		<u>Green</u> - act	tion has been com	pleted or is mo	oving forward a	is planned <u>Yellow</u> - ac	tion has encount	ered minor obsta	cles <u>Red</u> -	action has not	t been taken or has er	countered a seriou	ıs barrier	
						Potential		Resources Av	<u>railable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Priori	ty Initiative	1: County Progra	ammatic Init	iatives: Bla	air, Cambr	ia, Fulton, and H	untingdon							
1.1A	Implement	Ensure that growth	Planning	Blair	ongoing	Educating	Education,	Planning			4 – FTE Clean	Planning	\$520,000 per	PA DCED
	County	activities address	Commissions,	Countywide		municipalities,	outreach	Commissions			Water Coordinator	Commission	year	Municipal
	Comprehensiv	existing water	growth			Updating local plans					for Planning			Assistance
	e Plan policies	quality impairments	boundary	Cambria		and ordinances,					Commission			Program
	and actions	through stormwater	municipalities,	County –		Growth areas not								
		BMP	Southern	Chesapeake		consistent with							\$2,000 per	Funding
		implementation	Alleghenies	Bay Portion		Census Urbanized							acre of forest	Options:
		already required by	Bicycle and	only		Areas							conserved	
		local ordinance	Pedestrian										through	PA DCNR
			Plan, ACT 167	Fulton		Local governments							easement >	Community
		Protect natural	Plans,	Countywide		willing to propose							Total \$23.8M	Conservation
		resources, protect	Huntingdon	I lumbin adam		ordinances to protect							¢2 000 mar	Partnerships
		wetlands through use of zoning	County Heritage Plan,	Huntingdon Countywide		economically and environmentally							\$2,000 per acre of	Program
		ordinances	Fulton County	Countywide		friendly landscapes							wetland	CFA Greenways,
		Ordinances	Heritage Plan,			interiary lariuscapes							conserved	Trails, and
		Promote the	Convention										through	Recreation
		inclusion of	and Visitors										easement >	Program
		recreational	Bureau,										Total \$470K	
		opportunities	Chamber of											
		counties have to	Commerce,											
		offer, look to build	Cambria											
		local economies of	County											
		tourism	Conservation											
			and Recreation											
		-Conserve 3,000 acres	Authority,											
		of forest (B) -Conserve 1,600 acres	Southern											
		of forest (C)	Alleghenies											
		-Conserve 1,500 acres	Greenways and											
		of forest (F)	Open Space Network Plan											
		-Conserve 5,800 acres	Network Plair											
		of forest (H)												
		-Conserve 60 acres of												
		wetlands (B)												
		-Conserve 25 acres of												
		wetlands (C)												
		-Conserve 40 acres of wetlands (F)												
		-Conserve 110 acres of												
		wetlands (H)												

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where feasible

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- 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 **Resources Needed Potential Resources Available Implementation** Performance **Challenges or** Action Geographic Expected Suggested Suggested Description Target(s) Location **Timeline** Recommendations **Technical Financial Technical** Source **Financial** Source **Partners** Source Source Utilize **PFBC** 4 – FTE Clean DEP 1.1C* Evaluate areas **Utilize Chesapeake** Municipalities, Blair ongoing Adopting ordinances, Can apply for **US Forest** Planning \$520,000 per Countywide Conservation PFBC Water Coordinator Commission to establish Conservancy data may require a pilot Landscape Service year riparian set to identify buffer District, CBF, project in a willing Scale Incentive for Planning buffers to gap project Pheasants Cambria municipality to Restoration Program Commission stabilize opportunities County demonstrate success. (LSR) Grant Forever, to pay 4 – FTE Clean stream banks **National Trout** Chesapeake **Program** landown and limit **Utilize Public Fishing** Unlimited, **Bay Portion** Lack of technical ers for Water Coordinator \$520,000 per DEP Conservation encroachment Easement Prince Gallitzin only assistance to support fishing for Conservation District year agreements to State Park, implementation goals District access conserve buffers WPC, PA Fulton for forest buffers. Foundation of Countywide TBD Conserve Riparian Watersheds, **Buffer funding Buffer Funding Expand Buffer** Funding buffers where Watershed Huntingdon programs must **Incentive Program Bonus Program** Options: feasible through Organizations, Countywide include 5-10-year to provide zoning ordinances **Fulton County** minimum \$10,000 per **CFA Watershed** ACT 167 Plan, maintenance plan, acre of buffer Restoration and installed to **Fulton County** incentive money for Protection landowners, along Heritage Plan, include 5-year Program DCNR with volunteers to maintenance establish the buffer. $contract \rightarrow$ PA Fish and Boat Commission \$2.05 M total CBF, Alliance for the Bay DCNR, Growing Greener, NFWF

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management (F)

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County Act 167 Plan

Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation** Action **Performance** Geographic Expected **Challenges or** Suggested Suggested Source Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** 2022 -Act 167 Plan \$350,000 per DEP 1.3* Update/draft Look to modify Municipal Blair Should local Institutional Municipal Consultant existing stormwater Act 167 Plans Countywide discuss involvement exist, knowledge engineers -Development county → \$1.4 engineers, ordinances and ACT Municipalities, interest to funding for Plan assume 6 for Million total 167 Plans where Southern Cambria pursue and update well-rounded feasible or create Allegheny Chesapeake funding local 4 – FTE Clean \$520,000 per DEP Planning new model Comprehensive Additional background Water Coordinator **Bay Portion** opportunitie Commission year stormwater Plan, Juniata stormwater for Planning ordinance or ACT River Fulton engineering Commission 167 plans that Watershed Act Countywide resources at county would 167, Bobs level (C) require/incentivize Creek and Huntingdon additional Dunning Creek, Countywide protections for Beaverdam Branch 167 streams Encourage municipal officials to enact stormwater management ordinances consistent with ACT 167 and ACT 102 (F) (H) (C) Implement Fulton

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campaign

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Conservancy, etc.

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Resources Available Resources Needed Potential Implementation** Action Performance Geographic Expected **Challenges or** Suggested Suggested Source Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** 2021 -3 – FTE Clean \$390,000 per DEP 1.5 Juniata River WPC applied for Western Juniata **Performance Target** Huntingd Growing Planning Watershed DCNR C2P2 grant to continued: Our goal is Water Coordinator Commission Pennsylvania River Conservancy on Greener year Management update the Juniata Conservancy, Watershed **Exploring** basically to update County for Planning **AG BMPs** Plan River Watershed Chesapeake (Blair, options the existing plan with Commission Management Plan. Fulton, work that has been \$442,305 Conservancy DEP Look to CAP can help 2022 done since the 3 – FTE Clean Huntingdon Conservation \$390,000 per identify a leverage funding for , Juniata, outreach original plan, do Water Coordinator District year rapid delisting the Juniata River Mifflin, some more in-depth for Conservation watershed as Watershed Perry) 2023 GIS analysis, and get District part of the Management Plan. implementa public and municipal plan. tion WPC applied **DCNR** input into what they Work with the see are the issues in for \$37,785 Chesapeake the watershed. I think with \$37,286 Conservancy to the GIS analysis will match rapidly delist a be a big part of the watershed within process. We're Rapid Delisting Growing **Approach** Greener/DCNR/ the Juniata River planning on using the Watershed Plan. **Budget** NFWF new 1-meter resolution data set, \$2,000,000 incorporating some of the buffer gap analysis work from Chesapeake

	_	<u>Green</u> - ac	tion has been com	pleted or is mo	ving forward a		tion has encounte	ered minor obsta	acles <u>Red</u> - a	ction has not	been taken or has er	countered a seriou	ıs barrier	
						Potential		Resources A	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.6*	Implement	Total preservation	Agricultural	Blair County	2022-2023 –	Funding to support	Priority	Ag Land			4 – FTE Clean	Conservation	\$520,000 per	DEP
	County	Blair County 56	Land	Ag Land	explore	additional BMP	recommendati	Preservation			Water Coordinator	District	year	
	Farmland	farms and 8,400	Preservation,		incentive	implementation	ons, easement	Board			for Conservation			
	Preservation	acres –Goal 4 farms	NRCS,	Cambria	opportunitie		revision				District			
	Program with	per year 16 total.	Conservation	County Ag	S	Technical assistance	recommendati							
	farmland	12-15 are on a	District, County	Land		to coordinate	ons,				4 – administrative	Conservation	\$300,000 per	DEP
	preservation	backlog list	Farm Bureau,		Ongoing	preservation plans	supplemental				assistant	District	year	
	program	-Conserve 1,500	PSU Extension,	Fulton		with funding and	BMP funding						4	
	incentives	acres of farmland	Huntingdon	County Ag		technical assistance	research				21 – Ag planners	Conservation	\$2,730,000 per	PDA/SCC/
	enhancement	Tatal massametica	County	Land		Dunnam and farmers and					to assist with	District	year	NRCS/DEP
	Dunganustian	Total preservation Cambria County 19	Heritage Plan,	I I continued an		Preserved farms are					technical			
	Preservation of agriculture	farms and 3,296	Fulton County Heritage Plan,	Huntingdon		required to have an NRCS Conservation					assistance			
	lands,	acres. Goal is to add	SCC	County Ag Land		Plan, work with					1 – FTE for Ag	Conservation	\$130,000 per	DEP
	boosting local	1-2 farmers each	Ombudsman,	Lariu		farmers to ensure					Land Preservation	District	year	DLI
	agriculture	year, (8) total–	Southern			Conservation Plan is					Program	District	year	
	economy,	about 150 acres per	Alleghenies			reported in					Assistance		Assume	NFWF, GG.
	Purchase of	farm.	RC&D Council			PracticeKeeper.							\$250,000 per	Increased
	Agricultural	-Conserve 690 acres				Recommend making							farm →	Conservation
	Easements	of farmland				this a program							\$4,000,000 (B)	District budget
	(PACE)					requirement								_
		Total preservation				statewide.							Assume	
		Fulton County 2											\$250,000 per	
		farms and 240 acres.				Sharing NRCS data is							farm >	
		Goal is to add 1-2				challenging, must							\$2,000,000 (C)	
		farms each year, (8)				comply with 1619								
		total farms (20				form.							Assume	
		farms in waiting) -Conserve 1,500				Lack of funding to							\$250,000 per farm →	
		acres of farmland				preserve farms each							\$2,000,000 (F)	
		acres or farilland				year. Many farmers							\$2,000,000 (1)	
		Total preservation				stop applying							Assume	
		Huntingdon County				because of limited							\$250,000 per	
		11 farms and 1,392				funding and							farm →	
		acres – Currently 1				competitive process.							\$2,000,000 (H)	
		farm every 2-3				Additional staff time								
		years, 2 Farms total,				would be needed to								
		could do 2 farms per				significantly increase								
		year with additional				the number of farms								
		funding (8) total				per year and								
		-Conserve 2,000				continue to inspect								
		acres of farmland				the farms annually.								

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Green, action has been completed as is moving forward as planned. Vallow, action has answered miner obstacles. Bod. action

		<u>Green</u> - ac	tion has been com	pleted or is mo	oving forward a		tion has encount	ered minor obsta	icles <u>Red</u> - a	action has no	t been taken or has er	ncountered a seriou	s barrier	
						Potential		Resources Av	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.7*	Establish	Approximately 75	Agricultural	Blair County	2022-2025	Limited compliance	38 Inspections	Blair County			21– additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	funding/staff	farms have their	Land	Ag Land		activities by DEP.	performed per	Chesapeake			Planners to	ivate Sector	year	SCC/PDA
	support to	plans in Blair	Preservation,				year (B)	Bay Tech			provide technical	Farm Visits		
	assist the	County, goal is to	NRCS,	Cambria		Lack of Technical					assistance and ag			
	Agricultural	complete 200 by	Conservation	County Ag		assistance to support	75 Inspections				planning			
	community	2025. (B)	District, County	Land		the farming	performed per	1.5 FTE Fulton						
			Farm Bureau,			community.	year, NRCS 20	County			11 – FTE Design,	Private Sector/	\$1,540,000 per	DEP/NRCS/
	496 farms in	Approximately 5	PSU Extension,	Fulton			plans per year	Chesapeake			Engineers, permits	Conservation	year	SCC/PDA
	Blair County	farms have their	Private Ag	County Ag		Private sector Ag	(F)	Bay Tech (cut				District		
	(2017 Census)	plans reported in	Consultants	Land		plans are not		in half for						
		Cambria County,				required to be shared	12 Inspections	phase 2)			11 – FTE inspector	Private Sector/	\$1,155,000 per	DEP/NRCS/
	557 farms in	goal is to		Huntingdon		with District staff.	performed per				construction	Conservation	year	SCC/PDA
	Cambria	complete/report		County Ag			year (H) -	Huntingdon			Services	District		
	County (2017	100 by 2025. (C)		Land		All counties will work	Could do 50	County						
	Census)					with ACT 38,	inspections	Chesapeake			4 – FTE Clean	Conservation	\$520,000 per	DEP
		Approximately 100				Preserved farms and	per year with	Bay Tech			Water Coordinator	District	year	
	545 farms in	farms have their				organic farms to	additional				for Conservation			
	Fulton County	plans in Fulton				report AG E&S and	funding				District			
	(2017 Census)	County, goal is to				NRCS Conservation								
		complete 200 by				Plans. These	Field				0.5 FTE –	Huntingdon	\$65,000 per	DEP
	714 farms in	2025. Preparing to				operations are	verification,				Chesapeake Bay	Conservation	year	
	Huntingdon	enter phase 2 of				required to have	troubleshooti				Technician to	District		
	County (2017	inspections. (F)				them, but no	ng, site visits				expand this			
	Census)					requirement to	and plan				position to a full-			
		Approximately 100				report the plans. It is	review	District, USDA			time position			
		farms have their				recommended state		NRCS, Private						
		plans in Huntingdon				agencies make		Consultants,			4 – administrative	Conservation	\$300,000 per	DEP
		County, goal is to				changes to ACT 38		PSU Extension			assistant	District	year	
		complete 200 by				and Persevered Farm								
		2025. (H)				programs to require								
						PracticeKeeper								
						reporting.								

		<u>Green</u> - ac	tion has been com	npleted or is mo	ving forward a	is planned <u>Yellow</u> - ac	tion has encount	ered minor obsta	icles <u>Red</u> - a	ection has no	t been taken or has er	ncountered a serio	us barrier	
						Potential		Resources Av	<u>vailable</u>			Resource	s <u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.8A*	Continue to	Continue to provide	PA DEP Bureau	Shaw Run –		Need to support	Coordination	PL 566			3 – FTE Clean	Conservation	\$390,000 per	DEP
	address and	funding to both	of Mining,	Blair County		legislation regarding	of restoration	Program with			Water Coordinator	District	year	
	support	active and passive	Conservation			the RECLAIM Act to		NRCS & Altona			for Conservation			
	existing Acid	treatment systems	District,	Glen White		support funding of		Water			District			
	Mine Drainage	that are reducing	watershed	Run – Blair		new treatment		Authority						
	(AMD)	the impacts of AMD	groups, TU,	County		systems.					Maintenance on	Conservation	\$75,000 per	DEP Bureau of
	treatment	impairments. If	Altoona Water				Monitoring				AMD site locations	District	year	Mining,
	systems and	funding recedes	Authority,	Chest Creek		Lack of technical		Conservation			(B)			Abandoned
	streams	water quality could	NRCS, Stream	– Cambria		assistance to support		District						Mine
	impaired by	degrade. (B) (C) (H)	Restoration	County		restoration efforts					Monitoring on	Conservation	\$25,000 per	Reclamation
	AMD		INC. Office of								treated AMD	District	year	Program,
			Surface Mining,	Miller Run –							Streams (B)			CFA
				Huntingdon										
				, in stream							Maintenance on	Conservation	\$75,000 per	
				dosing							AMD site locations	District	year	
											(C)			
				Shoups Run										
				_							Monitoring on	Conservation	\$25,000 per	
				Huntingdon							treated AMD	District	year	
				(delisted							Streams (C)			
				area) still										
				needs							Maintenance on	Conservation	\$75,000 per	
				maintenanc							AMD site locations	District	year	
				е							(H)			
				Hartman							Monitoring on	Conservation	\$25,000 per	
				Run –							treated AMD	District	year	
				Huntingdon							Streams (H)			

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation** Action **Performance** Expected **Challenges or** Geographic Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source Work with Penn 2022 3 – FTE Clean DEP 1.9B Quantify Penn State Penn State Getting maximum Institutional University Planning \$390,000 per Land/BMPs State Altoona, Altoona (B), Altoona credits for knowledge staff, 1 County Water Coordinator Commission year Managed by Mount Aloysius, Mount experimental BMPs staff person, for Planning owned HRG (CAP Penn State Juniata College and Aloysius, Lands in Commission Saint Francis Juniata College **Blair County** coordinator) Altoona, 3 – FTE Clean DEP Juniata University to ensure (H) and Saint Conservation \$390,000 per College and that water quality Francis Mount Water Coordinator District year Saint Francis improvements that University (C) **Aloysius** for Conservation University they manage are District owned captured in lands in TBD CAST/FieldDoc 18 – Student Penn State \$180,000 per **Blair County** Internships to Altoona (B), year Juniata Support CAP **Mount Aloysius** College (B), Juniata Implementation (5 owned - Blair, 3 -College (H) and Lands in Cambria, 5 -**Saint Francis** Fulton, 5 – Huntingdon University (C), or County **Huntingdon** students who live locally and Saint attend other Francis universities University owned Lands in Cambria County

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Space Plans

Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation Action Performance** Geographic Expected **Challenges or** Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source SAPDC 1.10A Create a Develop regional Multi-partner, Blair 2022 - plan Simplifying the Website \$60,000 per Administrative regional water Countywide developmen development and messages and Southern resources that are year budget tagquality audience; execute Allegheny available, focusing on continued along to projectfarmers and other communicatio plan and distribute Planning Cambria maintenance related grant messaging through Commission as Chesapeake 2023 - plan landowners award n plan, staff and partners implementa leveraging lead entity **Bay Portion** existing building upon tion documents environmental Fulton 4 – FTE Marketing Planning \$520,000 per NFWF and covering aspects? Countywide and Outreach Commission year topics Coordinator including Huntingdon Planning DEP Southern Countywide 4 – FTE Clean \$520,000 per Allegheny Water Coordinator Commission year Comprehensiv for Planning e Plan, Hazard Commission Mitigation Plans, Cold Water Conservation Plans, 319 Watershed Plans, Greenways and Open

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Green, action has been completed as is moving forward as planned. Vollage, action has encountered miner electroles. Bod action

		<u>Green</u> - ac	tion has been com	pleted or is mo	oving forward a	is planned <u>Yellow</u> - act	ion has encounte	ered minor obsta	icles <u>Red</u> -	action has no	t been taken or has er	countered a seriou	s barrier	
						Potential		Resources <u>Av</u>	<u>railable</u>			Resources	Needed	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.10B	Agricultural	Develop a plan to	CD, County	Blair	2022-2025	One on one farm					21 – additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	Communicatio	complete one on	Farm Bureau,	Countywide		outreach is the best					Planners to	ivate Sector	year	SCC/PDA
	n Strategy	one farm visits	Integrators, Ag			way to communicate					provide technical	Farm Visits		
		outside the	Land	Cambria		with farmers in					assistance and ag			
		regulatory	Preservation,	Chesapeake		addition to reporting					planning			
		framework.	PSU Extension, NRCS,	Bay Portion		practices.					4 – FTE Marketing	Conservation	\$520,000 per	NFWF
		Develop a	Ombudsman	Fulton		Funding to support					and Outreach	District	year	
		communication plan		Countywide		the technical					Coordinator			
		to engage				assistance required								
		integrators.		Huntingdon		to complete one on					4 – FTE Clean			
				Countywide		one farm outreach					Water Coordinator	Conservation	\$520,000 per	DEP
		Partner with									for Conservation	District	year	
		pesticide meetings				Outreach to					District			
		and other AG				integrators is a							See 1.10A for	
		meetings to provide				challenge due to the							website costs.	
		information.				number of								
		LUCE - F B				integrators and							Costs for	
		Utilize Farm Bureau				multiple country							meeting	
		Newsletter for				boundaries they serve. It is							attendance and	
		announcements				recommended							administration	
						DEP/PDA/SCC							is covered	
						communicate with							through other	
						integrators on a							funding	
						frequent basis to							requests.	
						reduce mixed							·	
						messages.								
						Districts can be								
						viewed as regulatory								
						agencies can be								
						tough for some								
						farmers to be willing								
						to work with the								
						District								

		<u>Green</u> - ac	tion has been con	npleted or is mo	oving forward a	as planned Yellow - act	tion has encount	ered minor obsta	acles <u>Red</u> -	action has no	t been taken or has er	ncountered a serio	us barrier	
						Potential		Resources A	<u>vailable</u>			Resources	Needed	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.11*	Countywide WQ Credit Offset Pilot	Demonstrate success of a pilot project area where MS4-regulated areas and non-regulated areas can benefit from achieving sediment and nutrient goals	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission	Blair County MS4 Municipaliti es	2022-2023	Municipal capacity to implement plans (technical, financial) DEP acceptance of approach, permit compliance coordination among sectors, farmers in compliance with state and federal regulations			\$644,428 (grant)	Existing NFWS INSR Grant (B)	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	Planning Commission Conservation District	\$130,000 per year \$130,000 per year	DEP
1.12*	Keep High Quality Water High Quality – Protect Headwater Watersheds	Work to preserve and protect high quality and exceptional value streams with preservation and conservation initiatives. The goal is to prevent further degradation to healthy stream segments.	Conservation District, Planning Commission, Watershed organizations, Trout Unlimited.	Blair, Cambria, Fulton and Huntingdon County HQ and EV watersheds.	2022	Funding is not typically available to preserve high quality watersheds. Most funding is dedicated to impaired watersheds. Ensure funding is available to support implementation in HQ and EV watersheds. Ensure dedicated and predictable funding for Tier 3&4 counties is available.				ARC Funding	4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District	Planning Commission Conservation District	\$520,000 per year \$520,000 per year	DEP

		<u>Green</u> - act	tion has been com	npleted or is mo	oving forward a		tion has encount	ered minor obsta	icles <u>Red</u> -	action has no	t been taken or has er	ncountered a seriou	s barrier	
						Potential		Resources Av	<u>/ailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Priori	tv Initiative	2: Reporting and	d Tracking –	Blair. Cam	bria. Fulto	n and Huntingdo	n							
2.1*	Existing BMP	Expand use of	Lead -	Blair	2022 –	EPA acceptance of	Precision	Chesapeake	N/A	N/A	Further GIS and	Chesapeake	\$46,000 (2022	EPA/NRCS
	cataloguing	existing buffer layer	Chesapeake	Countywide	cataloguing	the approach, further	Conservation	Conservancy			data	Conservancy	only) per	·
	(quantity and	with urban	Conservancy	,		refine guidance in	Tools	·			processing/metho	,	county	
	location) for	hydrology layer	·	Cambria	2023 –	QAPP so that					d refinement		→\$184,000	
	select BMPs,		Stakeholder	Chesapeake	Practice	counties can								
	expanding on	R&D into	peer review –	Bay Portion	Keeper	accomplish this or so	General	QAPP			21 – additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	general	distinguishing ag,	PSU Altoona,		batch	that the state can	methodology				Planners to	ivate Sector	year	EPA/PDA/ SCC
	recommendati	pasture, and turf	Juniata College,	Fulton	upload	take the burden off	outline				provide technical	Farm Visits		
	ons provided	covers from grassed	Saint Francis	Countywide	processing	of counties, utilize					assistance and ag			
	in QAPP	buffers	University,		and field	the approach to					planning (Blair 6,			
			USGS, County	Huntingdon	views	catalogue existing	BMP field	Varies by BMP			Cambria 3,			
	BMPs = forest	Manual digitizing	Farm Bureau,	Countywide		BMPs and do on the	backcheck				Huntingdon 6,			
	buffers, urban	where leaf-off <1 ft	PDA, EPA,			ground verification					Fulton 6,)			
	forest buffers,	resolution imagery is	NRCS			where required for								
	grass buffers,	available				reporting purposes,					18 – Student	Local University	\$180,000 per	TBD
	urban grass		County			this is an accelerated					Internships to	Student or local	year	
	buffers, wet	Back check with staff	Conservation			BMP catch up					Support CAP	student		
	ponds and	field views where	Districts			approach while we					Implementation	attending		
	wetlands,	required				continue to provide					(Blair 5, Cambria 3,	nearby		
	fencing, cover					support to farmers					Huntingdon 5,	university etc.		
	crop and	Add data to Practice				on planning and BMP					Fulton 5)			
	tillage	Keeper (PK) or				installs, reduce the								
	management	another batch				amount of								
		upload option				interruption of								
						government entities								
						to compliant farm								
						operations								
						Farmers' willingness								
						to share data with PK								
						due to right to know								

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						Potential		Resources Av	<u>/ailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
2.2*	Identify future	BMP opportunity	Lead -	Blair	2022 –	Different data set	Precision	Chesapeake	N/A	N/A	Further GIS and	Chesapeake	\$46,000 (2022	EPA/NRCS
	ag/urban	analysis – ag	Chesapeake	Countywide	cataloguing	scales/precision	Conservation	Conservancy			data	Conservancy	only) per	
	project	conservation, land	Conservancy		2022	\A.(:11:	Tools				processing/metho		county	
	opportunities	retirement,	Stakeholder	Cambria Chesapeake	2023 – batch	Willingness of landowners to	Batch upload	DEP/SRBC			d refinement		→ \$184,000	
	using automated	alternative crop, forest conservation,	peer review –	Bay Portion	upload	implement BMPs	processing	DEP/3NBC			18 – Student	Local University	\$180,000 per	TBD
	means	stream restoration	PSU Altoona,	Bay referen	processing	implement bivil 3	processing				Internships to	Student or local	year	
			Juniata College,	Fulton	and field		BMP field	Varies by BMP			Support CAP	student	,	
		Back check with staff	Saint Francis	Countywide	views		backcheck				Implementation	attending		
		field views	University,								(Blair 5, Cambria 3,	nearby		
		Datah walaad ta	USGS, County	Huntingdon	2024 – 2025						Huntingdon 5,	university etc.		
		Batch upload to FieldDoc to calculate	Farm Bureau, PDA, EPA,	Countywide	implementa						Fulton 5)			
		credit opportunity	NRCS, MS4		tion focus									
		,	Municipalities											
			in Blair County											
			County											
			Conservation											
			Districts											
2.3*	Develop a	Add urban	Municipal	Blair	2022	Currently	Reporting	FieldDoc			Training	DEP	N/A	DEP
	local system	stormwater BMPs to	engineers,	Countywide		municipalities are not	platform				_			
	to capture	FieldDoc or reported	Chesapeake			collecting BMP data					18 – Student	Local University	\$180,000 per	TBD
	data collection	to DEP so that as	Conservancy,	Cambria		because it is not					Internships to	Student or local	year	
	on urban structural and	land use data sets are updated, there	Municipalities,	Chesapeake Bay Portion		required in non-MS4 communities. Must					Support CAP Implementation	student attending		
		are accompanying	Planning Commission,	Bay Portion		incentivize					(Blair 5, Cambria 3,	nearby		
	practices	BMPs	Commission,	Fulton		communities to					Huntingdon 5,	university etc.		
	'			Countywide		report, no existing					Fulton 5)	,		
		Work with				system in place								
		municipalities that		Huntingdon							4 – municipal	Planning	\$520,000 per	DEP
		are implementing		Countywide		Lack of technical					planner	Commission,	year	
		stormwater management				assistance to report and verify practices						SAPDC, Municipality		
		ordinances for less				to DEP						ividincipality		
		than an acre												
		stormwater												
		management to												
		report practices												

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two years.

2,000 acres (H)

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Resources Needed Potential** Resources Available **Implementation** Performance **Challenges or** Action Geographic Expected Suggested Suggested Description Target(s) Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source # **Partners** 2.5* **Improve** Increase reporting of DEP, Blair 2022-2025 Private sector ag 18 – Student **Local University** \$180,000 per TBD Countywide Agricultural Conservation Student or local agriculture plans planners do not have Internships to year **BMP** reporting into PracticeKeeper, District, NRCS, access to Support CAP student utilizing provide PDA, NRCS, Cambria PracticeKeeper. Ag Implementation attending incentives/requirem **County Farm** Chesapeake planners do not have (Blair - 5, Cambria PracticeKeepe nearby r, Capital ents to private Bureau, Capital **Bay Portion** time to report into - 3, Huntingdon university etc. RC&D sector Ag planners RC&D, PK. **5,** Fulton - 5) Transect to report. Chesapeake Fulton Survey, PSU Countywide Current Capital RC&D Conservancy, Work with Capital routes are not all Survey, PSU Survey, inclusive and could Huntingdon Manure RC&D to improve Manure Transport current transect Brokers, Countywide be improved. Reporting and survey routes to be Remote more inclusive of Current response Sensing cover crop locations, rates are low and improve data miss a large analysis so that all demographic of acres are County farmers. appropriately credited Manure brokers are not required to Work with PSU to report data annually. produce better Data is not inclusive. Consider a regulatory response rates to the PSU survey for change. each county Farmers' willingness Work with to share data with PK PDA/DEP/SCC to due to right to know improve manure transport reporting

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animal units (H)

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(F)

Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Potential** Resources **Available Resources Needed** Implementation Action **Performance** Geographic Expected **Challenges or** Suggested Suggested Source Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Work with Water, DEP CSO and 4 – FTE Clean \$520,000 per DEP 2.7* Water, Sewer Ongoing Need DEP to work Planning Sewer and Waste with waste facilities Water Coordinator Commission and Waste year Wastewater Treatment facilities Brown and Treatment to accurately for Planning Treatment to accurately Union Facilities document plant Commission Plants document plant Township, upgrades. Need DEP Saltillo (H), 4 – FTE Clean \$520,000 per reporting and upgrades. reductions to be Conservation upgrades accurately captured Water Coordinator District year Upcoming plant Altoona in CAST. for Conservation upgrades: Brown Digestor (B), District and Union Tipton/Plane Work with DEP to Township, Saltillo and Nine/Mill determine how (H) Run, composting helps to Petersburg reduce nitrogen and Altoona Digestor (B) Borough phosphorus. Accurately document Tipton/Plane and McConnellsbur the results and report Nine/Mill Run, in CAST. g Borough **Petersburg Borough** (H) McConnellsburg composts biosolids

		<u>Green</u> - act	tion has been com	pleted or is mo	oving forward a		tion has encount	tered minor obst	tacles <u>Red</u> -	action has no	been taken or has en	countered a seriou	s barrier	
						Potential		Resources A	<u> Available</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Priori	ty Initiative	3B: Achieve Nev	v Pollutant F	Reductions	Blair Cour	nty								
3.1B*	Implement Plum Creek and Sugar Run Watershed Assessment, Restoration and Preservation Plan	Implement federal, state and local programs that support the establishment of riparian buffers in the headwaters. Look to support the implementation of streambank fencing, no-till planting, and cover crops. Implement appropriate AMD restoration practices to address AMD issues.	BCCD, JK Chapter of TU, PAFBC, AG land preservation program	Plum Creek and Sugar Run Watershed	Ongoing	Technical assistance to support implementation and landowner outreach. Lack of funding to support implementation of projects.			JK Chapter of TU has funding available for AG Practices and Stream Restorati on – needs project leads	JK Chapter of TU	1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year \$500,000 to support continued implementatio n of restoration initiatives	DEP/NFWF/ DCNR/NRCS/PD A/SCC
3.2B*	Trout Unlimited Non-point source Technical Assistance Program	8 proposals were submitted for streambank and instream practices in Blair County Waterways Currently in the process of being implemented	JK Chapter TU, BCCD	Gillans Run Nature Works Park	2021 – Gillans Run 2022 Implementa tion of additional projects	Permitting process is underway, hoping to have permits by spring of 2022. Work with South Central Office on Permitting Meeting. Current funding minimum of \$25,000 for prevailing wage trigger drastically increases project budget.	Trout Unlimited	Grant	Partial	District	TU Technical Assistance 1 – FTE Clean Water Coordinator for Conservation District	Grant is expiring need to identify new funding Conservation District	\$50,000 in design \$130,000 per year	DEP and some match with District DEP

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Borough

- 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 **Resources Needed Potential Resources Available Implementation** Performance **Challenges or** Action Geographic Expected Suggested Suggested Description Target(s) Location Timeline Recommendations **Technical Financial Technical** Source **Financial** Source **Partners** Source Source \$93,000 3.3Bb **Implement** Develop cost share **Blair County** Non-MS4 2021 - 2023 Will work with NRCS Blair County's Blair 2 – Municipal Municipalities, \$280,000 per **TBD** Dirt and staff to identify farms **Planning Blair County** program to fund Conservation communitie County's Engineers year **National Fish Green Infrastructure** District, Blair s of needing road/culvert **Gravel Low** Dirt and Commission, and Wildlife and riparian buffer Beaverdam repair; however, Volume Road **Gravel Low** COG County Municipalities, Watershed NRCS staff is limited Program Volume Foundation practices 3 - FTE Design, DEP/NRCS/ Innovative NRCS, Tyrone and working beyond Road Private Sector/ \$420,000 Township and their scope is difficult TU Chapter, Engineer, Permit **BCCD** SCC/PDA **Nutrient and** Target stormwater Program Sediment practice Tyrone Little Juniata Volunteer Reductions Borough, Blair Time \$80,000 implementation River Municipal upstream of D&G **County Farm Public** 2 – stream USGS/PAFBC/ \$280,000 per DEP/DCNR/ EPA (INSR) Association, Tri-Run Roads Bureau Works biologists etc. year Strengthen Watershed the Offer cost shared Association, \$10,000 Riparian 6 – additional Ag District/NRCS/Pr \$780,000 per DEP/NRCS/ SCC/PDA program to reduce Alliance for Buffer Planners to ivate Sector partnership year with Blair sediment pollution the **Funds Trout** provide technical **Farm Visits** from unpaved roads Chesapeake Unlimited County assistance and ag and culvert outlets Municipalities Bay, County planning by scaling up in the AG sector - 10 Farm Bureau Dirt and 3 - FTE DEP/NRCS/ projects total Private Sector/ \$315,000 per Gravel/Low construction **BCCD** year SCC/PDA Volume Road **Implement** inspector services **Program** Stormwater **Practices in Tyrone** Township and

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- 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 **Potential Resources Available Resources Needed Implementation Challenges or** Action Performance Geographic Expected Suggested Suggested Description Location **Timeline** Recommendations **Technical Financial Technical Financial** Source Target(s) **Partners** Source Source Source 3.3Bc **Implement** Accelerate the **Blair County** Beaverdam, 2021 - 2023 **NRCS Staff is limited** Plan Writers Nutrient Nutrient 2 – Municipal Municipalities, \$280,000 per **TBD Planning** Conservation Frankstown **Blair County** adoption of Management Managemen Engineers year The principal gap that **National Fish** regenerative District, Blair Watershed Program and t Program Commission, limits our capacity to and Wildlife agriculture practices is primary DEP's and DEP's COG County on farms in Blair focus, Little scale up is the lack of Chesapeake Chesapeake Foundation -Municipalities, funding and farmer 3 - FTE Design, DEP/NRCS/ Innovative County and establish NRCS, PA Soil Juniata **Bay Program** Bay Private Sector/ \$420,000 understanding of the a Regional Soul Watershed Engineer, Permit **BCCD** SCC/PDA **Nutrient and** Health Program need to adopt Sediment Health Hub in Coalition, is a regenerative ag 2 – stream Reductions partnership with Pa Project Grass, secondary (INSR) Soil Health Coalition PAGLC, PA Norelated practices biologists USGS/PAFBC/ DEP/DCNR/ EPA priority \$280,000 per Till Alliance, etc. year Conduct 5 farmers 6 – additional Ag DEP/NRCS/ workshops Planners to District/NRCS/Pr \$780,000 per SCC/PDA provide technical ivate Sector year Utilize multi-county assistance and ag **Farm Visits** grazing group to planning further promote the DEP/NRCS/ use of prescribed 3 - FTE inspector Private Sector/ \$315,000 per SCC/PDA grazing construction **BCCD** year Services DCED 3.4B **Exploring** Need to conduct a JK Chapter of 2022 Lack of staffing with **Technical** 6 – additional Ag District/NRCS/Pr \$780,000 per DEP/NRCS/ Spencer Conservation opportunities watershed TU, Army Core complete quick grant assistance District Keystone Planners to ivate Sector SCC/PDA Run year of Engineers **Farm Visits** to develop a assessment for Watershed watershed turnaround. Communitie provide technical plan for Spencer Run. assistance and ag assessment Spencer Run Funding already Plan development planning established can take time. \$150,000 to EPA/DEP/ NFWF/DCNR/PA Already conducted a develop a plan flood assessment for Spencer FBC Run

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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

						Potential		Resources Av	<u>ailable</u>			Resources	<u>Needed</u>	
						Implementation								
Acti	n	Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
3.5		Altoona Water Authority is currently in the process of building a new regional digestor to handle biosolids and manure from regional facilities within 50 miles. The facility will process nutrients and produce a low concentration Class A waste that will be land applied.	Altoona Water Authority, Regional waste producers who transport to digestor,	Altoona, PA Glen White Run Watershed - Biosolid Application	2022	There is potential the digestor will be processing manure generated outside of the Chesapeake Bay Watershed. These nutrients will be contributed to Blair County loads.	Day to day operation	Altoona Water Authority	\$36 million	Altoona Water Authority	1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP

		<u>Green</u> - act	tion has been com	pleted or is mo	ving forward a	s planned <u>Yellow</u> - act	ion has encounte	ered minor obsta	acles <u>Red</u> - a	action has no	t been taken or has en	ncountered a seriou	s barrier	
						Potential		Resources A	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
	•			'									,	
Priori	tv Initiative	3C: Achieve New	v Pollutant R	Reductions	Cambria (County								
3.1Ca	Implement	Increase the number	CCPC,	Cambria	Ongoing	Lack of funding and					1 – Municipal	Municipalities,	\$140,000 per	TBD
	the 2020	of stream	Municipalities,	Countywide		technical assistance					Engineers	Planning	year	
	Cambria	restoration BMPS	CCCD, DEP	,		to support						Commission,	(
	County	installed, submit	BAMR, PDA,			restoration						COG		
	Conservation	grants once a year	DEP, Cambria			initiatives, landowner								
	District	to implement AMD	County			issues					2 – FTE Design,	Private Sector/	\$280,000	DEP/NRCS/
	Strategic Plan	and AG impaired	Redevelopmen								Engineer, Permits	CCCD		SCC/PDA
		waters (2 miles of	t Authority,											
		AMD stream by	DCNR, NRCS,											
		2025, Glendale Lake	Prince Gallitzin								1 – stream	USGS/PAFBC/	\$140,000 per	DEP/DCNR/ EPA
		streambank	State Park, SCC,								biologists	etc.	year	
		stabilization)	PACD,								0 - 1/11/1 - 1/1 4 -	District AND CC /D	¢200 000	DED/NDCC/
		Canada at 10	EPCAMR, WPC,								3 – additional Ag	District/NRCS/Pr	\$390,000 per	DEP/NRCS/
		Conduct 10	Americorps, Bens Creek								Planners to	ivate Sector Farm Visits	year	SCC/PDA
		comprehensive farm evaluations for	Canoe Club,								provide technical assistance and ag	railli visits		
		BMPs (assume 60	PAFBC, PSU								planning			
		acres per farm – 600	Extension,								platiting			
		acres of new	Clearfield								2 – FTE inspector	Private Sector/	\$280,000 per	DEP/NRCS/
		potential planning),	Creek								construction	CCCD	year	SCC/PDA
		Funding by 2025	Watershed								Services		'	'
			Association,											
		Assist 5 farmers per	Chest Creek								1 – FTE Clean			
		year with soil	Watershed								Water Coordinator	Planning	\$130,000 per	DEP
		conservation and	Association								for Planning	Commission	year	
		nutrient									Commission			
		management plans												
		(portion of 10,000									1 – FTE Clean	Conservation	\$130,000 per	DEP
		acres of new soil									Water Coordinator	District	year	
		conservation and									for Conservation			
		water quality plan									District			
		goal)												

	T T	Green - act	tion has been com	ipleted or is mo	oving forward a		ion has encounte			ction has no	t been taken or has e			
						Potential		Resources A	<u>vailable</u>			Resources	Needed	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
3.1Cb	Implement	Develop MOUs with	CCPC,	Cambria	Ongoing	Lack of funding and					1 – Municipal	Municipalities,	\$140,000 per	TBD
	the 2020	municipalities on	Municipalities,	Countywide		technical assistance					Engineers	Planning	year	
	Cambria	E&S, meet with 12	CCCD, DEP			to support						Commission,		
	County	municipalities per	BAMR, PDA,			restoration initiatives						COG		
	Conservation	year	DEP, Cambria											
	District		County								2 – FTE Design,	Private Sector/	\$280,000	DEP/NRCS/
	Strategic Plan	Meet with 15	Redevelopmen								Engineer, Permits	CCCD		SCC/PDA
		municipalities in 3	t Authority,											
		years to promote	DCNR, NRCS,											
		stormwater	Prince Gallitzin								1 – stream	USGS/PAFBC/	\$140,000 per	DEP/DCNR/ EPA
		management	State Park, SCC,								biologists	etc.	year	
		planning	PACD,											/ /
			WPCAMR,								3 – additional Ag	District/NRCS/Pr	\$390,000 per	DEP/NRCS/
		Meet with county	WPC,								Planners to	ivate Sector	year	SCC/PDA
		agencies to promote									provide technical	Farm Visits		
		stormwater planning									assistance and ag			
		and ACT 167	Canoe Club,								planning			
		requirements	PAFBC, PSU								2 FTF in an action	Duivete Center/	¢200,000	DED/NDCC/
		Have at least 4	Extension								2 – FTE inspector	Private Sector/	\$280,000 per	DEP/NRCS/
		Have at least 1									construction	CCCD	year	SCC/PDA
		demonstration									Services			
		project by 2022 to									1 – FTE Clean	Planning	\$120,000 por	DEP
		showcase									Water Coordinator		\$130,000 per	DEP
		stormwater BMPs									for Planning	Commission	year	
		Achieve addition of									Commission			
		2 staff to district									COMMINISSION			
											1 – FTE Clean	Conservation	\$130,000 per	DEP
		employees by 2025									Water Coordinator	District	year	DLF
l		Increase 1 FTE for									for Conservation	District	year	
		program support,									District			
		environmental									2130100			
		education, and												
		accounting												

	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>					Resources	Needed	
tion # D							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
Bru Co	nplement rubaker Run old Water onservation an	Address remaining AMD and AML issues through restoration efforts	CCPC, Municipalities, CCCD, PAFBC	Brubaker Run Watershed	Ongoing	Lack of technical assistance to support with implementation of restoration initiatives					1 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$130,000 per year	DEP
		Culvert replacement projects Opportunities for stream restoration	municipal officials, business owners, residents and			Lack of funding to support restoration efforts					1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP
		near Hastings Work with farmers to educate them on	PennDOT for stormwater BMPs			Need to secure AMD/AML funding							\$500,000 to support implementatio n of Plan	DEP/DCNR/ NFWF/ PAF
		erosion and sediment control Continue to fund Dirt and Gravel Road											Other funding is identified throughout initiatives	
	1	3F: Achieve Nev		1		•			DI.	Con in		C	64 000 000 1	DED 240
wa im on	evelop a atershed aplementati a plan for Big ove Creek	Conservation District received a Growing Greener grant to develop a Plan for Big Cove Creek. Ensure the goals of this WIP align with CAP goals. Use the plans to leverage funding. Mainly AG Implementation, some urban implementation, and forest management.	FCCD, Center for Watershed Protection	Big Cove Creek Upper portion of Big Cove Creek is primary focus for impaired restoration efforts	2022 Plan Developme nt 2023 Secure funding 2024 begin implementa tion	District is focusing many of the AG activities and stream restoration in this watershed. Ensure the Plan allows the CD to utilize 319 funding to support implementation. Consider utilizing rapid delisting approach to identify most cost-effective landowners to			Plan Writing Dollars	Growing Greener Grant	Implementation Support	Conservation District	\$1,000,000 to support implementatio n of the plan	DEP 319 Program

		Green - ac	tion has been co	inpleted or is mo	oving forward a		ection has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier							
						Potential	Resources <u>Available</u>					Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggeste
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
3.2F	Exploring	Look to secure	FCCD, NRCS,	Cove Run	2022 –	Securing funding to					Rapid Delisting	Chesapeake	\$150,000 for	Growing
	opportunities	funding to write a		Watershed	secure	support the					approach	Conservancy	plan	Greener
	to develop a	develop either a 319			funding for	development of an							development	
	plan for Cove	WIP, Alternative			plan	additional watershed								
	Run	Restoration Plan or			developmen	plan.								
	Watershed	Cold-Water			t									
		Conservation Plan to				Might be able to								
		support			2023 –	move forward with								
		implementation			begin plan	some								
		goals of the Phase 3			writing	implementation								
		WIP.				projects without plan								
						development.								
3.1H*	Implement	Continue	Shoups Run	Miller Run	Ongoing	Lack of technical					1 – FTE Clean	Planning	\$130,000 per	DEP
		3H: Achieve Nev				•					1 – FTF Clean	Planning	\$130,000 per	DEP
	the Miller Run	semiannual water	Watershed	Watershed		assistance to support					Water Coordinator	Commission	year	
	Cold Water	quality monitoring	Association,			with implementation					for Planning			
	Heritage		HCCD, PA			of restoration					Commission			
	Conservation	Continue to Address	Game			initiatives								
	Plan	remaining AMD and	Commission								1 – FTE Clean	Conservation	\$130,000 per	DEP
		AML issues through				Lack of funding to					Water Coordinator	District	year	
		restoration efforts,				support restoration					for Conservation			
		ongoing maintenance of				efforts					District			
		existing systems				If existing AMD							\$50,000 for	DEP/USGS
		existing systems				system fail water							funding and	221,0303
		Ensure farmland				quality will return to							technical	
		managed by Game				hazardous levels							assistance to	
		Commission has											continue	
		BMPs and are				Miller Run has been							monitoring	
		properly managed				delisted, but macros							and	
						still need							maintenance	
		Reporting and				improvement.								
						·								
		Verification of					1		1		1		1	1
						Work with Juniata								
		existing projects												
						Work with Juniata College to perform additional monitoring								

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Resources Available Resources Needed Potential Implementation** Performance Geographic Expected **Challenges or** Action Suggested Suggested Source Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** 9/2021 3.2H **Implement** Plan is currently **HCCD** Standing Lack of technical 1 – FTE Clean **Planning** \$130,000 per DEP Standing under development Stone Creek completion **Water Coordinator** Commission assistance to support year Stone Creek and set to be Watershed with implementation for Planning finished in Coldwater Ongoing of restoration Commission September of 2021 implementa initiatives Conservation Plan 1 – FTE Clean Conservation DEP tion \$130,000 per This plan is an Lack of funding to **Water Coordinator** District year opportunity to help support restoration for Conservation implement CAP efforts District **Initiatives** \$500,000 to DEP/DCNR/ NFWF/ PAFBC support implementatio n of the plan Juniata College has Juniata College, 1 – FTE Clean \$130,000 per DEP Juniata Juniata **Ongoing** Partner with Volunteer Juniata Planning 3.3H **Water Coordinator** University established a "Tree Tree Advisory College **Huntingdon Borough** College Commission year services **Urban Tree** Care Plan" along Committee, tree commission and for Planning borough to Initiative with a tree advisory Huntingdon Commission committee to **Borough Tree** implement projects. further Commission If the tree 1 – FTE Clean Conservation \$130,000 per DEP implementation of and service commission has more Water Coordinator District year trees on campus. funding, they could for Conservation implement more District Partner with projects. **Huntingdon Borough** \$50,000 to TBD **Tree Commission** support Huntingdon **Borough Tree** Commission

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential** Implementation Action **Performance** Geographic Expected **Challenges or** Suggested Suggested **Timeline** Source Description Target(s) **Partners** Location Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** 2024-2025 1 – FTE Clean \$130,000 per DEP 3.4H* Explore A desire to SRBC, Great Funds are available to Planning implement plans at address Great Trough **Water Coordinator** Commission options for Chesapeake Trough year developing a Great Trough Creek, Conservancy, Creek, Creek; however, for Planning watershed Dudley Discharge, Conservation Dudley funds are in general Commission restoration Fort Run, Warriors District Discharge, services and there is Fort Run, a legal battle 1 – FTE Clean DEP plan at Great Run. Conservation \$130,000 per Trough Creek, Warriors transferring these **Water Coordinator** District year Dudley DEP developing a Run, Sadler funds to Bureau of for Conservation Mining. This must be Discharge, plan on Great Creek District Fort Run, Trough Creek to accomplished before Warriors Run DEP/DCNR/ address the Dudley a plan can be \$150,000 per plan → NFWF/PAFBC Run Discharge. developed. \$600,000 total

for four plans

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation** Action **Performance** Geographic Expected **Challenges or** Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source BAMR, 3.5H **Shoups Run** BAMR is currently in Great Ongoing DEP must be 1 – FTE Clean Conservation \$130,000 per DEP 319 WIP the design phases of successful with the **Water Coordinator** District Conservation Trough year an abandoned mine District Creek and implantation of the for Conservation **Dudley Discharge** land reclamation Dudley District project in the Great Discharge, AMD site. **Trough Creek** Shoups Run DEP/DCNR/ \$500,000 for watershed plan NFWF/ PAFBC approximately 4 implementatio miles south of Dudley. Streambank stabilization projects and dirt and gravel road BMP's using high calcium limestone have been identified as possible solutions to the acidic deposition problem Plans to construct a wastewater treatment facility for the remaining populated areas of Dudley, Coalmont Borough, and Carbon Township have been completed, funding has been secured, and construction has begun.

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						Potential	Resources <u>Available</u> Resources <u>Need</u>							
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Driorit	ty Initiativo	1: Achieve New	Dollutant P	oductions (Blair Cam	hria Eulton Hun	tingdon)							
4.1	Rapid	Rapid delisting will	Chesapeake		2021-2024	bria, Fulton, Hun Reinvigorating	Program	Chesapeake	\$500,000	NFWF Grant	11 – additional FTE	Chesapeake	\$1,430,000 per	DEP/NRCS/
4.1	Delisting	identify priority	Conservancy	and	2021 2024	landowner interest,	management	Conservancy	7500,000	Wi Wi Grant	municipal/	Conservancy,	year	SCC/PDA/
	Catchment	areas and BMPs	and partners	Tributary to		design/permit/constr	and GIS	,			environmental	CBF, etc.	,	DCNR/NFWF/
	Strategy			Piney Creek		uction schedules,					planners			Growing
	through the			(B)			Landowner	Partnership						Greener/ EPA
	Precision			Decales Deca			outreach	stakeholders					¢400.000	EDA/DED
	Conservation Partnership			Duclos Run – Chest									\$100,000 dollars to	EPA/DEP
	raithership			Creek									complete rapid	
				watershed									delisting	
				(ag									program	
				impaired									management	
				due to									per year per	
				sediment,									county → total	
				former potato									cost \$2,000,000	
				production,									\$2,000,000	
				now									Other funding	
				corn/bean									identified in	
				with cover									below	
				crop and									initiatives	
				no-till) (C)										
				Cove Run										
				and Big										
				Cove Creek										
				(F)										
				Marriara										
				Warriors Mark Run										
				and North										
				Branch of										
				the Little										
				Aughwick										
				Creek (H)										

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- 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 **Potential Resources Available Resources Needed Implementation Challenges or** Action Performance Geographic Expected Suggested Suggested Description Target(s) Location Timeline Recommendations **Technical** Source **Financial Technical** Source **Financial** Source **Partners** Source 2022-2025 DEP/NRCS/ 4.2(B)* Help farmers **Soil and Water** 4R Alliance, **Blair County** Lack of DEP 6 – additional Ag District/NRCS/Pr \$780,000 per and operators BCCD, Blair ivate Sector SCC/PDA Quality Ag Land inspections. Planners to work year to be in **Conservation Plans County Farm** with farmers to Farm Visits compliance (AG E&S) 25,000 Bureau, NRCS, Reporting and develop required **Private Sector** verification of AG plans with state and new acres federal Agriculture Plans, NRCS plans Farm Visits, TBD based on requirements: Nutrient expire and do not get Private Sector Ag **Management** Precision reverified, private Planners – farmers resources listed Conservation more willing to above and Nutrient (Manure Agriculture, plans are never Management Management) Agway, PSU entered. work with them Plans 25,000 new acres of Extension opposed to district Core N and 15,000 Lack of Technical new acres of Core P assistance to support DEP/SCC/ agriculture planning Conservation \$15 per acre Work with ACT 38 and implementation, **Plans** for a total cost PDA/NRCS of \$375,000 operators (8), one on one farm **Preserved Farms** outreach is best way \$15 per acre DEP/SCC/ (56), enter existing to capture existing Core N and Core PDA/NRCS plans that were plans. for a total cost inspected but not of \$225,000 reported to PK and Act 38 and Preserved certified organics to Farms not required to document plans enter plans in PK, already required Recommendations to require programs to enter plans into PK State agencies must work with integrators to ensure they are requiring compliance by farmers. Some integrators require compliance, but not all, great way to communicate with farmers as well.

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already required

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						Potential	Resources <u>Available</u>					Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.2(F)*	See 4.2B	Soil and Water	4R Alliance,	Fulton	2022-2025	See 4.2B	75 inspections	FCCD			6 – additional Ag	District/NRCS/Pr	\$780,000 per	DEP/NRCS/
		Quality	FCCD, Fulton	County Ag			performed per				Planners to work	ivate Sector	year	SCC/PDA
		Conservation Plans	County Farm	Land		Better information	year; 17 plans				with farmers to	Farm Visits		
		(AG E&S) 15,500	Bureau, NRCS,			sharing with NRCS.	developed per				develop required			
		new acres	Private Sector				year				plans.			
			Agriculture			Chesapeake Bay								
		Nutrient	Farm Visits,			Inspections are the	NRCS can					Conservation	\$15 per acre	DEP/SCC/
		Management	PSU Extension			best way to capture	develop and					Plans	for a total cost	PDA/NRCS
		(Manure				and document Plan	update about	NRCS					of \$232,500	
		Management)				Compliance	20 plans per							
		24,500 new acres of					years.					Core N and Core	\$15 per acre	DEP/SCC/
		Core N and 18,500				Prefer additional						Р	for a total cost	PDA/NRCS
		new acres of Core P				District staff over a							of \$277,500	
						consultant to conduct								
		Work with ACT 38				one on one farm								
		operators (12),				outreach								
		Preserved Farms												
		(240 acres), and												
		certified organics to												
		document plans												
		already required												

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation** Action Performance Geographic Expected **Challenges or** Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source 2022-2025 See 4.2B **Soil and Water** 4R Alliance, **HCCD** DEP/NRCS/ 4.2(H)* Huntingdon See 4.2B 12 Inspections 6 – additional Ag District/NRCS/Pr \$780,000 per SCC/PDA Quality HCCD, County Ag completed per Planners to work ivate Sector year **Conservation Plans** Huntingdon Land year for a total with farmers to **Farm Visits** (AG E&S) 30,000 **County Farm** of about 50 meet 4R standards Bureau, NRCS, completed new acres **Private Sector** over the last 4 Private \$250,000 cost DEP Cost share support **Nutrient** Agriculture for equipment Consultant/ share budget years Management Farm Visits, (Spreaders) District/ NRCS (maintenance, (Manure R&R staff support and cost) Management) Engineering, 25,000 new acres of 0.5 FTE -DEP Core N and 15,000 Conservation \$65,000 per new acres of Core P Chesapeake Bay District year Technician to Work with ACT 38 expand this operators (24), position to a full-Preserved Farms time position (11), and certified organics to DEP/SCC/ Conservation \$15 per acre document plans **Plans** for a total cost PDA/NRCS already required of \$450,000 \$15 per acre Core N and Core for a total cost DEP/SCC/ of \$225,000 PDA/NRCS

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						Potential		Resources A	Available			Resources	Needed	
								incodifices <u>r</u>	<u> </u>			Resources	<u>ITCCUCU</u>	1
Action		Performance		Coographic	Expected	Implementation Challenges or						Suggested		Suggested
ACTION				Geographic	•							Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.3	Advanced	Transition manure	4R Alliance, CD,	Blair County	2022-2025	Landowner interest,	Educational	CBF/4R			21 – additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	Nutrient	management plans	County Farm	Ag Land		BMP verification	support	Alliance			Planners to	ivate Sector	year	SCC/PDA
	Management	to nutrient	Bureau, NRCS,			(annual)					provide technical	Farm Visits		
	(4R) Practice	management plans	Private Sector	Cambria							assistance and ag			
	Education and	and incentivize	Agriculture	County AG		Lack of Technical					planning (Blair - 6,			
	Implementati	implementation	Farm Visits,	Land –		assistance to support					Cambria - 3,			
	on	Increase existing 4R	Precision	Chesapeake		agriculture planning					Huntingdon - 6,			
		practice (N Rate, N	Agriculture,	Bay		and implementation					Fulton - 6)			
		Timing and N	Agway, PSU	Watershed										
		Placement by 5,000	Extension			Additional funding to					Cost share support	Cambria	\$250,000 cost	DEP
		acres per year) (B)		Fulton		support soil testing.					for equipment –	Conservation	share budget	
				County Ag		Soil testing is key to					precision AG	District		
		(N/P Rate, N/P		Land		meeting the					Spreader (C)			
		Timing and N/P				recommendations of								
		Placement by 1,000		Huntingdon		supplemental BMPs.					Cost share support	Private	\$250,000 cost	DEP
		acres per year) (C)		County AG							for equipment	Consultant/	share budget	
				Land		Machine dependent					(Spreaders) (H)	District/ NRCS	(maintenance,	
		(N Rate by 500				for most farming							staff support	
		acres, N Timing by				operations							and cost)	
		6,000 acres, N												
		Placement by 6,000				Cost of fertilizer is							\$10 per acre of	
		acres and P				self-regulating							advanced	SCC/NRCS/ 4F
		Placement/rate/				farmers to use less							nutrient	Alliance
		timing by 4,000				fertilizer; therefore,							management	
		acres) (F)				lower rates							planning per	
													type → total	
		(N Rate by 4,000, P											cost for all is	
		Rate by 8,000, N/P,											\$895,000	
		Timing and												
		Placement by 8,000												
		acres per year) (H)												

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		<u>Green</u> - act	tion has been com	npleted or is mo	ving forward a	s planned <u>Yellow</u> - ac	tion has encount	ered minor obsta	icles <u>Red</u> -	action has no	t been taken or has er	ncountered a seriou	s barrier	
						Potential		Resources Av	<u>railable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.4*	Implement	Determine feasibility	CD, County	Blair County	2022-2023	Current verification	Transect	Capital RC&D	EQIP –	NRCS	21 – additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	Practice to	of having a county	Farm Bureaus,	Ag Land		methods do not	survey		pays \$50		Planners to	ivate Sector	year	SCC/PDA
	improve soil	cost share program	NRCS, Private			accurately capture			per acre		provide technical	Farm Visits		
	health and	to enhance adoption	Sector	Cambria		implemented	2 – No till	Cambria	for single		assistance and ag			
	sustainability	of the annual	Agriculture	County AG		amounts - work with	drills for rent	County	species,		planning (B-6, C-3,			
	(Tillage	practice, pay	Farm Visits,	Land –		Capital RC&D and		District	\$60 per		F-6, H-6,)			
	Management	incentive per acre	Precision	Chesapeake		DEP to improve			acre for 3		Coot also no occurso at	Full an	¢250,000+	DED
	and Cover	Implement tillage	Agriculture,	Bay		transect survey	1 – No till drill	Fulton County	species		Cost share support	Fulton	\$250,000 cost	DEP
	Crops)	management and cover crops on an	Agway, PSU Extension	Watershed		routes and data collection	for rent	Fulton County District			for equipment – no-till drill (F)	Conservation District	share budget (maintenance,	
		annual rate of	LATERISION	Fulton		methodology. Lack	TOTTETIC	District			no-tili drili (i)	District	staff support	
		19,000 acres High		County Ag		of technical							and storage)	
		Residue, 12,000		Land		assistance and farm							aria storage,	
		acres Conservation				planners to work with					Cost share support	Private	\$250,000 cost	DEP
		Tillage, 5,200 acres		Huntingdon		farmers to transition					for no-till drill (H)	Consultant/	share budget	
		Low Residue, 8,500		County AG		to High Residue						District/ NRCS	_	
		acres cover crops,		Land		Tillage.								
		and 12,500 acres				Farmers are					County	Cover Crop	\$90 per acre	PDA, SCC,
		cover crops with fall				harvesting cover					Conservation	Incentive	traditional per	Growing
		nutrients (B)				crops for animals,					District – staff to	Program	year →	Greener, PACD
		8,000 acres HR				need accurate					administer the		\$2.745M for a	
		6,500 acres CT,				crediting for					program		5-year total of	
		3,000 acres LR, 6,300 acres of CC				commodity cover							\$13.725M	
		and 1,000 acres CC				crops. Existing Cover Crop Programs have							(incentive payment,	
		with fall nutrients				strict plant by date							capital RC&D)	
		(C)				that does not work							\$50 per acre	
		10,000 acres HR,				with changing							fall nutrients	
		7,700 acres CT,				weather patterns and							per year >	
		5,000 acres LR 7,700				wetter years.							\$1.61M for 5-	
		acres CC and 8,700				Organic farmers are							year total of	
		acres CC with fall				using tillage to							\$8.05M	
		nutrients (F)				manage weeds and								
		20,000 acres HR,				vertical tillage is					Capital RC&D	Improved data	\$150,000	DEP
		10,000 acres CT,				becoming more					Transect Survey	reporting		
		4,000 acres LR,				popular among						(tillage)		
		8,000 acres CC and				farmers, younger								
		10,000 acres CC with fall nutrients				generation is "trying"								
		(H)				tillage for experience. Potato farmers use								
		('')				tillage as part of their								
						operational plans								
						operational plans						1		

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Resources Needed Potential** Resources **Available Implementation** Performance Geographic Expected **Challenges or** Action Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source 2022-2025 **NRCS** CBF grant ARC DEP/NRCS/ 4.5B* **Implement** Prescribed grazing -BCCD, Blair **Blair County** Landowner Landowner 6 – additional Ag District/NRCS/Pr \$780,000 per **Funding Planners** ivate Sector SCC/PDA more pasture 80 acres **County Farm** Ag education, BMP education year management Bureau, NRCS, landowners funding for non-Farm Visits **BMPs** Forest buffers on **Private Sector** who raise buffer work, plan fenced pasture updates, data 3 – additional FTE Chesapeake \$390,000 per DEP/NRCS/ Agriculture horses, corridor - 35 acres SCC/PDA/ Farm Visits, dairy, beef, gathering environmental Conservancy, year Precision and other technician CBF, WPC, etc. DCNR/NFWF **Grass buffers on** Agriculture, Lack of Technical pasture fenced pasture Prescribed DEP/NRCS/ Agway, PSU grazing assistance to support corridor - 35 acres grazing \$540 SCC/PDA/ Extension animals agriculture planning per acre → DCNR/NFWF/ and implementation Land retirement to \$43,200 total Growing AG Open Space -Greener/ EPA 300 acres FB Buffer with DEP/NRCS/ **Exclusion** SCC/PDA/ \$10,500 per DCNR/NFWF/ acre → Growing Greener/ EPA \$367,500 total **GB** Buffer with DEP/NRCS/ **Exclusion** SCC/PDA/ \$2,750 per DCNR/NFWF/ acre → Growing Greener/ EPA \$96,250 total Land DEP/PDA/ SCC/NRCS Retirement \$500 per acre

→ \$150K total

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\$500 per acre

→ \$35K total

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Green action has been completed or is moving forward as planned. Vollows action has encountered minor obstacles. Ped action

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														
						Potential		Resources Av	<u>vailable</u>	1		Resources	Needed	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.6(H)*	Riparian buffer and re- forestation BMPs	414 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R	Huntingdon County Ag Land	2022-2025	See 4.6B	Materials Mapping	HCCD (in-kind, annual tree sale efforts), CBF Chesapeake Conservancy	Budget available to be determin ed	CBF, NFWF, NFWS, NRCS - CREP	6 – additional Ag Planners to provide technical assistance and ag planning 3 – additional FTE	District/NRCS/Pr ivate Sector Farm Visits	\$780,000 per year \$390,000 per	DEP/NRCS/ SCC/PDA DEP/NRCS/
		65 riparian grass buffer acres –30 new buffer acres; Need to recredit additional acres lost since 2010 24 acres – Agriculture Tree Planting 40 acres – urban forest buffer	Engineering, Huntingdon Borough Tree Commission, Juniata River Blueprint Community, Juniata College, Mount Union Borough								environmental technician	Conservancy, CBF, WPC, etc.	Forest Buffer \$10,000 per acre → \$500,000 total Grass Buffer \$2,500 per acre → \$75,000 total	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage Partnership Implementation Grants, Landscape Scale Restoration
		30 acres – urban tree canopy 10 acres – Urban Forest Planting											Tree/Forest Planting \$10,000 per acre → \$340,000 total	(LSR) Grant Program – US Forest Service, Pennsylvania Habitat Stewardship
		850 acres – Forest Harvesting Practices											Tree Canopy \$5,000 per acre → \$150,000 total	Program, Alliance for the Bay, CBF, Chesapeake Conservancy,
													Forest Harvesting \$60 per acre → \$51,000 total	U. S. Forest Service Annual Landscape Scal Restoration Grant Program

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Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier Resources **Available Resources Needed Potential Implementation** Action Performance Geographic Expected **Challenges or** Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical** Source **Financial** Source **Technical** Source **Financial** Source 26 acres of Wetland 2022 -2025 DEP/DCNR 4.7 Wetland Conservation **Blair County** Willing landowner; Landowner Conservation 11 – additional FTE Chesapeake \$1,430,000 per District and **Restoration (B)** environmental restoration Districts, Ag Land appropriate siting, outreach Conservancy, year implementati County Farm design, and NRCS staff technician CBF, WPC, etc. on on 28 acres of Wetland Bureaus, NRCS, Cambria construction for person marginal **Restoration (C) Private Sector** County Ag successful restoration 7 – USGS/PAFBC/ \$980,000 DEP/DCNR/ Land – result stream/wetland PAFBC/USGS production ag Agriculture District/etc. land 18 acres of Wetland Farm Visits, Chesapeake biologist Restoration (F) Precision **Bay Portion** Lack of technical Agriculture, assistance for Wetland DEP/DCNR/ 14 acres of Wetland Agway, PSU Fulton landowner outreach Restoration **USDA Restoration (H)** \$30,000 per Conservation Extension, County Ag and agriculture Watershed Land planning to identify $acre \rightarrow$ Reserve \$2.58M Organizations potential site Program (CRP) or NRCS Huntingdon locations County Ag Wetlands Land Lead time it takes to Reserve Program (WRP) secure projects can take years

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- 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 **Resources Needed Potential Resources Available Implementation** Performance Expected **Challenges or** Action Geographic Suggested Suggested Description Target(s) **Partners** Location Timeline Recommendations **Technical Financial Technical** Source **Financial** Source Source Source 4.8 Stream 31,240 (~6 mile) CBF, Blair 2022 - 2025Design/permit/constr Design/GP-1 **Trout** Design, permit, Private sector, Urban -Assume Growing **Linear feet Urban** USFWS, TU \$900/LF Greener, NFWF, Restoration Chesapeake Countywide uction cycle seems to permit Unlimited, construction (Urban and Stream Restoration, Conservancy, and Priority work in two-year Municipalities \$41.1 M DEP, DCNR, assistance services PAFBC, USGS Agriculture) 3,000 Linear feet Ag TU National, **HUCs** increments, there is **Stream Restoration** PFBC Stream an assumption that Cambria TBD (B) Restoration eroded/degraded Ag - Assume Team, NRCS, Countywide streams exist based \$400/LF -\$8.40 8.400 Linear feet Conservation and Priority upon 403(d) listing -М **Urban Stream** HUCs should that not be District, Planning Chesapeake the case in the field, 7 – Municipal Municipalities, \$980,000 per DEP/NRCS/ Restoration, 4,000 Engineers (Blair SCC/PDA **Linear feet Ag** Commission, **Bay Portion** adjust quantitative Planning year **Stream Restoration** goal down and 2, Cambria - 1, Commission, Municipalities, (C) ISC, Watershed Fulton ensure buffers are in Fulton - 2, COG Organizations, Countywide place Huntingdon - 2) 3,000 Linear feet Trust for and Priority **Urban Stream** HUCs Lack of funding to 11 - FTE Design, \$1,430,000 per DEP/DCNR/ Tomorrow, Private Sector/ cover engineering Engineer, Permit District/NRCS PAFBC/USGS Restoration, 10,000 WPC, TU JK year Linear feet Ag Chapter Huntingdon design (Blair - 3, Cambria **Stream Restoration** Countywide - 2, Fulton - 3, (F) and Priority Huntingdon - 3 **HUCs** 3,000 Linear feet 7 – stream USGS/PAFBC/ \$980,000 per DEP/DCNR/ PAFBC/USGS **Urban Stream** biologists (Blair - 2, District/etc. year Restoration, 4,000 Cambria - 1, Fulton - 2, Huntingdon -**Linear feet Ag** 2) **Stream Restoration** (H)

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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														
						Potential		Resources A	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.9	Implement	30 acres of barnyard	Conservation	Blair County	2022 –2025	Landowner buy-in	Engineering	NRCS			21 – additional Ag	District/NRCS/Pr	\$2,730,000 per	DEP/NRCS/
	more	runoff controls (16	District, County	Ag Land		and project	Support				Planners to	ivate Sector	year	SCC/PDA
	barnyard	acres reverified),	Farm Bureau,			development/funding					provide technical	Farm Visits		
	runoff	Work with GIS	NRCS, Private	Cambria							assistance and ag			
	control/loafin	department to	Sector	County Ag		Lack of Technical					planning (Blair - 6,			
	g lot	identify barnyards	Agriculture	Land –		assistance to support					Cambria - 3,			
	management	within 150 feet of	Farm Visits,	Chesapeake		agriculture planning					Huntingdon - 6,			
		stream for	Precision	Bay Portion		and implementation					Fulton - 6)			
		prioritizing (B)	Agriculture, Agway, PSU	Fulton		Lack of funding to					11 – FTE Design,	Private Sector/	\$1,540,000 per	DEP/NRCS/
		5 acres of barnyard	Extension	County Ag		cover engineering					Engineer, Permit	District		SCC/PDA
		runoff controls (2	LATERISION	Land		design					(Blair - 3, Cambria	District	year	SCC/FDA
		acres reverified),		Lariu		uesigii					- 2, Fulton - 3,			
		100 acres of		Huntingdon		Increasing					Huntingdon - 3)			
		agricultural		County Ag		construction costs					Trantingaon of			
		drainage		Land		are cancelling NRCS					11 – FTE Inspector	Private Sector/	\$1,155,000 per	DEP/NRCS/
		management (C)				contracts					Construction	District	year	SCC/PDA
											Services (Blair - 3,		'	,
		10 acres of barnyard									Cambria - 2, Fulton			
		runoff controls (2									- 3, Huntingdon -		Barnyard	DEP/NRCS/
		acres reverified), 29									3)		Runoff Control	SCC/PDA/
		acres of agricultural											\$175K per	PennVEST
		drainage											project,	
		management (F)											assume 1 acre	
													per project	
		40 acres of barnyard											\$9.625M in	
		runoff controls (10											total	
		acres reverified), 30											A	DED (ND CC /
		acres of agricultural											Agriculture	DEP/NRCS/
		drainage											Stormwater	SCC/PDA/
		management (H)											Management	PennVEST
													\$10,000 per acre >	
						1							\$1,590,000	

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						Potential		Resources Av	ailable			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.11*	Urban	Runoff Reduction	Planning	Blair County	2022-2025	Coordination/	Reporting	FieldDoc			18 Summer interns	Local University	\$180,000 – per	NRCS/PDA/ DEP
	Stormwater	Performance	Commission,	Developed		training for municipal	platform				for reporting and	or local student	year	
	Management,	Standard – 47(F),	ISC,	areas		staff, FieldDoc batch					verification	attending		
	Non-	13(H) Acres treated	Municipalities	Cambria		upload opportunity,						nearby		
	Regulated (MS4)	Stormwater		County		non-MS4 engagement (what's						university etc.		
	Communities	Treatment		Developed		in it for them?),					7 – Municipal	Municipalities,	\$980,000 per	TBD
		Performance		areas –		difficulty obtaining					Engineers	Planning	year	
		Standard – 3(H)		Chesapeake		past information						Commission,	,	
		acres treated		Bay Portion		(MS4s typically have								
						databases from 2003-					4 – municipal	Planning	\$520,000 per	DEP
		Wet Ponds and		Fulton		present)					planner	Commission,	year	
		Wetlands – 138(B),		County								Municipality,		
		90(C), 75(F) Acres treated		Developed		Implement existing ordinances at local						etc.		
		treated		areas		municipal level							\$5 M overall	DEP
		Advanced Grey		Huntingdon		mameipar level							project budget	Environmental
		Infrastructure –		County		Catalogue existing							project a mager	Stewardship
		2,600 (B) Acres		Developed		BMPs that fit into this								Fund,
		treated		areas		category and newly								Transportation
						built ones								Alternatives Set-
		Bioretention – 5 (B)												Asides Program
		acres treated												
		Vegetated Open												
		Channels – 492 (B)												
		acres treated												
		Infiltration Practices												
		- 2 (B) acres treated												
		Filtering Practices –												
		5 (B) Acres treated												
		, , , , , , , , , , , , , , , , , , , ,												
		Dry Detention Ponds												
		– 172 (B) Acres												
		treated												
		Dry Extended												
		Detention Ponds –												
		39 (B) Acres treated												

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		<u>Green</u> - ac	tion has been com	pleted or is mo	oving forward a	is planned <u>Yellow</u> - ac	tion has encount	ered minor obsta	cles <u>Red</u> -	- action has not	been taken or has er	ncountered a seriou	us barrier	
						Potential		Resources <u>Av</u>	<u>railable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.12*	MS4-related	PRP Plan	Antis	Blair County	2022-2023	Municipal capacity to	Municipal	Municipalities,	Each	Municipal	2 – Municipal	Municipalities,	\$280,000 per	TBD
	Chesapeake	implementation by	Township,	MS4		implement plans	engineer	public works	Muni is	budgets	Engineers	Planning	year	
	Bay Pollutant	end of current	Logan	Municipaliti		(technical, financial)	design/permit,	departments	contribut	(taxes,		Commission,		
	Reduction	permit term	Township,	es			construction		ing	stormwater				
	Plan		Altoona City,			Develop a grant	readiness		percenta	fees, grants)	1 – municipal	Planning	\$130,000 per	DEP
	Implementati	Bioretention – 77	Allegheny			funding source just			ge cost		planner	Commission,	year	
	on	acres treated	Township,			for MS4 communities			to help			Municipality,		
			Duncansville			so they are not			fund			etc.		
		Dry Ponds – 3 acres	Borough, Blair			competing against all			projects,				B:	DEP
		treated	Township,			stakeholders. Need			stormwat				Bioretention	
		Cture Destauration	Hollidaysburg			larger sources of			er fees				\$500,000	DED
		Stream Restoration	Borough, Frankstown			funding.			do exist				Dry Donds	DEP
		- 17,940 LF (part of total stream	Township, ISC,			Land available to							Dry Ponds \$30,000	
		restoration goal)	Planning			implement projects.							\$30,000	
		restoration goal,	Commission,			implement projects.								
			Engineering			Expanded flexibility								
			Consultants			to work outside of								
						designated areas								
4.13	Conservation	Promote new	DCNR,	Blair County	2022 - 2025	Landowner education	Planting plan	Alliance for			4 – FTE Municipal	Planning	\$520,000 per	DEP/DCNR
	Landscaping/T	program and enable	Chesapeake	Developed		and acceptance	assistance	the Bay (in-			Planner	Commission	year	
	urf to	one large tract	Conservancy,	areas				kind)						
	Meadow	landowners'	municipalities			Existing mowing					11 – additional FTE	Chesapeake	\$1,430,000 per	DEP/DCNR/
	Conversion	participation	CBF,	Cambria		ordinances or weed					environmental	Conservancy,	year	SCC/PDA/ NRCS
			Conservation	County		ordinances may be a					technician	CBF, WPC, etc.		
		140 new acres of	District,	Developed		challenge in some								
		Conservation	Planning	areas –		communities							\$2,500 per	DCNR, NFWF,
		Landscaping (B)	Commission,	Chesapeake									acre meadow	USFWS
		50	ISC, Watershed	Bay Portion									→ \$750,000	
		50 new acres of	Organizations	F. Itan									budget for all	
		Conservation		Fulton										
		Landscaping (C)		County Developed										
		60 new acres of		areas										
		Conservation		arcas										
		Landscaping (F)		Huntingdon										
		Landscaping (1)		County										
		50 new acres of		Developed										
		Conservation		areas										
		Landscaping (H)												

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		Green - act	tion has been con	npleted or is mo	ving forward a	ered minor obsta	cles <u>Red</u> -	action has not	been taken or has er	ncountered a seriou	us barrier			
						Potential		Resources <u>Av</u>	<u>ailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.14	Impervious	Identify a flood	Planning	Blair County	2022-2025	Lack of local interest,	Mapping	Planning	Available	Municipal	4 – FTE Municipal	Planning	\$520,000 per	DEP/DCNR
	surface	prone area that	Commission,			property		Commission	budget	PRP	Planner	Commission	year	
	reduction	could be converted	eligible			purchase/donation			to be	Implementa				
	project	to a park or open	municipalities						determin	tion Budget	Design, permit,	Private sector	\$287,300 for	DCNR, FEMA
		space							ed		construction		impervious	BRIC
		5 – acres Impervious											surface	
		Surface Reduction											reduction	
4 - 4	0 1	(B)	51 : 6 :	51.		0 11 0000	-1		44.6	51 : 6 :	4 575 0		4522.222	D50/DD4/500
4.15*	Continue dirt	21 miles overall	Blair County	Blair	Ongoing	Continue D&G Road	Education,	Conservation	\$1.6	Blair County	4 – FTE Clean	Conservation	\$520,000 per	DEP/PDA/ SCC
	and gravel	restored through	Conservation	Countywide		program funding	technical	District,	million	Conservatio	Water Coordinator	District	year	
	road program	past projects and	District			Cambria – increase	assistance,	Center for Dirt		n District	for Conservation			
	for each	future projects (B)				DGLVR education	project	& Gravel Road Studies, SCC	1997	Cambria	District			
	county	21 miles overall	Cambria	Cambria		opportunities by 5%	oversight	Studies, SCC		County			Dirt and Gravel	scc
	Conservation District	restored through	County	Chesapeake		over 5 years		NFWF Grant		County			Roads \$40 per	300
	DISTRICT	past projects and	Conservation	Bay Portion		Over 3 years	Blair County	NEWE GIAIIL	\$1.75	n District			foot→ TBD	
		future projects (C)	District	bay i ortion		Education of	using NFWF		million	II District			1000 7 100	
		rature projects (c)	District			municipalities can be	Grant for		since	Fulton				
		26 miles overall		Fulton		challenging, need	private farm		1997	County				
		restored through	Fulton County	Countywide		more involvement	lane		1337	Conservatio				
		past projects and	Conservation	country wide		from all	improvement			n District				
		future projects (F)	District			municipalities	implementatio		\$2.0					
		i di				ао.ралио	n		million	Huntingdon				
		88 miles overall		Huntingdon		Expand Dirt and			since	County				
		restored through	Huntingdon	Countywide		Gravel Road eligible			1997	Conservatio				
		past projects and	County	,		practices to include				n District				
		future projects (H)	Conservation			farm lanes								
			District											
									\$4.0					
									million					
									since					
									1997					

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						Potential		Resources A	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Priori	ty Initiative	5: Research, Edu	ication, and	Training: E	Blair, Camb	oria, Fulton and H	Huntingdon	County						
5.1A	Incorporate	Successful data	ALLARM, Local	Blair	2022-2023	Data precision,	Data QAQC	ALLARM			Volunteers for	Local	N/A	TBD
	existing water	input/acceptance by	watershed	Countywide		QAQC, opportunity to	and training				Water quality	environmental		
	quality	ALLARM program by	groups, Pa			educate landowners					monitoring	groups		
	monitoring	end of 2021	Foundation of	Cambria		about local stream	Data input	Monitoring						
	data into		Watersheds,	Chesapeake		health and what they		groups			New monitoring	Conservation	\$40,000	ALLARM
	Chesapeake	Work with	BCCD, Altoona	Bay Portion		can do about it					equipment	District		
	Data Explorer/	Foundation of PA	Water				Monitoring	Conservation						
	Chesapeake	Watersheds to	Authority,	Fulton		Explore ways to	support	District (H)				•	\$1,430,000 per	DEP/NRCS/
	Monitoring	establish their data	Ridge and	Countywide		present local data					environmental	Conservancy,	year	DCNR/PDA
	Cooperative	into CMC	Valley Stream			working with Juniata					technician	CBF, WPC, etc.		
			Keepers,	Huntingdon		College							4	
		Work with BCCD and	Stroud,	Countywide							7 – stream	USGS/PAFBC/	\$980,000 per	DEP/DCNR/
		Altoona Water	Clearfield								biologist/environ	District/etc.	year	PAFBC/USGS
		Authority to report	Creek								mental scientist			
		data	Watershed											
		Work with water	Association,											
		and sewer	Juniata College											
		and sewer												
		monitor to include												
		data in the												
		Chesapeake Bay												
		Model and/or CMC												

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						Potential		Resources A	<u>vailable</u>			Resources	<u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
5.1B	Initiate	Location	ALLARM,	Blair	2023-2024	Land access,					Volunteers for	Local	N/A	TBD
	additional	identification,	Keystone	Countywide		expanded volunteer					Water quality	environmental		
	water quality	financial and	Water			need,					monitoring	groups		
	monitoring	volunteer budget	Resources	Cambria		equipment/materials						S. c. a.la.		
	sites that	analysis, and initial	Center, Local	Chesapeake		budget, Consistent					New monitoring	Conservation	\$40,000	ALLARM
	promote long-	landowner	University,	Bay Portion		data collection, QAQC					equipment	District		
	term trend	communication by	Altoona Water	·		continuation					' '			
	evaluation at	end of 2021	Authority	Fulton							11 – additional FTE	Chesapeake	\$1,430,000 per	DEP/NRCS/
	key locations		•	Countywide		Explore ways to					environmental	Conservancy,	year	DCNR/PDA
	,	CAST-21		,		present local data					technician	CBF, WPC, etc.	ŕ	·
		acknowledgement		Huntingdon		working with Juniata								
		of our data		Countywide		College					7 – stream	USGS/PAFBC/	\$980,000 per	DEP/DCNR/
				, specifically							biologist/environ	District/etc.	year	PAFBC/USGS
		Map existing		Fort Run							mental scientist			
		monitoring locations												
		Expand monitoring												
		based on Corridors												
		of Opportunity area												
		monitoring gaps												
		Have DEP Re-assess												
		Spring Run Fulton												
		County												
5.2	Create new	Develop new or	ALLARM,	Blair	Ongoing	Willing volunteers	Social media	County –			4 – FTE Clean	Conservation	\$520,000 per	DEP/PDA/ SCC
	and enhance	reestablish existing	Keystone	Countywide		and leaders to	shares	department to)		Water Coordinator	District	year	
	existing local	watershed	Water			establish and run		be			for Conservation			
	watershed	associations to	Resources	Cambria		watershed		determined			District			
	associations	support with CAP	Center, Local	Chesapeake		organizations to be	Duningt	CAD			4 FTF Class	Dlamaina	¢530,000 man	DED
	for short-term	implementation.	University, Tri-	Bay Portion		successful and	Project	CAP			4 – FTE Clean	Planning	\$520,000 per	DEP
	success and	Watershed organizations can	Run Watershed Association	Fulton		support with implementation	development	Coordinator (HRG)			Water Coordinator	Commission	year	
	long-term					пприетиентации	support	(HKG)			for Planning Commission		\$5000 per	Administrativo
	sustainability	support with outreach,	(Enhance), Little Juniata	Countywide		Enhance the capacity					COMMINISSION		organization to	Administrative budget tied to a
		•	River	Huntingdon		of local watershed							produce	project grant
		engagement, new project identification		Countywide		associations for							produce	application
		and implementation	Association, JK	Countywide		short-term success							materials	application
		and implementation	TU Chapter			and long-term							(hats, shirts,	
			10 Chapter			sustainability							stickers) for	
						Sustamability							members ->	
													\$60,000 per	
													year	
		<u> </u>				<u> </u>							year	

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template

Each county-based local area will use this template to identify:

- 1. Inputs These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
- 2. Process what is each partner able to do where and by when. These are the action items listed under each priority initiative.
- 3. Outputs and outcomes both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
- 4. Implementation challenges any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items though outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description).

GLOSSARY

- **ACT 167 Plan**. The Pennsylvania Stormwater Management Act of 1978, or Act 167, required that each county must prepare and adopt a watershed stormwater management plan for each watershed located in the county as designated by DEP, in consultation with the municipalities located within each watershed.
- Ag E & S Agricultural Erosion and Sedimentation Plan. Agricultural Erosion and Sedimentation plans document best management practices on crop and pasture fields to mitigate erosion and protect soil health. Any landowner that disturbs the soil (including no tillage) more than 5,000 square feet (~ 1/10 acre) must have a written Agricultural Erosion & Sediment Control Plan according to Pennsylvania State law, Chapter 102.
- ALLARM Alliance for Aquatic Resource Monitoring. ALLARM is a program of Dickinson College that enhances local action for the protection and restoration of waterways by empowering communities with scientific knowledge and tools.
- **AMD Acid Mine Drainage.** Outflow of acidic water from metal mines or coal mines.
- BMP Best Management Practice. Best management practices describe a type of water pollution control. Using agricultural BMPs can help to prevent or minimize the effects of nonpoint source pollution.
- **CAST Chesapeake Assessment Scenario Tool.** CAST is a web-based nitrogen, phosphorus and sediment load estimator tool that streamlines environmental planning.
- CBF Chesapeake Bay Foundation. The Chesapeake Bay Foundation is a non-profit organization devoted to the restoration and protection of the Chesapeake Bay in the United States.
- CCD County Conservation District. The County Conservation District serves as the primary local source of assistance to all individuals and organizations who benefit from the county's natural resources that we collectively strive to sustain and improve.
- **CPC County Planning Commission.** The County Planning Commission makes recommendations and decisions to maintain and enhance the high quality of life for all residents, in accordance with the Pennsylvania Municipalities Planning Code, and other laws and regulations of the Commonwealth of Pennsylvania and the prevailing county code.
- **DCNR Department of Conservation and Natural Resources.** DCNR is responsible for maintaining and preserving state parks and forests; providing information on the state's natural resources; and working with communities to benefit local recreation and natural areas.
- **DEP Department of Environmental Protection.** The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water from pollution and to provide for the health and safety of its citizens through a cleaner environment.
- EPA Environmental Protection Agency. The Environmental Protection Agency is a United States federal government agency whose mission is to protect human and environmental health.
- FEMA Federal Emergency Management Agency. FEMA supports citizens and emergency personnel to build, sustain, and improve the nation's capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.
- FieldDoc FieldDoc is a protected, online database that uses geographic information to generate baseline nutrient and sediment loading information and calculate load reductions for planned BMPs.
- GIS Geographic Information System. GIS is a computer system that analyzes and displays geographically referenced information.
- **HUC12 Watershed.** A local sub-watershed level delineation that captures tributary systems draining into the larger Chesapeake Bay watershed.
- MS4 Municipal Separate Storm Sewer System. A separate storm sewer system is a collection of structures, including retention basins, ditches, roadside inlets and underground pipes, designed to gather stormwater from built-up areas and discharge it, without treatment, into local streams and rivers.
- **NFWF National Fish and Wildlife Foundation.** NFWF works towards sustaining, restoring, and enhancing the nation's fish, wildlife, plants and habitats for current and future generations through innovative public and private partnerships, and by investing financial resources and intellectual capital into science-based programs designed to address conservation priorities and achieve measurable outcomes.
- NRCS Natural Resource Conservation Service. NRCS's programs help farmers reduce soil erosion, enhance water supplies, improve water quality, increase wildlife habitat, and reduce damages caused by floods and other natural disasters.
- PACD Pennsylvania Association of Conservation Districts. Provides support for Pennsylvania's conservation districts.
- **PEMA Pennsylvania Emergency Management Agency.** PEMA is tasked with the response to, preparedness for, recovery from, and the mitigation or prevention of disasters and other emergencies.
- PracticeKeeper or PK. PracticeKeeper is a protected, online database Used for reporting conservation plans, BMPs, E&S plans, nutrient management plans, watershed plans, complaints, DEP inspection reports and data exports to DEP.
- QAPP Quality Assurance Project Plan. A QA Project Plan documents the technical and quality aspects of a project, including project management, implementation, and assessment. It specifies responsibilities, monitoring objectives, sampling design, sample collection methods, analytical methods, quality control, data management and data validation activities. It is required by EPA prior to any monitoring or data collection.
- QAQC Quality Assurance Quality Control. QA/QC is the combination of quality assurance, the process or set of processes used to measure and assure the quality of a product, and quality control, the process of ensuring products and services meet consumer expectations.
- **4R Nutrient Stewardship Precision Conservation.** Right fertilizer source at the Right rate, at the Right time and in the Right place for optimal crop management.
- SRBC Susquehanna River Basin Commission. SRBC's mission is to enhance public welfare through comprehensive planning, water supply allocation, and management of the water resources of the Susquehanna River Basin.
- **USGS United States Geological Survey.** USGS provides science about the natural hazards that threaten lives and livelihoods; the water, energy, minerals, and other natural resources we rely on; the health of our ecosystems and environment; and the impacts of climate and land-use change.
- Water Quality (WQ) Credit Offset Pilot. For nitrogen, and potentially other pollutants, BMPs are more effective and cheaper to build in the agricultural landscape than the developed landscape. The goal of this pilot is to further explore the 1-mile radius beyond the MS4 Pollutant Reduction Plan planning area, and larger radii, where ag BMPs can be sited for MS4 credit under certain conditions.
- WIP Watershed Implementation Plan. Watershed Implementation Plans (WIPs) are the roadmap for how the Bay jurisdictions (including Pennsylvania), in partnership with federal and local governments, will achieve the Chesapeake Bay TMDL allocations.