistance	equipment for Rent		high residue		the 2023-2024 Cover Crop program, 3,040 acres have been applied for the program.	acres already	
	sustainability	implemented.	Visits, PA Sustainable		2025 Hext steps	and farm planners to work	equipment for hent		ingii residue		the 2020 2024 cover crop program, 5,040 deres have been applied for the program.	treated.	
	(Tillage	implemented.	Agriculture (PASA)			with farmers to transition to			CD District shared		2022: PCCD purchased a no till drill in the spring of 2022 with CAP Block Grant funds to rent to	treateu.	
	Management	Implement tillage management and	riginouncure (i riori)			High Residue Tillage			No-till Drill	\$75,000 drill, with	farmers to implement no-till. To date the no-till drill has helped to plant 425 acres of High		
	and Cover	cover crops on an annual rate of	All partners need to			gage				maintenance	Residue Tillage Management. Additionally, PCCD is using the CAP Block Grant to administer a		
	Crops)	32,500 45,000 acres High Residue,	be on the same page,			Current verification methods			County PCCD – staff		Cover Crop Program. The Cover Crop Program registration closed in July and 3,218 acres of		
	' '	12,500 acres Conservation Tillage,	following the same			do not accurately capture			to administer the		farmland is registered to receive cover crops in the winter of 2022.		
		3,000 acres Low Residue, <del>17,000</del>	guidance.			implemented amounts – work			program	\$90 per acre	'		
		29,000 acres of cover crops and				with Capital RC&D to improve				· ·	From 2020 to 2021 CAST progress Conservation tillage reduced by 6,800 acres, however High		
		12,000 acres of cover crops with fall				Transect Survey Routes				\$1.53M for a 5-year	Residue Tillage increased by 8,100 acres.		
		nutrients				ŕ				total of \$7.7M			
						Farmers are harvesting cover				(incentive payment,			
		Implementation challenges				crops for forage, need				administration)			
		(continued): Organic farmers are				accurate efficiency crediting							
		using tillage to manage weeds and				for commodity cover crops				\$50 per acre fall			
		vertical tillage is becoming more								nutrients per year 🛭			
		popular among farmers.				Existing Cover Crop Programs				\$600K for 5-year tota			
						have strict plant by date that				of \$3M			
						does not work with changing							
						weather patterns and wetter				\$50,000			
						years							

			G	reen - action has h	een completed or is	moving forward as planned	'ellow - action has encount	ered minor ob	stacles Red - action	has not been taken or	has encountered a serious barrier	
Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline		Resources <u>Available</u> Resource			· · · · · · · · · · · · · · · · · · ·		
#	Description.	i crioimande raiges(s)	Party(ies) and	Location	Expected filleline	Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	Change to Action Item
3.5	Implement	Prescribed grazing – 3,000 acres		Countywide ag	2025	Landowner education, BMP	Landowner education	Existing	6 – additional Ag	\$780,000 per year	2023: Perry County Grazing Group, which has existed for three years, has 15-20 members who	
5.5	more pasture	Tresonaca grazing systematics	· · ·	lands –	2023	funding for non-buffer work,	Landowner education	funding	Planners to provide		continue to practice rotational grazing and act as a peer to peer network.	
	management	Off Stream watering without	Chesapeake	landowners who		plan updates, data gathering.		available	technical assistance and		continue to produce rotational grazing and act as a peer to peer network.	
	BMPs	fencing/pasture alternative	Conservancy, Capital			plan apaates, aata gathering.		avanable	ag planning		2022: Phase 1 of BMP verification identified 145 potential hits for streambank exclusion fencing.	
	2 5	watering – 1,800 acres	RC&D, PA Sustainable			Lack of Technical assistance to			3 – additional FTE	\$390,000 per year	This data set will allow for increased reporting of buffered acres with exclusion fencing.	
			Agriculture (PASA)	other pasture		support agriculture planning			environmental	2330,000 per year	and act and another the more cased reporting or surface act as as man endusion rensmig.	
		Forest buffers on fenced pasture	1.8.104.14.19	grazing animals		and implementation.			technician	Prescribed grazing \$540	Perry County Grazing Group, which has existed for two years, has 15-20 members who practice	
		corridor – 5 acres		B. azg aa.s		and imprementation				per acre 🛚 \$1.62M total	rotational grazing and act as a peer to peer network.	
		3 44.55				Old NRCS plans need to be				Off streets Materiae CCOO	Total on a grant out as a peer to peer nethorn	
		Grass buffers on fenced pasture				updated to comply with				Off stream Watering \$500 per acre 2 \$900K total		
		corridor – 20 acres				prescribed grazing definition –				per dere in 9500k total		
						difficult to get landowner buy-				FB Buffer W/ Exclusion		
		Land Retirement to Ag Open Space				in – fund alternative watering				\$10,500 per acre 🛚		
		– <del>200</del> 1,000 Acres				and fencing; most pastures are				\$53,000 total		
						streamside.				GB Buffer W/ Exclusion		
										\$2,750 per acre 2 \$55,000		
						Increasing construction costs				total		
						are resulting in canceled NRCS						
						contracts.				Land Retirement \$500 per		
										acre 2 \$100K total		
3.6*	Riparian buffer	400 riparian forest buffer acres,	CBF, Chesapeake	Countywide	2022 – line up	Landowner partnerships,	Materials	Budget	6 – additional Ag	\$780,000 per year	2023: PCCD has created a Livestaking Program targeting stream corridors and their riparian	Goal was
	and re-	(365) acres lost since 2017 need	Conservancy, NRCS,		landowners	landowner education,		available to	Planners to provide		buffers in County. 5 acres are planned for 2023.	increased to
	forestation	reverified	PCCD, Private Sector			volunteer acceptance of		be	technical assistance			reflect number of
	BMPs		Agriculture Farm		2023-2025 –	buffer plantings, buffer	Mapping	determined	and ag planning		2022: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest	acres already
		500 250 riparian grass buffer acres	Visits		implementation	maintenance guide for					buffers implemented in the past 10 years. These potential BMPs will need field verified but	implemented.
		<ul><li>(40) acres lost since 2017 need</li></ul>				farmers, routine site visits to			3 – additional FTE		provide a great opportunity to identify BMPs not currently reported.	
		reverified				confirm buffers are thriving,			environmental	\$390,000 per year		
						invasive species removal			technician		396 acres of riparian buffers have been verified and entered into PracticeKeeper.	
		250 acres – Agriculture Tree				during establishment.						
		Planting								Forest Buffer \$10,000		
						Flash grazing must be allowed				per acre 🛭 \$410K		
		6 acres – urban forest buffer				with buffer installation.						
										Grass Buffer \$2,500		
		1 acre – urban tree canopy				Funding program must include				per acre 🛭 \$1.2M		
						a 5-10-year maintenance						
		1 – acre of urban forest planting				program to establish buffers				Tree Canopy \$5,000		
						along with incentive program				per acre 🛽 \$5K		
						\$4K minimum per acre						
						payment.				Tree/Forest Planting		
										\$10,000 per acre 🛚		
						No extended lease or				\$2.5M		
						easement.						
3.7		5 50 - acres of Wetland Restoration	The state of the s	Countywide	2022 –2025	Willing landowner;	Landowner outreach		3 – additional FTE	\$390,000 per year	2023: No progress to date.	
	restoration		Conservancy, PCCD,			appropriate siting, design, and			environmental			
		30 - Acres of Wetland Enhancement				construction for successful			technician		2022: No progress to date.	
	_	and Rehabilitation	Agriculture Farm			restoration result						
	production ag		Visits, CBF						2 – stream biologist	<b>I</b> .		
	land	Identify 1 large property owner from	ו			Lack of technical assistance for				\$280,000 per year		
		University of Vermont restorable				landowner outreach and						
		wetland layer to help identify where				agriculture planning to						
		wetland restoration is feasible				identify potential site				Wetland Restoration		
						locations				\$30,000 per acre 2		
										\$1.1M		

## 2023 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

		Green - action has been completed or is moving forward as planned You					Yellow - action has encount	tered minor ob	stacles Red - action	n has not been taken o	has encountered a serious barrier		
Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline		Resources Avai			ces <u>Needed</u>	Annual Progress to Date	Change	
#	,	a constant of an grave,	Party(ies) and	Location		Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item	
3.8	Stream	14,000 5,000 Linear feet (~3 mile)	CBF, Chesapeake	Rapid delisting	2022 – 2025	Design/permit/construction			Lack of funding to	Assume \$900/LF -	2023: Stream stabilization/habitat on Shultz Creek. 80' of mudsill and riprap to stabilize and	Goals were	
	Restoration	Urban Stream Restoration	Conservancy, TU	areas top priority	2022 2023	cycle seems to work in two-			cover engineering	\$13M	create trout habitat and 20' wing to aid in stabilization. Working with Trout Unlimited for the	decreased to	
	(Urban and	or burn our cum restoration	National, PFBC	& Countywide		year increments, there is an			design.	713141	stabilization project.	reflect of lack of	
	Agriculture)	6,000 Linear feet Agriculture	Stream Restoration	based on		assumption that			aco.g	Assume \$400/LF -	Statistical projecti	progress to date.	
	/ Igriculture/	Stream Restoration	Team, PCCD, PCPC	landowner		eroded/degraded streams				\$2.4M	2022: No progress to date.	progress to dute.	
				interest		exist based upon 403(d) listing				¥2	2022 110 p. 06. 000 to date.		
						- should that not be the case							
						in the field, adjust quantitative				\$280,000 per year			
						goal down and ensure buffers				,,,			
						are in place.							
						·				\$420,000 per year			
						Lack of funding to cover							
						engineering design.							
										\$280,000 per year			
3.9	Implement	60 70 acres of barnyard runoff	PCCD, Chesapeake	Countywide	2022-2025	Landowner buy-in and project			6 – additional Ag	\$780,000 per year	2023: One project is slated for installation in Fall of 2023 that will incorporate a 4,905 SF HUA.	Goal was	
	more barnyard	controls	Conservancy, NRCS,	Farms		development/funding.			Planners to provide			increased to	
	runoff		Perry County Farm						technical assistance		2022: Phase 1 of BMP verification will identify where barnyard clusters are located and	reflect number of	
	control/loafing	1 acre of loafing lot management	Bureau			Lack of Technical assistance to			and ag planning		determine if they are livestock operations or poultry operations. Those operation can be cross	acres already	
	lot					support agriculture planning					referenced with PracticeKeeper and other BMP verification data sets to consider outreach to	being treated,	
	management	500 acres of agricultural drainage				and implementation.			3 – FTE Design,		farms without both.	and an increase in	
		management							Engineer, Permit	\$420,000 per year		available funding	
						Lack of funding to cover						for related	
						engineering design.			3 – FTE Inspector			projects.	
									construction	\$315,000 per year			
						Increasing construction costs			Services				
						are cancelling NRCS contracts.							
										Barnyard Runoff			
										Control \$175K per			
										project, assume 1			
										acre per project			
										\$6.8M in total			
										ÇO.OW III total			
										Agriculture			
										Stormwater			
										Management \$10K			
										per acre 🛭 \$5M			
3.1	Animal waste	31,000 total AUs	PCCD, SCC, CEG	Livestock &	2022-2025	Time to get through planning,	Project implementation	Average	6 – additional Ag	\$780,000 per year	2023: One project is slated for installation in Fall of 2023 that will incorporate a 10' x 68' liquid		
	management		Program, County	Poultry farms		design, and construction;		NRCS Cost	Planners to provide		manure storage.		
	BMP	1,500 AUs of animal mortality	Farm Bureau			outreach to smaller farms that		share is	technical assistance				
	•	composting management				likely need the assistance;		about	and ag planning		2022: BMP Verification Phase 1, shows the potential to report an additional 52 animal waste		
	n for livestock					match cash value for small		\$75,000 per			storage facilities currently not reported through PracticeKeeper. Those 52 facilities will need to		
		2,800 new AUs of livestock				farms; readiness to		acre	3 – FTE Design,		be field verified.		
						plan/implement projects			Engineer, Permit	\$420,000 per year			
		1,600 new AUs of poultry				when outreach efforts yield							
						willing landowners.			3 – FTE Inspector	¢345.000			
						Last of founding to the second			construction	\$315,000 per year			
						Lack of funding to cover			Services				
						engineering design.							
										Animal waste			
										management system			
										\$175,000 per project			
										assume 100 AUs per			
										project \$7.7M in tota			
										F. 0,000 97.7 W III tota			
											I		

					2023 P							
						moving forward as planned					r has encountered a serious barrier	1
Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline	•	Resources Avai			ces <u>Needed</u>	Annual Progress to Date (2021 to 2023)	Change
#			Party(ies) and	Location		Challenges or	Technical	Financial	Technical	Financial	· · ·	to Action Ite
3.11*	Manure	Transport <del>750</del> 4,000 dry tons per	PCCD, NRCS, Perry	Countywide	2022-2025	Current reporting standards			1 – FTE Clean Water	\$130,000 per year	2023: PCCD is utilizing new tracking methods to track nutrient balance sheets.	
	Transport out of Perry County	year out of Perry County	County Farm Bureau, Manure Brokers			do not require manure broker and haulers to report manure			Coordinator for		2022: Manure transport documentation still remains an issue. Look to state agencies for support	
	of Perry County		ividifule blokers			transported. New regulations			Conservation District		working with manure haulers and brokers to collect data.	
						must be developed to require			District		working with manure madiers and brokers to confect data.	
						haulers and brokers to submit					From 2020 to 2021 manure transport increased by 4,400 dry tons of manure (according to CAST).	١.
						information to DEP.					, , , , , , , , , , , , , , , , , , ,	
.12*	MS4-related	Plan implementation by end of	Marysville Borough	Marysville	2022-2023	Municipal capacity to	Municipal engineer	Unknown	2 – Municipal	\$280,000 per year	2023: No progress to date.	Goals were
	Chesapeake	current permit term		Borough		implement plans (technical,	design/permit,		Engineers			decreased to
	Bay Pollutant		PCPC, Tri County			financial).	construction readiness				2022: Borough is on track to implement their PRP which will result in the reporting of the	reflect of lack
		Vegetated Open Channels – <del>29</del> 0	Regional Planning						1 – municipal	\$130,000 per year	performance target BMPs.	progress to da
	Implementatio	acres treated	Commission			Flexibility to work outside of			planner			
	n	Lefthania Baria 50 anns taoint				designated urbanized area.				¢700 000		
		Infiltration Basin – 5 0 acres treated								\$700,000		
		Infiltration Practices with sand,										
		vegetation, no underdrain - 5 acres										
		treated										
		Dry Extended Detention Basin – 43-										
		0 acres										
		Storm Drain Cleanout – 13,900 lbs.										
		of solid removed										
		Manuscilla Daravah has signed lasses										
		Marysville Borough has signed lease with Lions Club to implement										
		Projects near the pond. (70% of										
		requirement)										
		,										
3.13*	Urban	Implement existing ordinances at	PCPC, PCCD,	Countywide	Ongoing	Coordination/ training for	Reporting platform		5 Summer interns	\$50,000 – per year	2023: Held virtual meeting with PADEP Act 167 staff to discuss how Perry County Could move	Goals were
	Stormwater	local municipal level	developing			municipal staff, FieldDoc batch			for reporting and		forward and be recognized having an Act 167 Plan. In the absence of sufficient state funding for	increased to
	Management		municipalities, Tri		2022-2025	upload opportunity, non-MS4			verification		this approach, staff may need to shift its direction to more of a hybrid model of a countywide	reflect number
	- C	5	, ,			engagement (what's in it for					stormwater management plan. The Perry County Board of Commissioners will have to determine	acres already
	Communities	this category and newly built ones	Planning Commission,	,		them?), difficulty obtaining					the direction from a list of options.	being treated, o
			contracted engineer,			past information (MS4s						decreased to
		Runoff Reduction Performance Standard – 82 200 acres treated	water authority			typically have databases from 2003-present; non-MS4s			2 – Municipal	¢380 000 por voor	2022: Look to host municipal meeting in 2023 to discuss potential opportunities to implement local ordinances for stormwater management.	reflect of lack of progress of action
		Standard – 82 200 acres treated				typically have no database)			Engineers	\$280,000 per year	local ordinances for stormwater management.	item.
		Wet Ponds and Wetlands – <del>100</del> 0				typically flave flo database)					Future BMP verification funding will be allocated towards urban stormwater BMP cataloguing.	iteiii.
		acres treated; 5 acres conserved							1 – municipal		Tuture bini vermeation familiarily will be anocated towards arban stormwater bini cataloganig.	
									planner	\$130,000 per year		
		Impervious surface reduction – 10							ľ			
		acre										
		Advanced grey infrastructure IDDE								Stormwater BMP		
		– 130 acres treated								budget \$750,000		
		Work with municipalities to								Wetland conservatio	n	
		document street sweeping activities  – Goal TBD								2 \$10,000		
	The second secon											

document street sweeping activities

– Goal TBD

					2023 P	hase 3 Watershed Imple	mentation Plan (WIP)	Planning a	nd Progress Repo	ort – PERRY COUN	тү	
				Green - action has b	een completed or is	moving forward as planned	Yellow - action has encount	ered minor ob	stacles Red - action	has not been taken o	r has encountered a serious barrier	
Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline		Resources Avai			es <u>Needed</u>	Annual Progress to Date	Change
#		J	Party(ies) and	Location		Challenges or	Technical	Financial	Technical	Financial	(2021 to 2023)	to Action Item
3.14	Conservation	Promote new program and enable	TCRPC, PCCD,	Developed areas	2022 - 2025	Landowner education and	Planting plan assistance	11110110101	1 – FTE Municipal	\$130,000 per year	2023: No progress to date.	Goals were
3.14		one large tract landowners'	Municipalities,	in County	2022 2025	acceptance	rianting plan assistance		Planner	7130,000 per year	2023. No progress to dute.	decreased to
		participation	Chesapeake	municipalities		deceptance			Tarrier		2022: No progress to date.	reflect of lack of
	Conversion	participation	Conservancy, CBF,	mamerpanties		Existing mowing ordinances			3 – additional FTE		2022. No progress to dute.	progress to date.
		80 10 acres of Conservation	DCNR, Western			and weed ordinances can be a			environmental	\$130,000 per year		progress to date.
		Landscaping	Pennsylvania			challenge to implementation			technician	7130,000 per year		
		Lanascaping	Conservancy			chancinge to implementation			teennean	\$2,500 per acre		
			Conservancy							meadow> \$200,000		
										budget		
2 15*	Continue dirt	<del>19 miles</del> 50,000 LF (9.5 miles)	PCCD	Countywide	2025	Continue D&G Road program	Education, technical	\$2.4 Million	1 – FTE Clean Water		2023: Juniata Twp: Homestead Rd. Stream Crossing project- 8' arch pipe was installed. Replaced a	
3.13		overall restored through past	FCCD	Countywide	2023	funding	assistance, project	since 1998	Coordinator for	\$130,000 per year	2' round metal pipe for a stream with bank full width 7.4'.	2
		projects and future projects				runung		Since 1998	Conservation	Dirt and Gravel Roads		
	program	projects and ruture projects				Expand Dirt and Gravel Road	oversight		District	\$40 per foo> TBD	Jackson Twp: Mount Pleasant Rd. DSA placement on 2890 feet of road. Removed and replaced 3	
		Continue to implement the program				Program to include farm and			District	340 per 100> 180	cross pipes and added 2 more (15" pipe) to help with drainage.	
		annually				residential lanes					cross pipes and added 2 more (15 pipe) to help with dramage.	
		amuany				residential lanes					2022: Current projects are on track. The low volume road portion of the program has new	
											requirements for stream crossing requiring stronger engineering vetting which may prove to be	
											too expensive for townships moving forward. Our QAB Recommended and our Board approved	
											pausing stream crossing projects through December 2024.	
											padsing stream crossing projects through becember 2024.	
											Moose Road project (DGR) was completed and a new contract for Mt Pleasant Road was Board	
											approved. This project will be completed in 2023.	
3 16*	Work with	Educate local municipal leaders and	Local Municipalities	Countywide	2023	PennDOT's and Municipal			1 – FTE Clean Water	\$130,000 per year	2023: No progress to date.	Consistent lack of
5.120	PennDOT and	work with PennDOT to address state		county wide	2023	willingness to cut back on-			Coordinator for	7130,000 per year	2020. No progress to date.	progress and lack
	local	owned roads on the importance of	DET UNG TEMPOT			mowing programs. DEP			Planning		2022: No progress to date.	of
	municipalities	keeping higher vegetation along				Chesapeake Bay Program will			Commission		2022. No progress to date.	coordination/buy
	to reduce	roadways to prevent erosion and				need to assist in the education	<u>+</u>					in from PennDOT
	frequency of	increase nutrient uptake.				of PennDOT.	'		1 – FTE Clean Water			through State
	mowing/	merease natirent aptake.				or remiser.			Coordinator for	\$130,000 per year		partners.
	spraying road	Potential to use sustainable mowing							Conservation	7130,000 per year		partifers.
	ditches and	for hay for ag use							District			
	along roadways	nor hay for ag asc							District			
	along roddways											
3.17	Private Funding	Identify some private funding	Existing project	Countywide	2022-2023	Need to expand network,	Financial services		1 – FTE Conservation	\$130,000 per year	2023: FFAR and Walton Family Foundation opportunities did not proceed. No progress to report	<del>                                     </del>
] 3.17	& Grant	sources that may be able to	implementer	Country Wide		educational aspect of less	arrelar ser vices		District Grant	. + 250,000 per year	from County-led activities.	
		supplement public funding	networks			common funders, logistics of			Manager		Sound tourness.	
		sources/existing sources utilized for				utilizing unproven funding					2022: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food &	
		stakeholders, continue to work with				sources (or lesser known).4			1 – FTE Planning		Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving	
		partners to facilitate additional							_	\$130,000 per year	Conservation through Targeting Information, Outreach and Networking (ACTION) to support	
		funding				Grant administration is a			Manager		innovative research that increases adoption of conservation practices. A potential grant	
						challenge due to limited staff					application would bolster farm visits in Perry County to increase the adoption of Conservation	
						and time-consuming nature of	:		2 – staff accountants		Practices.	
						grant reporting and			_ stan accountant.			
						administration.				\$140,000 per year		
					1	danimistration.			1	71 10,000 pci yeai	I .	

Г					2023 P	hase 3 Watershed Imple	mentation Plan (WIP) Plan	nning an	d Progress Repo	ort – PERRY COUN	ITY				
			0	Green - action has b	een completed or is	moving forward as planned	ellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier								
Actio	n Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location	Expected Timeline		Resources <u>Available</u>	-		ces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	Change to Action Item			
Prio	ity Initiative 4	: Research, Education, and Tr	aining												
	Develop new water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative database	Successful data input/acceptance by ALLARM and other environmental groups program by end of 2021.  Map existing monitoring locations.  Implement 25 new water quality monitoring stations.  Develop new or reestablish existing watershed associations to support	ALLARM, Keystone Water Resources Center, Juniata College, Juniata County Watershed Association, Harrisburg University  Conservation District, Tri-County Regional		Ongoing	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it.  Currently no groups doing water quality monitoring. Limited USGS monitoring (streamflow only).  Willing volunteers and leaders to establish and run			Coordinator for	\$125,000 – 25 new monitors \$130,000 per year \$280,000 per year \$130,000 per year	2023: Dickinson College's Alliance for Aquatic Resource Monitoring (ALLARM) is a community science center that works with communities in the Mid-Atlantic region to use science as a tool to investigate stream health while generating data that can be used for aquatic protection and restoration efforts.  ALLARM's Stream Team program aims to develop baseline water quality data examining the relationship between land use, geology, and water quality. PA communities have collected biological, chemical, and physical data, and continue to do so in these targeted contests: Cumberland and Dauphin. There are currently 19 active Stream Team Sites in Cumberland County, and 3 active sites in Dauphin County. Monitoring data for these active sites, as well as sites not currently monitored in Cumberland, Dauphin, and Perry Counties are located in the CMC Data Explorer, which is a regional database for Community-collected data throughout the Chesapeake Bay Watershed. More information and the Data Explorer can be found here: https://cmc.vims.edu/#/home In partnership with Letort Regional Authority, ALLARM also monitors 7 sites along Letort Spring Run in Cumberland County for baseline chemical parameters and visual observations.  Capacity changes with the Program 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: In the fall of 2022, HRG will convene the Watershed Specialist to identify the largest "gaps" of water quality monitoring data, develop strategies to comprehensively incorporate new data to support CAP efforts.  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.				
	associations for short-term success and long-term sustainability aligning with their goals	with CAP implementation. Watershed organizations can support with outreach, engagement new project identification and implementation.	Planning Commission	Shermans Creek Buffalo Creek		watershed organizations to be successful and support with implementation.	Project development support	:	Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$5000 per organization to produce promotiona materials (hats, shirt: stickers) for member > \$5,000 per year	5,				