2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
Priority Initiative 1: County Programmatic Initiatives: Blair, Cambria, Fulton, and Huntingdon											
1.1A	Implement County Comprehensive Plan policies and actions	Ensure that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance Protect natural resources, protect wetlands through use of zoning ordinances Promote the inclusion of recreational opportunities counties have to offer, look to build local economies of tourism **-Conserve 3,000 acres of forest (B)** **-Conserve 1,600 acres of forest (C)** **-Conserve 1,500 acres of forest (F)** **-Conserve 5,800 acres 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)**	Planning Commissions, growth boundary municipalities, Southern Alleghenies Bicycle and Pedestrian Plan, ACT 167 Plans, Huntingdon County Heritage Plan, Fulton County Heritage Plan, Convention and Visitors Bureau, Chamber of Commerce, Cambria County Conservation and Recreation Authority, Southern Alleghenies Greenways and Open Space Network Plan, Huntingdon Co. Active Transportation Plan	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	ongoing	Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas Local governments willing to propose ordinances to protect economically and environmentally friendly landscapes	Education, outreach		4 – FTE Clean Water Coordinator for Planning Commission	$520,000 per year $2,000 per acre of forest conserved through easement: Total $23.8M $2,000 per acre of wetland conserved through easement: Total $470K	2024: Blair County projects have been added to the Phase I Storm Water Management Plan submitted to DEP on August 30 for consideration in the Phase II Plan to be developed through 2025 and into 2026 Cambria: No update Fulton County worked on implementing the comprehensive plan by reviewing any incoming projects. Upcoming projects such as FCMC senior living development is an example of a utilization of the plan. The FCIDA and FIDA also work hard on incoming growth to the county. Huntingdon: Implements the County Comprehensive Plan when reviewing projects and issuing letters of support or consistency for grant applications. If a subdivision, land development, draft municipal ordinance or funding application is or is not consistent with the comprehensive plan, an appropriate comment regarding consistency with the County Plan is included in the County Planning Commission's review letter or letter of support. E&S and NPDES planning/permitting comments are included in subdivision and land development review letters. Review letters are routinely emailed to the Conservation District. The County Active Transportation Plan (ATP) was adopted 9/12/2023 (stand-alone plan) and 1/16/2024 (part of the County's Comprehensive Plan). The ATP identifies 10 priorities including completion of three sections of the Main Line Canal Greenway Trail / September 11th National Memorial Trail and development of lifeway corridors to improve community connectivity for residents using non-motorized means of transportation. An open house is anticipated this fall in the Alexandria area to discuss extension of the trail from the current Alfarata Trailhead to the Alexandria Borough/Porter Township line in the shared community park. It is anticipated this portion of trail may be completed by 9/11/2026. We will coordinate BMPs with the Conservation District when trail projects are in design. As of August 2024, Mount Union Borough has drafted a Borough Comprehensive Plan and Subdivision and Land Development Ordinance (SALDO.; Borough adoption of both could take place by end of 2024. During 2024, a Three Springs Borough committee has been reviewing and revising the County's Model SALDO for the Borough; and Saltillo Borough has indicated interest in reviewing the County's Model SALDO. None of these three boroughs has previously adopted a SALDO. Dublin Township is revising the County's Model SALDO to update their 1977 Ordinance. The East Broad Top Corridor Committee, including representatives from Clay Township, Saltillo Borough and Three Springs Borough, has been regularly meeting for over a year to discuss potential economic and community growth opportunities and challenges related to the anticipated reopening of the East Broad Top Railroad rail line from Rockhill Borough to Saltillo Borough. A similar group, EBT Mountain Heritage Committee, was formed by Todd and Wood Townships in July 2024 in anticipation of the rail line's reopening from Saltillo to Robertsdale in Wood Township. 2023: Huntingdon: An Active Transportation Plan was drafted in August 2023 with anticipated adoption in September. The Active Transportation Plan identifies 10 priorities including completion of sections of specific trails and development of lifeway corridors that improve community connectivity Cambria: Efforts continue to remove blighted properties. A County Land Bank has been created and public education events are planned for this fall. 2022: Blair County is engaging in a minor update on the Comprehensive Plan in 2023. Will not change major focus points, but will change some action items under the major focus points. Will overlap Comprehensive Plan with other existing plans. Cambria County Conservation District has had meetings with Planning and Redevelopment Authority about partnership opportunities to remove blighted properties. Additionally, the Cambria County Conservation, County Planning, and Recreation Authority. CCCD identified 1 location that requires some streambank stabilization and have included this potential project as a deliverable in a growing greener application. Fulton County: Fulton County implements the comprehensive plan when reviewing and approving projects that come into the county. If a project does not meet the requirements of the comprehensive plan it will not be approved.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.1B	Advance local comprehensive planning efforts Implement existing Source Water Protection Plan	An annual review of the document and setting 1 goal, Partner with NRCS regarding source water protection and the 2018 Farm Bill Work with identified partners to support implementation of source water protection plans mirrored with CAP goals.	Interested Municipalities and Townships, NRCS Altoona Water Authority, McConnellsburg Borough, Huntingdon Borough Fulton County Heritage Plan	Multi Township and Municipality	2022-2025	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach.			4 – FTE Clean Water Coordinator for Planning Commission	$520,000 per year $ TBD for new Source Water Protection Plans	**2024:** Blair: Source water planning added to Hazard Mitigation Plan as well as Phase I Storm Water Plan. We continue to implement our portion of Alleghenies Ahead and are working with several municipalities on local comprehensive plans. Blair continues to participate in Juniata Forward Watershed Plan Update with WPC and surrounding Counties. Cambria: No update. Fulton: With the utilization of the Alleghenies Ahead Housing plan, the county hopes to grow in the availability of affordable housing Huntingdon: Huntingdon County continues to participate in the Juniata Forward Watershed Plan Update with WPC and surrounding Counties. **2023:** Huntingdon: No update. Fulton: No update. Blair: Implementing their portion of Alleghenies Ahead. **2022:** In the fall of 2022 review documents, meet with interested municipalities and set a goal for
1.1C*	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Utilize Chesapeake Conservancy data set to identify buffer gap project opportunities Utilize Public Fishing Easement agreements to conserve buffers Conserve Riparian buffers where feasible through zoning ordinances	Municipalities, Conservation District, CBF, Pheasants Forever, National Trout Unlimited, Prince Gallitzin State Park, WPC, PA Foundation of Watersheds, Watershed Organizations, Fulton County ACT 167 Plan, Fulton County Heritage Plan, DCNR	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	ongoing	Adopting ordinances, may require a pilot project in a willing municipality to demonstrate success. Lack of technical assistance to support implementation goals for forest buffers. Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.	Can apply for Landscape Scale Restoration (LSR) Grant Program	Utilize PFBC Incentive Program to pay landowners for fishing access	4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District Buffer Funding Incentive Program	$520,000 per year $520,000 per year Expand Buffer Bonus Program to provide $10,000 per acre of buffer installed to include 5-year maintenance contract $2.05 M total	**2024:** Blair County implemented a 1.5 acre buffer that was funded through a NFWF grant and private funding. Implemented 3.56 acres of buffers through the Blair County Riparian Buffer Incentive Program. Cambria: The watershed specialist has continued to work with the Cresson Sportsman's Club and American Rivers to remove a dam and create a buffer and wetland area. Fulton County utilized 2024 CAP funds to assist in the completion of stream restoration projects on three properties along the ag-impaired section of Big Cove Creek. Streambank fencing and riparian buffers were implemented at all three locations. Assessment of the upper portion of Big Cove Creek is still underway and the Watershed Assessment Plan should be completed by the end of 2024. Fulton County will be submitting two potential stream restoration projects for 2025 funding. District received GGG in 2024 to design and permit stream restoration projects at two additional sites along the ag-impaired section of Big Cove Creek. The Glazier and Sauders stream restroation projects received Growing Greener Grants to fund the design and permitting for these projects, which is on track to be completed prior to the grant closing in 2026. Huntingdon: Chesapeake Conservancy completed buffer work at the Will Yoder Property with an approximate size of 3 acres in 2024. Juniata College conducted maintenance on the Mower Buffer that was installed in 2021 in 2024. WPC and CC conducted maintenance on the Black buffer that was completed in 2019 that received damage from livestock that escaped exclusion fencing. WPC has been awarded approximately $1 million dollars through NFWF INSR for their Accelerating Riparian Forests and Community Forestry Program in Central Pennsylvania. The project will fund 75 acres of buffer plantings in the Juniata, Potomac, and West Branch Watersheds across several counties, including Blair, Fulton, Huntingdon, and Cambria Counties. The funding also includes hiring full time staff to coordinate a volunteer maintenance program

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.2	Implement County Hazard Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality (B) (F) (H) Retrofit existing flood prone areas with new culverts, ditches, etc. (B) (F) (H) Report and verify projects that are implemented for Floodplain management, but can address nutrients and sediment (B) (F) (H) Identify all public lands with flood hazards, Create a land bank (B) Look to develop and adopt ordinance to protect floodplain management (F)	County Planning Commission, municipalities, MPO's Unified Planning Work Program, Southern Alleghenies Comprehensive Plan, County Redevelopment Authorities	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2023-2025	Funding, land for BMPs, funding for engineering feasibility studies Enforcement and compliance of stormwater ordinances Current Requirements by PEMA/FEMA are tough to receive funding – funding available only if hazard is identified by FEMA/PEMA and needs to be extremely project specific.			4 – FTE Clean Water Coordinator for Planning Commission	$520,000 per year $2,000,000 hazard mitigation plan	**2024:** HRG has reviewed Blair County's HMP to identify low hanging fruit for project implementation. Site visits will occur in the Fall of 2024 for project implementation in 2026**.** The newest update to the hazard mitigation plan is on track for adoption in early 2025. Several action items in the CAP have been added as action items in the updated version of the HMP. Cambria: No Update **Fulton: In the process of finishing up and updating the Hazard Mitigation Plan with the intent of adopting in early 2025.** Huntingdon: Multi-Jurisdictional Hazard Mitigation Plan was FEMA approved pending adoption on 2/5/2021. County Commissioners adopted the Plan on 2/16/2021; all municipalities had adopted by 10/29/2021. Plans must be updated every five years. Receipt of a one-time only FEMA grant after completion of the current Plan means the Plan must be updated and FEMA-approved pending adoption by 8/5/2025. The hazard mitigation planning process kicked off 6/24/2024. It is anticipated all municipalities will participate in the process so they will all be eligible for Federal disaster funding. HRG has reviewed Huntingdon County's HMP to identify low hanging fruit for project implementation. Site visits occurred in June of 2024 where two projects are under concept plan design for landowner approval. Implementation if funded will be in 2025 or 2026. **2023:** Huntingdon: The County Hazard Mitigation Plan was completed in February 2021. As of October 2021, all 48 county municipalities had adopted the plan. Blair: Began 2025 plan update in June with next meeting scheduled for September. Current plan is focused on dry hydrants, flooding, and broadband. It also has the development of a countywide stormwater management plan with a focus on flooding.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.3*	Update/draft Act 167 Plans	Look to modify existing stormwater ordinances and ACT 167 Plans where feasible or create new model stormwater ordinance or ACT 167 plans that would require/incentivize additional protections for streams Encourage municipal officials to enact stormwater management ordinances consistent with ACT 167 and ACT 102 (F) (H) (C) Implement Fulton County Act 167 Plan	Municipal engineers, Municipalities, Southern Allegheny Comprehensive Plan, Juniata River Watershed Act 167, Bobs Creek and Dunning Creek, Beaverdam Branch 167	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – discuss interest to pursue and funding opportunities	Should local involvement exist, funding for Plan update Additional stormwater engineering resources at county level (C)	Institutional knowledge		Act 167 Plan Development 4 – FTE Clean Water Coordinator for Planning Commission	$350,000 per county à $1.4 Million total $520,000 per year	**2024:** Blair: Phase I SWMP complete and submitted to DEP for review and approval to move into Phase II. Several projects on the CAP are also included as potentials for further consideration in the Phase II Plan Cambria: The County has an existing plan that is out of date. The plan was written and implemented by the different watersheds and varies from watershed to watershed. Future effort in 2025 is planned to discuss a new Act 167 plan with County Planning and the Commissioners. Fulton: Fulton County has an Act 167 plan that is likely out of date. Future effort in 2025 is planned to discuss a new Act 167 plan with County Commissioners. Huntingdon: 5 municipalities have adopted stormwater ordinances. In 2001, the County Planning Commission's Intergovernmental Action Plan included a model stormwater ordinance. The model ordinance is available for municipal consideration. Coordination with the Conservation District is anticipated to update the model ordinance and possibly develop stormwater guidelines that can be utilized in the absence of an adopted ordinance. **2023:** Blair: Applied for Phase I countywide storm water management plan funding from DEP. **2022:** The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Huntingdon, Blair and Cambria County currently has no or partial Act 167 plan(s), but with new funding plans to explore opportunities to develop an Act 167 Plan.
1.4	Utilize Existing TMDLs to leverage the need for water quality improvements	Leverage TMDLs to help educate municipalities on the need for water quality improvements and potential stormwater ordinance updates Explore the potential feasibility of developing 319 WIPs or Alternative Restoration Plans for TMDL watersheds currently without plans 2023 – municipal educational campaign	Beaverdam - Conservation District and City of Altoona (B) Clearfield Creek Watershed Association (C) Little Trough – Conservation District, NRCS (H)	Beaverdam Branch (B) Cambria County: Clearfield Creek (C) Little Trough Creek – AG, tough to work with landowners	2023	Financial and Technical assistance to develop 319 or ARP plans for TMDL watersheds Willingness of local volunteers to support in implementation of 319 plans. Lack of existing watershed organizations			3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District	$390,000 per year $390,000 per year $450,000 to develop 3 watershed plans	**2024:** The Intergovernmental Stormwater Committee is collaboratively working with LandStudies on the Beaverdam Branch Floodplain Restoration Project which is designed and permit applications have been submitted to Army Corp and DEP. Project is slated for construction in spring/summer 2025. Cambria: No Update. Fulton: Upper Big Cove Creek Watershed Assessment Plan will be completed by the end of 2024. District is working with Chesapeake Bay Foundation staff to assist the District with watershed modeling and grant writing for BMP implementation. Huntingdon: A new project was identified in 2024 on Little Trough Creek on the Larry Eshelmann property that will propose fencing, off stream waters, stream crossings and an animal walkway. **2023:** Blair: The preliminary assessment of the watershed restoration plan for Beaverdam Branch is completed. Army Corps of Engineers and PADEP is meeting with partners and engineers to discuss next steps for design and permitting. The plan is slated for implementation in the next two years. Cambria: N/A

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.5	Juniata River Watershed Management Plan Look to identify a rapid delisting watershed as part of the plan.	WPC applied for DCNR C2P2 grant to update the Juniata River Watershed Management Plan. CAP can help leverage funding for the Juniata River Watershed Management Plan. Work with the Chesapeake Conservancy to rapidly delist a watershed within the Juniata River Watershed Plan.	Western Pennsylvania Conservancy, Chesapeake Conservancy	Juniata River Watershed (Blair, Fulton, Huntingdon, Juniata, Mifflin, Perry)	2021 – Conservancy Exploring options 2022 – outreach 2023 implementation	Performance Target continued: Our goal is basically to update the existing plan with work that has been done since the original plan, do some more in-depth GIS analysis, and get public and municipal input into what they see are the issues in the watershed. I think the GIS analysis will be a big part of the process. We're planning on using the new 1-meter resolution data set, incorporating some of the buffer gap analysis work from Chesapeake Conservancy, etc.		Huntingdon County AG BMPs $442,305	3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District	$390,000 per year $390,000 per year WPC applied for $37,785 with $37,286 match Rapid Delisting Approach Budget $2,000,000	**2024:** The draft of Juniata Forward: Building on 25 Years of Conservation, an update to the Juniata Watershed Management Plan, is complete and will be available for public comment starting October 1, 2024 and lasting for 30 days. Each municipality will be emailed with a link to the plan to provide comments. WPC will also put out a press release and social media posts to garner comments. Comments will be detailed in the final version of the plan. The final plan will be completed by the end of 2024. **2023:** As part of the DCNR grant, the Western Pennsylvania Conservancy has been working with partners to develop the Management Plan. In 2023, a partner survey was sent out and three watershed-wide public meetings were held for public input. **2022**- Juniata Watershed Management Plan update is a DCNR grant that will cover the entire Juniata River watershed. The planning process will include partners from the county conservation districts in the watershed, Juniata College, St. Francis University, Chesapeake Conservancy, HRG, Foundation for PA Watersheds, Little Juniata River Association, and county planning commissions. Project will start with a kick-off meeting late in October of 2022.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.6*	Implement County Farmland Preservation Program with farmland preservation program incentives enhancement Preservation of agriculture lands, boosting local agriculture economy, Purchase of Agricultural Easements (PACE)	Total preservation Blair County 56 farms and 8,400 acres –Goal 4 farms per year 16 total. 12-15 are on a backlog list **-Conserve 1,500 acres of farmland** Total preservation Cambria County 19 farms and 3,296 acres. Goal is to add 1-2 farmers each year, (8) total– about 150 acres per farm. **-Conserve 690 acres of farmland** Total preservation Fulton County 2 farms and 240 acres. Goal is to add 1-2 farms each year, (8) total farms (20 farms in waiting) **-Conserve 1,500 acres of farmland** Total preservation Huntingdon County 11 farms and 1,392 acres – Currently 1 farm every 2-3 years, 2 Farms total, could do 2 farms per year with additional funding (8) total **-Conserve 2,000 acres of farmland**	Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Huntingdon County Heritage Plan, Fulton County Heritage Plan, SCC Ombudsman, Southern Alleghenies RC&D Council	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022-2023 – explore incentive opportunities Ongoing	Funding to support additional BMP implementation. Technical assistance to coordinate preservation plans with funding and technical assistance. Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide. Sharing NRCS data is challenging, must comply with 1619 form. Lack of funding to preserve farms each year. Many farmers stop applying because of limited funding and competitive process. Additional staff time would be needed to significantly increase the number of farms per year and continue to inspect the farms annually.	Priority recommendations, easement revision recommendations, supplemental BMP funding research		4 – FTE Clean Water Coordinator for CD 4 – administrative assistant 21 – Ag planners to assist with technical assistance 1 – FTE for Ag Land Preservation Program Assistance	$520,000 per year $300,000 per year $2,730,000 per year $130,000 per year Assume $250K per farm: $4M (B) Assume $250K per farm: $2M(C) Assume $250K per farm: $2M (F) Assume $250K per farm: $2M (H)	**2024:** Blair: Farm 61 closed totaling 124.52 acres. Farm 62 to be approved by state board in October and to close in early 2025 totaling 168.58 acres. Two additional farms, 63 and 64 to be approved in 2024 and close in 2025 totaling 243 acres. Cambria: No farms preserved in 2024. Fulton: The County's Chief Clerk administers the program for Fulton County. County accepted applications in the spring and the District assisted with the ranking of the applications that were received. Huntingdon: One farm that was started in 2023 has been secured in 2024 with a total acreage of 226 acres. **2023:** Fulton: The Conservation District turned the program back over to the county to administer but there is currently no active board due to lack of member participation. Only 2 farms in the county are preserved. Funding is limited for the program with no local match, and no farms were preserved in 2023. Cambria: 2 farms preserved with 279.78 acres. Huntingdon: Looking to preserve one farm in the 2023 program year. Blair: Will close on two farms this year totaling 205.11 acres. This will bring the number of farms preserved in the county to 60. Farms 61 and 62 were approved in 2023 but will not close until 2024. **2022**: Blair County: Preserved 2 farms in 2021 utilizing state funds. Will use federal funds to preserve a farm in 2022, and state funds to preserve an additional farm. Approximately 9,000 acres have been preserved to date. Average around 12 applications per year, more funding would

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.7*	Establish funding/staff support to assist the Agricultural community 496 farms in Blair County (2017 Census) 557 farms in Cambria County (2017 Census) 545 farms in Fulton County (2017 Census) 714 farms in Huntingdon County (2017 Census)	Approximately 75 farms have their plans in Blair County, goal is to complete 200 by 2025. (B) Approximately 5 farms have their plans reported in Cambria County, goal is to complete/report 100 by 2025. (C) Approximately 100 farms have their plans in Fulton County, goal is to complete 200 by 2025. Preparing to enter phase 2 of inspections. (F) Approximately 100 farms have their plans in Huntingdon County, goal is to complete 200 by 2025. (H)	Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Private Ag Consultants	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022-2025	Limited compliance activities by DEP. Lack of Technical assistance to support the farming community. Private sector Ag plans are not required to be shared with District staff. All counties will work with ACT 38, Preserved farms and organic farms to report AG E&S and NRCS Conservation Plans. These operations are required to have them, but no requirement to report the plans. It is recommended state agencies make changes to ACT 38 and Persevered Farm programs to require PracticeKeeper reporting.	38 Inspections performed per year (B) 75 Inspections performed per year, NRCS 20 plans per year (F) 12 Inspections performed per year (H) - Could do 50 inspections per year with additional funding Field verification, troubleshooting, site visits and plan review		21– additional Ag Planners to provide TA and ag planning 11 – FTE Design, Engineers, permits 11 – FTE Construction Inspector 4 – FTE Clean Water Coordinator for CD 0.5 FTE – Bay Technician to expand this position to a full-time position 4 – administrative assistant	$2,730,000 per year $1,540,000 per year $1,155,000 per year $520,000 per year $65,000 per year $300,000 per year	**2024:** Blair: Completed one manure storage design utilizing GG Grant and three additional designs are in process. Twelve farm lanes repaired/stabilized/crowned to reduce sediment erosion. The total linear feet of farm lanes repaired in 2023-2024 is 10,460 L.F. 38 farm inspections per year. Blair has a staff person to write MMP/Ag E&S plans when producers request assistance. Blair is to receive over 1.6 million Dollars in ACAP funding. To date, Blair ha allocated over 1.15 million dollars to projects. Projects include a Cover Crop incentive program, Waterway project, 2 grazing projects, 2 manure stacking sheds, 2 manure pits and a Silage Leachate system. Cambria: 35 plans have been completed by CCCD or reported by the District. Fulton: Two projects were approved to receive technical assistance through DEP's Technical Assistance Program. Larson Design Group will be providing survey and engineering services for two ag operations in the County. The District will receive additional funds through the ACAP program in the fall of 2024 to complete more ag BMP projects. Huntingdon: **HCCD received a Growing Greener application for $376,346 for the Standing Stone Sediment reduction project which aims to implement stream restoration for the project site. WPC also received a RCPP and Growing Greener Grant along side with** **HCCD has been active at contracting and implementing ACAP projects since its inception. Below is a list of projects funded by ACAP and other sources.** **Morningstar Farm: Received a $500,000 ACAP contract for a new liquid manure storage facility with manure push offs, high and low flow silage leachate systems, vegetated treatment areas, and constructed access roads to limit disturbance from machinery. An additional Growing Greening grant was submitted to breach the funding gap in the project to implement it.** **The Tyler Snider Farm received $500,000 for a roofed Heavy Use area and Manure storage facility on their operation.** **Speerette Farms received $40,400 for two Heavy Use areas, Waste Storage Facilities, a manure transfer system, and a trench silo. Partners include the Juniata Conservation District and NRCS.**

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
											The King Brooke Jacob Sheep Farm received $120,000 to implement a new grazing system with new streambank fencing, off stream watering facilities and buffers. Pogue Angus completed an ACAP project in 2024 for $21,607 for streambank fencing and cropland conversion and watering system in the Aughwick Creek Watershed. Separate Piece Farms completed an ACAP project in 2024 for $21,519 for a new watering system and a drilled well. Warner Family Farms is currently under construction for a $27,800 project that includes roof runoff structures, cropland conversions to pastures, and streambank fencing on Smith Run. Cornelius Farms is currently being designed by Larson Design Group for a $40,000 project utilizing stormwater controls, underground outlets, french drains, overhauling an existing diversion, and a new gravity fed spring development from an existing springhouse. The Seiler Run Farm has been awarded $41,598 to install animal trails and walkways and replacing existing cross pipes. The Michael Kelly project has $17,000 awarded for new interior fence to create a more intensive grazing system. This project is a continuing phase from previous years. The Dysard farm received $210,000 in ACAP funding and will also be submitted as a 2025 BG project for a new roofed Heavy Use Area and Roofed Stacking shed. HCCD received $888,000 from a NFWF grant for roofed heavy use areas on the Metz and Kyper farms. Pennsylvania's Agricultural Conservation Assistance Program (ACAP) has just been approved for indefinite funding after the initial 3-year pilot ends in 2026. The new yearly budget will be $35 million to support Ag project implementation and technical assistance needs.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.8A*	Continue to address and support existing Acid Mine Drainage (AMD) treatment systems and streams impaired by AMD	Continue to provide funding to both active and passive treatment systems that are reducing the impacts of AMD impairments. If funding recedes water quality could degrade. (B) (C) (H)	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS, Stream Restoration INC. Office of Surface Mining,	Shaw Run – Blair County Glen White Run – Blair County Clearfield Creek, West Branch Susquehanna – Cambria County Miller Run – Huntingdon, in stream dosing Shoups Run – Huntingdon (delisted area) still needs maintenance Hartman Run – Huntingdon		Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems. Lack of technical assistance to support restoration efforts	Coordination of restoration Monitoring		3 – FTE Clean Water Coordinator for CD Maintenance on AMD site locations (B) Monitoring on treated AMD Streams (B) Maintenance on AMD site locations (C) Monitoring on treated AMD Streams (C) Maintenance on AMD site locations (H) Monitoring on treated AMD Streams (H)	$390,000 per year $75,000 per year $25,000 per year $75,000 per year $25,000 per year $75,000 per year $25,000 per year	**2024:** Blair: Altoona Water Authority is working towards remediation efforts of AMD affected sites/streams. HRG has investigated the watershed plan written for Sugar Run's AMD impacts and has been in conversation with the City of Altoona Water Authority and PA Game Commission for future BMP implementation or maintenance on existing facilities. St. Francis is spearheading an effort to get updated water quality reports for the watershed in the Fall of 2024 through 2025. Cambria: All right of way easements have been secured for the Victor 10 project and is scheduled to go out to bid and contracted in the Spring of 2025. See 2023 below for additional details. Fulton: No Update. Huntingdon- Waiting to hear about a 319 Grant that was written for Miller Run (see 2023 for details) **2023:** Huntingdon: Applied for a 319 grant in May 2023 to address the needs associated with Miller Run. The grant asked for funding to rehabilitate two passive mine treatment facilities. WPCAMR emergency response funding was secured for limestone dosing for Miller Run. Cambria: Received an OSM grant from WPCAMR to match SRBC consumptive use grant for Victor 10 Discharge. Clearfield Creek WA rehabbed the vertical flow ponds on the Klondike 1&2 treatment systems, completed a porosity test on the vertical flow ponds at the Gibson-Halstok treatment system and are working on design and permitting for the Sand Springs treatment site. **2022**: Pennsylvania is expected to receive $297.9 million in 2022 to assist in AMD restoration of which a significant portion will go to maintaining existing systems with proper operation and maintenance. We will continue to work with PADEP and local partners to ensure these existing remediation sites stay operational. Blair County: North Slope AMD Treatment System (20 years old), needs repaired. Is a top priority
1.8B*	Identify new funding to support the implementation of Acid Mine Drainage treatment systems	Opportunities still exist to address AMD runoff into local streams. New passive and active treatment systems are needed to support water quality improvements. Work with DEP and other identified partners to find funding to support the implementation of new treatment systems Geographic Location (continued): Sugar Run– Needs AMD system, Kittanning Run – Water Authority Property, Bakerton is currently designed for use but is not being used by active mine site, Sankerton needs additional help. (B)	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS	Dudley discharge, Hartman Run (H) Pantee Run – AMD impaired (needs watershed plan), Clearfield Creek, West Branch of Susq. could use additional work (C)	2022-2025	Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems. Lack of technical assistance to support restoration efforts Landowner in Hartman Run would need to paid for land in order to install systems		PADEP BAMR grant program for AMD/AML	3 – FTE Clean Water Coordinator for CD Coordination of restoration	$390,000 per year $5,000,000 Total for restoration to Kittanning Run and Sugar Run (B) $10,000,000 for Clearfield Creek, West Branch of Susquehanna and Pantee Run (C) $10,000,000 for Dudley Discharge (H) $300,000 for Hartman Run (H)	**2024:** Blair: No update. Cambria: See 1.8A above. Fulton: No Update. Huntingdon: Waiting to hear about a 319 Grant that was written for Miller Run (see 2023 for details) **2023:** Huntingdon County has applied for 319 funding to repair two AMD treatment systems on Miller Run in State Game lands 67. **2022**: Blair County: Kittanning Run Watershed needs AMD treatment (reforestation analysis is needed from BAMR). One main discharge still needs treated, need to determine appropriate project for the location. Cambria County: Working on one system with PADEP to capture discharge and pipe water into an existing system. Half of the piping system is paid from an SRBC Consumptive Use Grant. CCCD is working with the Western Pa Coalition for AMD to apply to OSM for remaining funding (West Branch Susquehanna). Clearfield Creek Watershed Association has potential project opportunities to implement projects. Challenge is getting landowner on board with the project.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.9A	Partner with Penn State Altoona, Mount Aloysius (B), Juniata College (H) and Saint Francis University © to support implementation of the CAP.	Juniata College Tree Advisory Committee includes multidisciplinary team of students and faculty, could help to administer other BMPS Saint Francis University Penn State Altoona Mount Aloysius Develop a program with university students to support PracticeKeeper reporting for summer of 2022.	Juniata College, Saint Francis University, Penn State Altoona, Mount Aloysius	319 Priority Watershed Riparian properties Preserved farms Priority Corridor Watersheds	2022-2025	Continued undergraduate/graduate engagement as students graduate through program, implementation funding Lack of technical assistance professionals to mentor students and develop workforce development. Lack of competitive paying job opportunities that ensure long term sustainable for recently graduated students	Outreach boots on the ground		18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)	$180,000 per year	**2024:** Blair: HRG met with St. Francis University to ask for assistance with a water quality monitoring program in the Sugar Run Watershed, which is an AMD impacted stream. The University has agreed to assist with water quality sampling and design of BMPs. Huntingdon: Penn State Sustainability Communities Collaborative (Main Campus) requested specific municipal stormwater projects they could work on in Huntingdon County during the 2024/2025 school year. A list of several potential projects was provided for consideration. (Information about the program is available at https://sustainability.psu.edu/programs/scc/) **2023**: HRG met with Penn State Altoona, Mt, Aloysius, and St. Francis to talk about current water quality programs and efforts. These meetings resulted in university staff understanding and developing ideas for curriculum integration into current CAP efforts. Long term goals will be water quality monitoring, volunteer tree planting opportunities, and engaging students with water quality improvement projects as part of classes. Cambria: Clearfield Creek WA partners with SFU to install weirs and perform water sampling at some AMD sites. Also partnered with Hedin Environmental for a rare-earth element research project at the Gibson-Halstok site. Huntingdon: Continuing to work with Juniata College for riparian maintenance and monitoring. A Coldwater Heritage Grant was awarded for Shaver's Creek opening up a partnership with PSU. Penn State Sustainability Communities Collaborative (Main Campus) requested specific municipal stormwater projects they could work on in Huntingdon County during the 2024/2025 school year. A list of several potential projects was provided for consideration. (Information about the program is available at https://sustainability.psu.edu/programs/scc/) **2022:** Blair County: CAP Intern is from University Pitt Johnstown. Has worked hard to enter approximately 100 plans and practices in PracticeKeeper.
1.9B	Quantify Land/BMPs Managed by Penn State Altoona, Juniata College and Saint Francis University	Work with Penn State Altoona, Mount Aloysius, Juniata College and Saint Francis University to ensure that water quality improvements that they manage are captured in CAST/FieldDoc	Penn State Altoona (B), Mount Aloysius, Juniata College (H) and Saint Francis University (C)	Penn State Altoona owned Lands in Blair County Mount Aloysius owned lands in Blair County Juniata College owned Lands in Huntingdon County Saint Francis University owned Lands in Cambria County	2022	Getting maximum credits for experimental BMPs	Institutional knowledge		3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District 18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)	$390,000 per year $390,000 per year $180,000 per year	**2024:** No progress to date. **2023:** In 2023 HRG met with Penn State Altoona, Mt, Aloysius, and St. Francis to discuss on campus water quality work. Penn State Altoona BMPs are encompassed and reported in MS4 reporting. This discussion led to HRG providing a support letter to Penn State for a NFWF grant application to evaluate long term stormwater on the Altoona campus and develop a BMP implementation plan that address long term stormwater challenges. **2022**: No progress to date.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.10A	Create a regional water quality communication plan, leveraging existing documents and covering topics including Southern Allegheny Comprehensive Plan, Hazard Mitigation Plans, Cold Water Conservation Plans, 319 Watershed Plans, Greenways and Open Space Plans	Develop regional messages and audience; execute plan and distribute messaging through staff and partners	Multi-partner, Southern Allegheny Planning Commission as lead entity building upon environmental aspects?	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – plan development 2023 – plan implementation	Simplifying the resources that are available, focusing on farmers and other landowners			Website development and continued maintenance 4 – FTE Marketing and Outreach Coordinator 4 – FTE Clean Water Coordinator for Planning Commission	$60,000 per year $520,000 per year $520,000 per year	**2024:** Blair: Continued with direct mailings regarding all Ag funding available through the District. Advertised opportunities on local radio stations and posted via social media. Blair Planning can support this action item utilizing their new outreach Cambria: CCCD is hosting their 2024 Legislative Tour on September 12th, 2024 to highlight the success of the Chest Creek Streambank stabilization projects. Additionally, the Glendale Tour was hosted in the Fall of 2023. Fulton: Fall Conservation Project Tour to be held in September for partnering agencies and organizations. Tour will include visits to recently completed stream restoration project, two DGLVR projects, and the District's cover crop demonstration plots. District will also highlight proposed water quality BMPs to be installed on the office campus as part of the Tall Timbers Demonstration Project that was funded by CAP. Huntingdon: No Update. **2023:** In 2023 HRG supported this goal by creating several outreach documents that were distributed by the County Farm Bureau news letters. These outreach documents provided an update on CAP progress and the work that had been achieved through voluntary farm conservation efforts. Huntingdon: A kickoff meeting and newspaper articles celebrated the Coldwater Heritage Plan. Cambria: County Commissioners held a press conference on Act 152 concerning blight. A legislative tour is planned to highlight shoreline stabilization at Glendale Lake. Blair: Newspaper articles were circulated advertising the new ACAP program. **2022**: In May HRG discussed with the counties a WQ Communication Plan. All counties elected a

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
1.10B	Agricultural Communication Strategy	Develop a plan to complete one on one farm visits outside the regulatory framework. Develop a communication plan to engage integrators. Partner with pesticide meetings and other AG meetings to provide information. Utilize Farm Bureau Newsletter for announcements	CD, County Farm Bureau, Integrators, Ag Land Preservation, PSU Extension, NRCS, Ombudsman	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2025	One on one farm outreach is the best way to communicate with farmers in addition to reporting practices. Funding to support the technical assistance required to complete one on one farm outreach Outreach to integrators is a challenge due to the number of integrators and multiple country boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages. Districts can be viewed as regulatory agencies can be tough for some farmers to be willing to work with the District			21 – additional Ag Planners to provide TA and ag planning 4 – FTE Marketing and Outreach Coordinator 4 – FTE Clean Water Coordinator for CD	$2,730,000 per year $520,000 per year $520,000 per year See 1.10A for website costs. Costs for meeting attendance and administration is covered through other funding requests.	**2024:** 2024: Lancaster Farmland Trust (LFT) completed 42 site visits in Blair County. All the farm visits scheduled for the Southern Alleghenies were shifted to Blair County in 2024 and 9 farms were identified with significant need for BMPs. **2023:** Lancaster Farmland Trust completed 20 visits that were targeted at CAP goal implementation in specific areas of each county. The Foundation for Pennsylvania Watersheds received a Growing Greener grant titled 12-County Investment to Catalyze Agricultural Project Readiness that will support additional on farm outreach. **2022**: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In 2022 28 visits are scoped. The Foundation for Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County Investment to Catalyze Agricultural Project Readiness that would support rapid scaling up of farm visits for all counties. Scaling up of farm visits would allow for additional outreach to occur. Huntingdon County: The Chesapeake Conservancy is conducting outreach in the Rapid Delisting Watershed in Huntingdon County. Additionally, the Conservancy applied for an RCPP application to increase technical assistance and outreach across the county. Blair County: is exploring different communications methods (radio communication, social media) to outreach about agricultural initiatives.
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 Municipalities	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)	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $130,000 per year	**2024:** WQ Credit concept included in the Phase I SWMP submitted to DEP on August 30, 2024. Concept can be explored further in the Phase II Plan. **2023**: No Progress to date. **2022**: No progress to date.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
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.			4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District	$520,000 per year $520,000 per year	**2024:** Blair County has funded multiple projects in HQ watersheds with both NFWF funds (farm lanes) and ACAP projects. Plum Creek (a portion of which is HQ) was targeted for farm visits by LFT in 2024. The work LFT has conducted for farmer outreach for BMP scoping has been in the Plum Creek Watershed which has sections listed as HQ-CWF. The outreach on these farms are in the headwaters of Plum Creek which is listed as an impaired WWF. Implemented BMPs in the headwaters will reduce pollutants reaching the HQ-CWF section of the watershed. Cambria: No Update. LFT farm visits in 2024 shifted to Blair. Fulton: District will submit a stream habitat improvement project located in a HQ-CWF watershed for 2025 CAP funds. A few significant ag BMP projects funded by EQIP and ACAP are occurring in HQ-EV watersheds. Potential ACAP projects located in HQ-EV watersheds receive additional points in the project ranking process. Huntingdon: HCCD received a Growing Greener application for $376,346 for the Standing Stone Sediment reduction project which aims to implement stream restoration for the project site. HCCD received $888,000 from a NFWF grant for roofed heavy use areas on the Metz and Kyper farms which are in High Quality Watersheds. **2023:** Lancaster Farmland Trust targeted outreach visits in several counties in high quality watersheds in order to provide outreach and discuss any project needs that are necessary to achieve this goal. Projects were identified in these areas and are being pursued by the Conservation Districts and partners. **2022**: The Foundation for Pennsylvania Watersheds included language about keeping high quality

Priority Initiative 2: Reporting and Tracking – Blair, Cambria, Fulton and Huntingdon

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
2.1*	Existing BMP cataloguing (quantity and location) for select BMPs, expanding on general recommendations provided in QAPP BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, wet ponds and wetlands, fencing, cover crop and tillage management	Expand use of existing buffer layer with urban hydrology layer R&D into distinguishing ag, pasture, and turf covers from grassed buffers Manual digitizing where leaf-off <1 ft resolution imagery is available Back check with staff field views where required Add data to Practice Keeper (PK) or another batch upload option	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – Practice Keeper batch upload processing and field views	EPA acceptance of the approach, further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of counties, utilize the approach to catalogue existing BMPs and do on the ground verification where required for reporting purposes, this is an accelerated BMP catch up approach while we continue to provide support to farmers on planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operations Farmers' willingness to share data with PK due to right to know	Precision Conservation Tools General methodology outline BMP field backcheck	N/A	Further GIS and data processing/method refinement 21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,)[18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	$46,000 (2022 only) per county à$184,000 $2,730,000 per year $180,000 per year	**2024:** Blair County continues to incorporate data entry into PK for all planned and implemented preactices as completed through the various funding programs. DEP completes quarterly (or as needed) data dumps to verify BMP completed. Cambria: No Update. HRG worked with Fulton County to train staff on the BMP verification process. This training also worked with each county to integrate BMP verification into the existing workflows to minimize manpower needed to achieve field verification goals. Fulton County has verified and reported 69 BMPs into PK from Chesapeake Bay Inspections. Huntingdon: HCCD has verified and reported 15 BMPs into PK from Chesapeake Bay Inspections. **2023:** In 2023 HRG worked with each county individually to train existing staff on BMP verification protocols and procedures. This training also worked with each county to integrate BMP verification into the existing workflows to minimize manpower needed to achieve field verification goals. Each county has worked to complete field verification of data generated by Chesapeake Conservancy and will continue field verification and reporting into 2024. Blair, Fulton, and Huntingdon have reporting integrated into their current staff responsibilities. **2022**: In December of 2021, all counties were awarded $30,000 to support BMP verification. The counties elected to conduct Phase 1 of a multiphase BMP verification remote sensing effort. All counties elected to put a portion of money to remotely sense the following priority BMPs: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and Streambank Exclusion Fencing in all counties and Wet Ponds/ Detention Basins in Blair County. . Remote sensing data analysis performed by the Chesapeake Conservancy is being finalized in August of 2022 and results are provided in an online ARC Gis Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts. In April
2.2*	Identify future ag/urban project opportunities using automated means	BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest conservation, stream restoration Back check with staff field views Batch upload to FieldDoc to calculate credit opportunity	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS, MS4 Municipalities in Blair County County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – batch upload processing and field views 2024 – 2025 – implementation focus	Different data set scales/precision Willingness of landowners to implement BMPs	Precision Conservation Tools Batch upload processing BMP field backcheck	N/A	Further GIS and data processing/method refinement 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	$46,000 (2022 only) per county à$184,000 $180,000 per year	**2024:** No progress to date. **2023:** As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale -- some have direct equivalents to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground input. The outputs are expected to be publicly available after June 2024. **2022**: No progress to date.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
2.3*	Develop a local system to capture data collection on urban structural and non-structural practices	Add urban stormwater BMPs to FieldDoc or reported to DEP so that as land use data sets are updated, there are accompanying BMPs Work with municipalities that are implementing stormwater management ordinances for less than an acre stormwater management to report practices	Municipal engineers, Chesapeake Conservancy, Municipalities, Planning Commission,	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022	Currently municipalities are not collecting BMP data because it is not required in non-MS4 communities. Must incentivize communities to report, no existing system in place Lack of technical assistance to report and verify practices to DEP	Reporting platform		Training 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5) 4 – municipal planner	N/A $180,000 per year $520,000 per year	**2024:** No progress update, this item will be a candiate in 2025 to update efforts with the Milestone or remove from the CAP. **2023:** Remote sensing efforts by Chesapeake Conservancy yielded minimal result for urban stormwater BMPs. Limited current data from imagery and elevation handicaps the ability of remote sensing software to accurately identify BMPs. **2022**: By early fall the Chesapeake Conservancy will release remotely sensed Wet Ponds and Detention Basins for Blair County. Field Verification will occur and practices will either be entered into PracticeKeeper or FieldDoc. The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant in April of 2022 to support Phase 2 of BMP verification remote sensing analysis. Phase 2 will include analyzing wet ponds and detention basins in urban areas across Huntingdon County. PA DEP has updated FieldDoc to allow for additional reporting of urban
~~2.4*~~	~~Implement a documentation program for commercial and homeowner nutrient applications in developed lands~~ ~~Support current legislation for fertilizer bill.~~	~~Support fertilizer legislation – where legislation requires reporting~~ ~~Legislation will support the implementation of **Urban Nutrient Management – 2,000 acres (B)**~~ ~~**Urban Nutrient Management – 1,400 acres (C)**~~ ~~**Urban Nutrient Management – 1,000 acres (F)**~~ ~~**Urban Nutrient Management – 2,000 acres (H)**~~	~~PSU Extension~~	~~Blair Countywide~~ ~~Cambria Chesapeake Bay Portion~~ ~~Fulton Countywide~~ ~~Huntingdon Countywide~~	~~2022~~	~~Education of responsible parties, receiving timely information, training on reporting system.~~ ~~Partners will need direction from State on what's expected and any reporting system that's developed.~~ ~~Counties aren't equipped with technology or field experience to manage this initiative.~~ ~~Fertilizer Legislation has failed to pass the legislature in the last two years.~~	~~TBD based on fertilizer legislation if passed~~	~~TBD based on fertilizer legislation if passed~~	~~4 – FTE Clean Water Coordinator for Planning Commission~~	~~$520,000 per year~~ ~~Urban Nutrient Management $10 per acre à $64,000~~	~~**2023:** Districts are awaiting guidance and education from Department of Ag on how to communicate the new guidelines.~~ ~~**2022**: On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R) and Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrass fertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting will occur with the new bill.~~

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
2.5*	Improve Agricultural BMP reporting utilizing PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure Transport Reporting and Remote Sensing	Increase reporting of agriculture plans into PracticeKeeper, provide incentives/requirements to private sector Ag planners to report. Work with Capital RC&D to improve current transect survey routes to be more inclusive of cover crop locations, improve data analysis so that all acres are appropriately credited Work with PSU to produce better response rates to the PSU survey for each county Work with PDA/DEP/SCC to improve manure transport reporting	DEP, Conservation District, NRCS, PDA, NRCS, County Farm Bureau, Capital RC&D, Chesapeake Conservancy, PSU Survey, Manure Brokers,	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2025	Private sector ag planners do not have access to PracticeKeeper. Ag planners do not have time to report into PK. Current Capital RC&D routes are not all inclusive and could be improved. Current response rates are low and miss a large demographic of County farmers. Manure brokers are not required to report data annually. Data is not inclusive. Consider a regulatory change. Farmers' willingness to share data with PK due to right to			18 – Student Internships to Support CAP Implementation (Blair - 5, Cambria - 3, Huntingdon - 5, Fulton - 5)	$180,000 per year	**2024:** HRG continues to provide technical support where needed with the PracticeKeeper 3rd party entry module. **2023:** HRG provided support training and technical assistance with data entry of existing plans, BMPs, and field verified BMPs from remote sensing effort to each county individually. HRG will continue to provide technical support where needed with the PracticeKeeper 3rd party entry module. **2022**: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd Party Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into PracticeKeeper for Huntingdon County. Interns in Blair and Cambria County have been actively entering information into PracticeKeeper. For Fulton County a newly higher administrative assistance will be entering information into PracticeKeeper. HRG will provide one on one assistance with data entry going into 2023. In addition, several counties assisted with the transect survey in order to ensure accurate data collection. Blair County: intern has been entering older plans into PracticeKeeper along with older practices. Over 100 plans entered to date. Cambria County: Intern has continued entering old plans and practices into PK. Concerns about cover crop transect survey points need to be addressed to accurately report cover crop acres. Fulton County: Administrative Assistant started starting to enter old files in August of 2022.
~~2.6*~~	~~Standardized Reporting for Dairy Precision Feeding~~	~~Counties would like to utilize the dairy precision feeding BMP. However, current reporting guidelines do not allow for clear reporting standards on feed reduction amounts, how to report, and who is qualified to report. Changes to reporting would result in the following Dairy Precision Feeding BMP Implementation:~~ ~~5,000 dairy cow animal units (B)~~ ~~1,000 dairy cow animal units (C)~~ ~~5,000 dairy cow animal units (F)~~ ~~6,500 dairy cow animal units (H)~~	~~Chesapeake Bay Program, Penn State Extension, Dairy co-ops~~	~~Blair Countywide~~ ~~Cambria Chesapeake Bay Portion~~ ~~Fulton Countywide~~ ~~Huntingdon Countywide~~	~~2022~~	~~It is recommended that milk urea nitrogen (MUN) be an acceptable standard for reporting dairy precision feeding. Guidelines need to be posted on acceptable MUN rates and work with dairy integrators to receive MUN data to report to DEP.~~	~~Research~~	~~N/A~~	~~Reporting protocol~~	~~N/A~~	~~**2023:** No progress to date, reporting standards and on-farm implementation education still must be improved.~~ ~~**2022**: No progress to date, reporting standards still remain an issue to utilize the BMP.~~
2.7*	Water, Sewer and Wastewater Treatment Plants reporting and upgrades	Work with Water, Sewer and Waste Treatment facilities to accurately document plant upgrades. Upcoming plant upgrades: Brown and Union Township, Saltillo (H) Altoona Digestor (B) Tipton/Plane and Nine/Mill Run, Petersburg Borough (H) McConnellsburg composts biosolids (F)	DEP Brown and Union Township, Saltillo (H), Altoona Digestor (B), Tipton/Plane and Nine/Mill Run, Petersburg Borough McConnellsburg Borough	CSO and Waste Treatment Facilities	Ongoing	Need DEP to work with waste facilities to accurately document plant upgrades. Need reductions to be accurately captured in CAST. Work with DEP to determine how composting helps to reduce nitrogen and phosphorus. Accurately document the results and report in CAST.			4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District	$520,000 per year $520,000 per year	**2024:** Blair: This was discussed during the Phase I SWMP plan and was tangentially included, but was not thought to be directly tied to storm water management under Act 167. If need be, we can pull it into a Phase II Plan for discussion/inclusion. Fulton: No Update: Huntingdon: Anticipate completion of 2023 sewer and water infrastructure survey. In May 2023, Planning Department staff conducted a two-part municipal sewer and water outreach: 1) sent a survey form to all municipalities asking if they have a municipal water or sewer system, and, if so, to provide the contact information; 2) sent separate detailed sewer and water surveys to the identified individuals/authorities to assess current and future needs. 11/20 sewer survey responses received; 7/15 water responses received. **2023**: No progress to date.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
Priority Initiative 3B: Achieve New Pollutant Reductions Blair County											
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 Restoration – needs project leads	1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $500,000 to support continued implementation of restoration initiatives	**2024:** Working with HRG to review plans for the Plum Creek and Sugar Run Watersheds. Plum Creek: HRG has reviewed the Watershed Assessment, Restoration, and Preservation Plan and has identified areas within the watershed that additional work could be needed. HRG has reached out to John Kennedy Trout Unlimited for additional information about potential landowners in the HQ-CWF section of the watershed for project implementation. LFT has been doing targeted farm visits in the headwaters to identify ag projects on operations to reduce pollutants from reaching the waterway. Sugar Run: HRG has reviewed the Watershed Assessment, Restoration, and Preservation Plan and has reached out to St. Francis University for Technical Assistance on water Quality Sampling and AMD BMP design. Water quality sampling will begin in fall of 2024 through 2025. **2023**: No progress to date. **2022**: No progress to date.
3.2B*	Trout Unlimited Non-point source Technical Assistance Program	8 proposals were submitted for streambank and in-stream 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 Implementation 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	Partial	TU Technical Assistance 1 – FTE Clean Water Coordinator for Conservation District	$50,000 in design $130,000 per year	**2024:** BCCD in partnership with TU completed a 2,980 LF stream restoration/bank stabilization project along Gillans Run and UNT Gillans Run. Installed a single log framed stone deflector along Gillans Run to finish a previous project approximately 25 LF. JKTU in partnership with TU designed and permitted three stream restoration/bank stabilization projects. Two of the projects will be implemented in fall 2024 (along Poplar Run and Blair Gap Run). The third project is along Canoe Creek which will be implemented in 2025. **2023:** BCCD continues the partnership with TU. One stream stabilization project was completed. TU provided TA for another project at an urban site that also flows through existing agricultural land. **2022**: BCCD is extensively using technical assistance program. BCCD completed 4 stream restoration projects this year utilizing the TU Program. Continues to utilize TU for technical assistance and plans to use them going forward. Projects are in Gillans Run, Spencer Run, Nature Works Park (Beaverdam Branch).

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
3.3Ba	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Expand partners to accelerate the installation of eight stream bank restoration and riparian buffer projects in the MS4 regulated regions **8,885 ft stream restoration** **4-acre riparian buffer planting**	Blair County Conservation District, PA Intergovernmental Stormwater Committee (ISC), ISC Engineers, John Kennedy Local Trout Unlimited, Tri-Run Watershed Association, Little Juniata Watershed association, PA DCNR, Maple Hollow Townhouses Homeowners association, Master Gardeners	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority MS4 Regulated Area	2021-2023	ISC has no capacity to scale up. Identifying additional partners to support with implementation. Expand geographic scale of implementation outside of defined urbanized area. Outreach to non-MS4 communities Limited budget for ISC, limited budget prevents outreach to non-MS4 communities	Engineers (ISC) Staff Time to support efforts (CD) Volunteer Buffer Plantings, and other work (St Francis University, LJRA, TU, TRWA, DCNR)	$41,000 $78,000 $350,500, free trees	2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide TA and ag planning 3 – FTE inspector construction Services	$280,000 per year $420,000 $280,000 per year $780,000 per year $315,000 per year	**2024:** With the NFWF funding - 13 farm lanes were stabilized for erosion control totaling 11,810 linear feet of eroding farm lanes repaired, six streambank restoration projects installed - totaling 4,200 L.F. stream banks stabilized, two rain gardens were re-planted and a volunteer group identified to continue green infrastructure maintenance identified, seven riparian buffers planted totaling 4.5 acres forested buffer established, 8 riparian buffer workshops conducted reaching 120 people, one farmer workshop connecting with 52 farmers in Blair County, six regional pasture walks held - solidifying a tri-county grazing group of approx. 75 farmers, hosted one regenerative agriculture/local food hub workshop connecting with 42 farmers/organizations, a small urban riparian buffer planted, a green infrastructure workshop held to train landscape professionals, stream testing materials and equipment were purchased to continue Blair County's on-going stream monitoring program to identify stream-heath baseline in the County, and a new stream monitoring volunteer group was organized to train and initiate a volunteer stream monitoring program in Blair County. **2023:** Starting to concentrate on farm lane construction and repair. Several designs are being developed for green infrastructure in urban projects. Another project was designed and permitted through the INSR grant. **2022**: Soliciting farmers for farm lane stabilization through farm visits, fliers, presentations, and Farm Bureau newsletter articles. Hopefully starting on construction in the spring of 2023. INSR supported action 3.2B stream restoration construction. The District is holding 2 CREP workshops

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
3.3Bb	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR) Strengthen the partnership with Blair County Municipalities by scaling up Dirt and Gravel/Low Volume Road	Develop cost share program to fund Green Infrastructure and riparian buffer practices Target stormwater practice implementation upstream of D&G Roads Offer cost shared program to reduce sediment pollution from unpaved roads and culvert outlets in the AG sector – 10 projects total Implement Stormwater Practices in Tyrone Township and Borough	Blair County Conservation District, Blair County Municipalities, NRCS, Tyrone Township and Tyrone Borough, Blair County Farm Bureau	Non-MS4 communities of Beaverdam Watershed	2021 - 2023	Will work with NRCS staff to identify farms needing road/culvert repair; however, NRCS staff is limited and working beyond their scope is difficult	Volunteer Time	$183,000	2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE inspector construction Services	$280,000 per year $420,000 $280,000 per year $780,000 per year $315,000 per year	**2024:** see 3.2 Ba **2023:** see 3.2Ba **2022**: see 3.2Ba
3.3Bc	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Accelerate the adoption of regenerative agriculture practices on farms in Blair County and establish a Regional Soul Health Hub in partnership with Pa Soil Health Coalition Conduct 5 farmers workshops Utilize multi-county grazing group to further promote the use of prescribed grazing	Blair County Conservation District, Blair County Municipalities, NRCS, PA Soil Health Coalition, Project Grass, PAGLC, PA No-Till Alliance,	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority	2021 - 2023	NRCS Staff is limited The principal gap that limits our capacity to scale up is the lack of funding and farmer understanding of the need to adopt regenerative ag related practices	Plan Writers		2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning	$280,000 per year $420,000 $280,000 per year $780,000 per year	**2024:** see 3.2 Ba **2023:** see 3.2Ba **2022**: see 3.2Ba
3.4B	Exploring opportunities to develop a plan for Spencer Run	Need to conduct a watershed assessment for Spencer Run. Funding already established Already conducted a flood assessment	JK Chapter of TU, Army Core of Engineers	Spencer Run Watershed	2022 complete watershed assessment	Lack of staffing with quick grant turnaround. Plan development can take time	Technical assistance		6 – additional Ag Planners to provide technical assistance and ag planning	$780,000 per year $150,000 to develop a plan for Spencer Run	**2024:** Preliminary engineering assessment of upslope watershed did not produce any meaningful projects that could be undertaken within the scope of the existing DCED Keystone Communities Funding. The proposed floodplain reconnection in the lower reach of Spencer Run also did not prove to be a viable option. Consideration is being given to include a stream restoration and possible floodplain options on the Weimer Property east of the intersection of Spencer Run and Mill Road. HRG will work to develop potential plans and permit applications. **2023:** Streambank stabilization implemented in Spencer Run using DCED Keystone Communities funds. BCCD is using an engineering firm to identify upslope stormwater management options using that funding. **2022**: Streambank stabilization implemented in Spencer Run. Considering a floodplain reconnection project on Spencer Run.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
3.5B	Altoona Water Authority Regional Digestor	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	$36 million	1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year	**2024:** No update at this time. **2023**: Regional digester is complete and being brought online. No manure will be added to the facility, and communication with AWA staff has indicated that nutrient reductions from the facility may by net even with current loads. **2022**: No progress to date. In the fall follow-up with AWA to document progress on the regional digestor.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
Priority Initiative 3C: Achieve New Pollutant Reductions Cambria County											
3.1Ca	Implement the 2020 Cambria County Conservation District Strategic Plan	Increase the number of stream restoration BMPS installed, submit grants once a year to implement AMD and AG impaired waters (2 miles of AMD stream by 2025, Glendale Lake streambank stabilization) Conduct 10 comprehensive farm evaluations for BMPs (assume 60 acres per farm – 600 acres of new potential planning), Funding by 2025 Assist 5 farmers per year with soil conservation and nutrient management plans (portion of 10,000 acres of new soil conservation and water quality plan goal)	CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, EPCAMR, WPC, AmeriCorps, Bens Creek Canoe Club, PAFBC, PSU Extension, Clearfield Creek Watershed Association, Chest Creek Watershed Association	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives, landowner issues			1 – Municipal Engineers 2 – FTE Design, Engineer, Permits 1 – stream biologists 3 – additional Ag Planners to provide TA and ag planning 2 – FTE Construction Inspector 1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for	$140,000 per year $280,000 per year $140,000 per year $390,000 per year $280,000 per year $130,000 per year $130,000 per year	**2024:** CCCD continues to make progress towards increasing the number of stream restoration BMPs installed throughout the County with numerous projects being completed in 2024. CCCD assisted producers in the County by assisting with 0 Ag e&s plans, 0 Nutrient Management Plans, 5 Manure Management Plans, and 4 additional producers received technical assistance for plan writing. **2023:** Continues to progress. Streambank stabilization at Glendale Lake has been completed. 4 manure management plans, 3 Ag E&S plans, 2 nutrient management plans, and 3 farmers were assisted with TA. CCCD applied for a Growing Greener grant for streambank stabilization projects. Glendale shoreline restoration of 2,340 LF. West Branch Susquehanna streambank stabilization of 4,000 LF. **2022**: Due to a lack of qualified applicants and existing grant funds the CCCD was not able to hire additional staff to support implementation of the Conservation District Strategic Plan
3.1Cb	Implement the 2020 Cambria County Conservation District Strategic Plan	Develop MOUs with municipalities on E&S, meet with 12 municipalities per year Meet with 15 municipalities in 3 years to promote stormwater management planning Meet with county agencies to promote stormwater planning and ACT 167 requirements Have at least 1 demonstration project by 2022 to showcase stormwater BMPs Achieve addition of 2 staff to district employees by 2025 Increase 1 FTE for program support, environmental education, and accounting	CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, WPCAMR, WPC, AmeriCorps, Bens Creek Canoe Club, PAFBC, PSU Extension	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives			See 3.1Ca	See 3.1Ca	**2024:** See 3.1Ca **2023:** See 3.1Ca **2022**: See 3.1Ca

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
3.2C*	Implement Brubaker Run Cold Water Conservation Plan	Address remaining AMD and AML issues through restoration efforts Culvert replacement projects Opportunities for stream restoration near Hastings Work with farmers to educate them on erosion and sediment control Continue to fund Dirt and Gravel Road projects	CCPC, Municipalities, CCCD, PAFBC Work with municipal officials, business owners, residents and PennDOT for stormwater BMPs	Brubaker Run Watershed	Ongoing	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts Need to secure AMD/AML funding			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $130,000 per year $500,000 to support implementation of Plan Other funding is identified throughout initiatives	**2024:** CCCD hosted educational events to educate approximately 7- producers in the County regarding erosion and sedimentation controls. **2023:** Completed 160 LF of streambank stabilization and PA Game Commission has received permits to replace culverts on State Game lands. **2022**: Implemented a streambank stabilization project at three separate locations in Brubaker Run. A total of 655 linear feet was stabilized.
Priority Initiative 3F: Achieve New Pollutant Reductions Fulton County											
3.1F	Develop a watershed implementation plan for Big Cove 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 Development 2023 Secure funding 2024 begin implementation	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 pursue.		Plan Writing Dollars	Implementation Support	$1,000,000 to support implementation of the plan	**2024:** Watershed Assessment Plan will be completed by the end of 2024. Once the plan is complete, District will identify potential projects to seek funding for implementation. District received GGG to design and permit two additional stream restoration projects within this watershed. **2023:** Assessment will be completed by end of 2023. Three projects will be completed in the stream corridor restoration project by the end of 2023. **2022**: FCCD is assisting with a stream restoration project on Buchanan State Forest along Big Cove Creek. 2019-2021 Growing Greener Grant (extension granted through December 2022) - Approximately $560,000 left to expend in the grant ($555,000 construction/$5,000 administrative). - Big Cove Creek Stream Corridor Restoration, Big Cove Creek (ag-impaired section). Final designs have been completed; permit was approved in July, Construction to begin in the fall of 2022. 2020-2022 Growing Greener Grant - $112,000 awarded (contractual). - Assessment of Upper Big Cove Creek. Working with the Center for Watershed Protection and Ecosystem Planning and Restoration to implement the assessment. Plan needs to be developed by December of 2024.
3.2F	Exploring opportunities to develop a plan for Cove Run Watershed	Look to secure funding to write a develop either a 319 WIP, Alternative Restoration Plan or Cold-Water Conservation Plan to support implementation goals of the Phase 3 WIP.	FCCD, NRCS,	Cove Run Watershed	2022 – secure funding for plan development 2023 – begin plan writing	Securing funding to support the development of an additional watershed plan. Might be able to move forward with some implementation projects without plan development.			Rapid Delisting approach	$150,000 for plan development	**2024:** District partnering with Chesapeake Bay Foundation to model the watershed using Model My Watershed, rather than developing a 319 Plan. It was determined that expending effort into quantifying numerics from Model My Watershed and applying for grants to implement BMPs is the more feasible route to go at de-listing the Ag impaired stream. District will conduct visits with landowners in the watershed to discuss the importance of streambank fencing and the establishment of riparian buffers. **2023:** Plan has not progress, however, LFT has focused their outreach efforts in the watershed and generated interested landowners for projects.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
Priority Initiative 3H: Achieve New Pollutant Reductions Huntingdon County											
3.1H*	Implement the Miller Run Cold Water Heritage Conservation Plan	Continue semiannual water quality monitoring Continue to Address remaining AMD and AML issues through restoration efforts, ongoing maintenance of existing systems Ensure farmland managed by Game Commission has BMPs and are properly managed Reporting and Verification of existing projects implemented 2000-2010	Shoups Run Watershed Association, HCCD, PA Game Commission	Miller Run Watershed	Ongoing	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts If existing AMD system fail water quality will return to hazardous levels Miller Run has been delisted, but macros still need improvement. Work with Juniata College to perform additional monitoring efforts			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $130,000 per year $50,000 for funding and technical assistance to continue monitoring and maintenance	**2024:** HCCD is still waiting to hear if funds were awarded from the 319 grant for the passive AMD systems in the Miller Run Watershed. **2023:** HCCD applied for a 319 grant to rehabilitate 2 passive AMD systems in the Miller Run watershed. **2022**: Need to maintain existing AMD systems, major flooding in 2021 has increased the need for more restoration in the future. Semiannual water quality monitoring showed decreased treatment/failure which let to funding search. Applied for WPCAMR and received $29,800 in funding for repairs/major cleaning. HCCD applied for two more grants to repair these systems in the fall of 2022.
3.2H	Implement Standing Stone Creek Coldwater Conservation Plan	Plan is currently under development and set to be finished in September of 2021 This plan is an opportunity to help implement CAP Initiatives	HCCD	Standing Stone Creek Watershed	9/2021 completion Ongoing implement ation	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $130,000 per year $500,000 to support implementation of the plan	**2024:** HCCD received a Growing Greener application for $376,346 for the Standing Stone Sediment reduction project which aims to implement stream restoration for the project site. **2023:** In Herod Run, an off stream watering system has been implemented and a stream restoration is slated for fall of 2023 through a partnership with WPC and USFWS. **2022**: Community Foundation for the Alleghenies; $18,000: Standing Stone Wetland Restoration Project, Miller Twp., Huntingdon County. Proposed to be completed in October 2022. Proposed activities include construction of a vernal pool and implementation of 8 acres of buffer restoration. Planned to implement buffer in October 2023: 2022. Partners include BluAcres, LLC, Huntingdon Co. Conservation District, DCNR, Cold Water Heritage Program, and the landowner. Status: A stream assessment was undertaken by HCCD; design has been completed by BluAcres; Pre-application meetings with DEP have taken place; E & S Plan has been compiled. HCCD and WPC put in application to Growing Greener for stream restoration on Harod Run for 3,800 linear feet. Applying for buffer funding for 13.5 acres on Harod Run. Couple of projects gaining landowner interest, need to identify funding.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
3.3H	Juniata University (College) Urban Tree Initiative	Juniata College has established a "Tree Care Plan" along with a tree advisory committee to further implementation of trees on campus. Partner with Huntingdon Borough Tree Commission	Juniata College, Tree Advisory Committee, Huntingdon Borough Tree Commission and service	Juniata College	Ongoing	Partner with Huntingdon Borough tree commission and borough to implement projects. If the tree commission has more funding, they could implement more projects.	Volunteer services		1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for CD	$130,000 per year $130,000 per year $50,000 to support Huntingdon Borough Tree Commission	**2024:** The partnership between HCCD, Juniata College and HRG has continued in 2024. Juniata College has planted 5 additional tress in 2024 to replace existing trees that needed to be removed due to age and condition. 5 new trees have been lined up for future planting with a new grant received by Juniata College. HRG will assist the University in reproting plantings. **2023:** HRG worked with HCCD and Juniata College to report plantings into FieldDoc. We will continue to support the initiative with any technical resources needed and report implementation of plantings. **2022**: no progress to date.
3.4H*	Explore options for developing a watershed restoration plan at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run	A desire to implement plans at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run. DEP developing a plan on Great Trough Creek to address the Dudley Run Discharge.	SRBC, Chesapeake Conservancy, Conservation District	Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run, Sadler Creek	2024-2025	Funds are available to address Great Trough Creek; however, funds are in general services and there is a legal battle transferring these funds to Bureau of Mining. This must be accomplished before a plan can be developed.			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $130,000 per year $150,000 per plan à $600,000 total for four plans	2024: An additional 1,475 feet of stream restoration occurred in 2023 along Warrior Mark Run. The project was funded through Growing Greener and partners included USFWF, Chesapeake Conservancy, and WPC. **2023:** Warrior's Mark run has been the focus of HCCD. 2 HUAPs have been planned. USFWS has completed 18,216 LF of stream restoration in the watershed. **2022:** Dudley discharge could be supported through new AMD funding. Lancaster Farmland Trust completed 7 farm visits in Fort Run watershed and identified several projects on farms to be completed in the future.
3.5H *	Shoup's Run 319 WIP	BAMR is currently in the design phases of an abandoned mine land reclamation project in the Great Trough Creek watershed approximately 4 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.	BAMR, Conservation District	Great Trough Creek and Dudley Discharge, Shoups Run	Ongoing	DEP must be successful with the implantation of the Dudley Discharge AMD site.			1 – FTE Clean Water Coordinator for Conservation District	$130,000 per year $500,000 for plan implementation	**2024:** HCCD applied for a 319 grant to rehabilitate 2 passive AMD systems in the Miller Run watershed in 2023, which is part of the Shoup's Run 319 WIP. HCCD is still waiting to hear back about grant funds being awarded or not for the project. **2023:** HCCD applied for a 319 grant to rehabilitate 2 passive AMD systems in the Miller Run watershed, which is part of the Shoup's Run 319 WIP. **2022**: Containing to maintain the systems, maintenance completed on Minersville in 2022.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
Priority Initiative 4: Achieve New Pollutant Reductions (Blair, Cambria, Fulton, Huntingdon)											
4.1	Rapid Delisting Catchment Strategy through the Precision Conservation Partnership	Rapid delisting will identify priority areas and BMPs	Chesapeake Conservancy and partners	Plum Creek and Tributary to Piney Creek (B) Duclos Run – Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no-till) (C) Cove Run and Big Cove Creek (F) Warriors Mark Run and North Branch of the Little	2021-2024	Reinvigorating landowner interest, design/permit/construction schedules,	Program management and GIS Landowner outreach	$500,000	11 – additional FTE municipal/ environmental planners	$1,430,000 per year $100,000 dollars to complete rapid delisting program management per year per county à total cost $2,000,000 Other funding identified in below initiatives	**2024:** LFT has done outreach to identify farms in Plum Creek that are in need of BMPs to promote Water quality in the watershed. The targeted outreach and identification of potential project sites is the first step of delisting the watershed. CCCD has met with the Chesapeake bay Foundation and HRG to receive training on Model My Watershed to run modeling on Chest Creek and Duclos Run. The modeling will help identify areas where BMPs need to be implemented in hot spots. HRG has looked into rapid de-listing on Chest Creek and Duclos Run in Cambria County. Future coordination with the Chesapeake Bay Foundation on Rapid De-listing strategies will be held later in 2024 to set the groundwork for delisting these two watersheds. District partnering with Chesapeake Bay Foundation to model the watershed using Model My Watershed, rather than developing a 319 Plan. District will conduct visits with landowners in the watershed to discuss the importance of streambank fencing and the establishment of riparian buffers. In collaboration with WPC and USFWS on the Will Yoder buffer which included 3,781 feet of stream banks were restored along Herord Run. A riparian buffer was also planted at the site with the help of the Chesapeake Conservancy. The project was funded through Growing Greener **2023:** Huntingdon is continuing to work in Warrior's Mark. Planning and design is beginning with one farm. HCCD is sponsoring a PennVEST application to support the rapid delisting initiative. In Herod Run, an off stream watering system has been implemented and a stream restoration is slated for fall of 2023 through a partnership with WPC and USFWS
4.2(B)*	Help farmers and operators to be in compliance with state and federal requirements: Conservation and Nutrient Management Plans	**Soil and Water Quality Conservation Plans (AG E&S) 25,000 acres** **Nutrient Management (Manure Management) 25,000 acres of Core N and ~~15,000~~ 31,500 acres of Core P** Work with ACT 38 operators (8), Preserved Farms (56), enter existing plans that were inspected but not reported to PK and certified organics to document plans already required	4R Alliance, BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	Lack of DEP inspections. Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered. Lack of Technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans. Act 38 and Preserved Farms not required to enter plans in PK, 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.			6 – additional Ag Planners to work with farmers to develop required plans Private Sector Ag Planners – farmers more willing to work with them opposed to district	$780,000 per year $15 per acre for a total cost of $375,000 $15 per acre for a total cost of $225,000	**2024:** Blair continues to work with producers to be in compliance with State and Federal requirements. In 2024,so far in 2024, Blair identified 1 CAO and assisted with the writing of a NMP and AG E&S plan. District staff has also written MMP and Ag E&S plans for 5 landowners. The District has also assisted farmers with obtaining funding to have an additional farm operation get plans for ~ 11 parcels. **2023**: To date in 2023, 7 MMP/NMP's totaling 661 acres have been verified. Four plans have been written totaling 360 acres. Four Ag E&S plans totaling 146 acres have been verified and wrote two plans for 357 acres. Three more NMP's totaling 10,491 acres are planned for review this fall. **2022**: From 2020 to 2021 progress Blair County increased nutrient management reporting by over 4,100 acres across the county. For Conservation Plan Blair County increased reporting by 2,400 acres. Increase in voluntary acres is believed to e a result of competitive ranking for the NRCS EQIP program. PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Blair County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG will be attending the rollout of this program to maximize opportunities to get farmers additional plans. Blair County: Intern has entered over 100 plans into PracticeKeeper for reporting. District is continuing to write plans for farmers. Inspected 38 farms before June of 2022. 2022-2023, 38 additional farms will be inspected.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.2(C)*	See 4.2B	**Soil and Water Quality Conservation Plans (AG E&S) ~~10,000~~ 11,000 acres** **Nutrient Management (Manure Management) 15,000 acres of Core N and 5,500 acres of Core P** Work with ACT 38 operators (1 currently), Preserved Farms (20), and certified organics to document plans already required	4R Alliance, CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag Land – Chesapeake Bay Portion	2022-2025	See 4.2 B Rented ground changing hands every year, hard to keep plans up to date each year. PA One Stop Needs Revised to include the most modern farming practices. Some farmers are using this program to develop their own plans.	50 inspections completed per year for last 3-years (150 total)		3 – additional Ag Planners to work with farmers to develop required plans.	$390,000 per year $15 per acre for a total cost of $150,000 $15 per acre for a total cost of $82,500	**2024:** 0 acres in Nutrient Management Plans and ag e&s plans written. 1,245 acres of Manure Management Plans. **2023:** 4 Ag E&S (380 acres), 2 Manure Management Plans (406 acres), and 564 acres of Nutrient Management Plans were written to date in 2023. **2022**: PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Cambria County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG will be attending the rollout of this program to maximize opportunities to get farmers additional plans. Cambria County: nutrient management tech is writing manure management plans and AG E&S plans. Intern will be entering plans into PK in the fall. Completed 50 Inspections last year, will complete 13 inspections in 2022-2023.
4.2(F)*	See 4.2B	**Soil and Water Quality Conservation Plans (AG E&S) ~~15,500~~ 30,000 acres** **Nutrient Management (Manure Management) 24,500 acres of Core N and ~~18,500~~ 24,500 acres of Core P** Work with ACT 38 operators (12), Preserved Farms (240 acres), and certified organics to document plans already required	4R Alliance, FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	See 4.2B Better information sharing with NRCS. Chesapeake Bay Inspections are the best way to capture and document Plan Compliance Prefer additional District staff over a consultant to conduct one on one farm outreach	75 inspections performed per year; 17 plans developed per year NRCS can develop and update about 20 plans per years.		6 – additional Ag Planners to work with farmers to develop required plans.	$780,000 per year $15 per acre for a total cost of $232,500 $15 per acre for a total cost of $277,500	**2024:** District is now completing 50 Phase 2 Chesapeake Bay ag inspections per year, and as such, we are not writing as many plans as we did with Phase 1 inspections. One Ag E&S and one MMP have been written so far in 2024. District has identified several operators that need plans developed, at three MMPs. **2023:** No plans have been written to date in 2023. **2022**: From 2020 to 2021 progress Fulton County increased nutrient management Core P reporting by over 18,400 acres across the county. For Conservation Plan Fulton County increased reporting by 8,400 acres. PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Fulton County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG will be attending the rollout of this program to maximize opportunities to get farmers additional plans. Nutrient Management Technician has developed 20 AG E&S Plans and 20 Manure Management Plans to date in 2022, goal was 17 for both by the end of 2022. Information is entered in PK. Fulton has completed 20 Phase 2 Inspection to date, 38 inspections will be complete in 2022-

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.2(H)*	See 4.2B	**Soil and Water Quality Conservation Plans (AG E&S) 30,000 acres** **Nutrient Management (Manure Management) 25,000 acres of Core N and ~~15,000~~ 31,000 acres of Core P** Work with ACT 38 operators (24), Preserved Farms (11), and certified organics to document plans already required	4R Alliance, HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	Huntingdon County Ag Land	2022-2025	See 4.2B	12 Inspections completed per year for a total of about 50 completed over the last 4 years		6 – additional Ag Planners to work with farmers to meet 4R standards Cost share support for equipment (Spreaders) 0.5 FTE – Chesapeake Bay Technician to expand this position to a full-time position	$780,000 per year $250,000 cost share budget (maintenance, staff support and cost) $65,000 per year $15 per acre for a total cost of $450,000 $15 per acre for a total cost of $225,000	**2024:** The District provided technical assistance to farmers by writing 18 manure management plans for operations in the County in 2024. **2023**: Huntingdon County implemented 3,464 new acres of manure management plans in 2023. **2022**:From 2020 to 2021 progress Huntingdon County increased nutrient management Core N reporting by over 2,600 acres and Core P by 13,700 acres. PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Huntingdon County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG will be attending the rollout of this program to maximize opportunities to get farmers additional plans. Completed 13 ag inspection last year and planned for an additional 13 farms next year. Intern is writing manure management and ag E&S plans. Have seen an increase in number of voluntary and involuntary nutrient management plans.
4.3	Advanced Nutrient Management (4R) Practice Education and Implementation	Increase reporting of supplemental nutrient management BMPs through existing programs and initiatives. Explore the idea of increasing pre-sides nitrogen testing (PSNT) or Chlorophyl testing to District program participants. Transition manure management plans to	4R Alliance, CD, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion	2022-2025	Landowner interest, BMP verification (annual) Lack of Technical assistance to support agriculture planning and implementation Additional funding to support soil testing. Soil testing is key	Educational support		21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)	$2,730,000 per year $250,000 cost share	**2024:** Blair continues to report supplemental NM BMPs from status reviews performed. Blair is working with producers and has 9 manure storages in various stages of design. These storages will enable farmers to better apply manure following 4R practices. Cambria: No Update. Fulton: No Update. **2023:** HRG provided individual county trainings that proved to be beneficial. County staff will now

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.4*	Implement Practice to improve soil health and sustainability (Tillage Management and Cover Crops)	Determine feasibility of having a county cost share program to enhance adoption of the annual practice, pay incentive per acre **Implement tillage management and cover crops on an annual rate of 19,000 acres High Residue, 12,000 acres Conservation Tillage, 5,200 acres Low Residue, ~~8,500~~ 26,000 acres traditional cover crops, ~~and 12,500 acres cover crops with fall nutrients~~ (B)** **~~8,000~~ 15,000 acres HR, 6,500 acres CT, 3,000 acres LR, ~~6,300~~ 12,000 acres of CC ~~and 1,000 acres CC with fall nutrients~~ (C)** ~~10,000~~ 20,000 acres HR, 7,700 acres CT, 5,000 acres LR, ~~7,700~~ 16,400 acres CC ~~and 8,700 acres CC with fall nutrients~~ (F) **~~20,000~~ 31,000 acres HR, 10,000 acres CT, 4,000 acres LR, ~~8,000~~ 18,000 acres CC ~~and 10,000 acres CC with fall nutrients~~ (H)**	CD, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022-2023	Current verification methods do not accurately capture implemented amounts - work with Capital RC&D & DEP to improve transect survey routes and data collection methodology. Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage. Farmers are harvesting cover crops for animals, need accurate crediting for commodity cover crops. Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter years. Organic farmers are using tillage to manage weeds and vertical tillage is becoming more popular among farmers, younger generation is "trying" tillage for experience. Potato farmers use tillage as part of their operations.	Transect survey 2 – No till drills for rent 1 – No till drill for rent	EQIP – pays $50 per acre for single species, $60 per acre for 3 species	21 – additional Ag Planners to provide TA and ag planning (B-6, C-3, F-6, H-6,) Cost share support for equipment – no-till drill (F) Cost share support for no-till drill (H) County Conservation District – staff to administer the program Capital RC&D Transect Survey	$2,730,000 per year $250,000 cost share budget (maintenance, staff support and storage) $250,000 cost share budget $90 per acre traditional per year ▯ $2.745M for a 5-year total of $13.725M (incentive payment, capital RC&D) $50 per acre fall nutrients per year ▯ $1.61M for 5-year total of $8.05M $150,000	2024: Blair: For the 2023-2024 Cover Crop Program, 2,724.3 acres were installed. For 2024-2025 estimating 3,000 acres of Cover Crop to be installed. Cambria: 215.6 acres were installed with the No Till Drill program and 1,176.44 acres were installed in the Cover Crop program. Fulton: 1,467 acres were enrolled in the first year (23/24) of the District's Cover Crop Incentive Program; however, the District only had enough funds (ACAP) to pay for 734 acres. Currently accepting applications for the second year (24/25). In 2023, 1,259.4 acres were planted with the District's no-till drill. District added a second drill in late fall of 2023. To date, 667 acres have been planted with both the District's drills. In 2024, The District developed a survey to collect data from farmers for BMP verification. This survey is mailed with all NTD invoices. Farmers receive a 10% discount for completing the survey and including it with their payment. Huntingdon- 6,900 acres of cover crops were planted in Huntingdon County. 2023: Blair: 3,800 acres of cover crop program estimated for 2023-2024. For the 2022-2023 Cover Crop Program, 2,747.81 acres were installed. Fulton: For 2023-2024, 400 acres are planned for the Cover Crop Program. For 2023, 496 acres were planted with the No-Till Drill program. Huntingdon: For the 2022-2023 program, 2,571.88 acres were installed. Cambria: For 2023, 259 acres were installed with the No-Till Drill Program. 2022: Blair and Huntingdon County are using the CAP Block Grant to administer a Cover Crop Program. The Cover Crop Program registration will be closing soon and counties will know the status of how many acres will be funded for 2022.
4.5B*	Implement more pasture management BMPs	**Prescribed grazing – ~~80~~ 600 acres** **Forest buffers on fenced pasture corridor – 35 ~~200~~ acres** **Grass buffers on fenced pasture corridor – 35 acres** **Land retirement to AG Open Space – ~~300~~ 700 acres**	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	Landowner education, BMP funding for non-buffer work, plan updates, data gathering Lack of Technical assistance to support agriculture planning and implementation	Landowner education	CBF grant	6 – additional Ag Planners 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Prescribed grazing $540 per acre: $43,200 total FB Buffer with Exclusion $10,500 per acre: $367,500 total GB Buffer with Exclusion $2,750 per acre ▯ $96,250 total Land Retirement	**2024:** PA Ombudsman Program coordinated and held several outreach events within the region targeting increased implementation of rotational grazing and pasture management BMPs. A 2.8 acre rotational grazing system was installed in 2024. I&Es on three additional farms with NRCS were performed. **2023:** PA Ombudsman Program coordinated and held several outreach events within the region targeting increased implementation of rotational grazing and pasture management BMPs. A 30 acre rotational grazing system was installed in 2023. Another 25 acre rotational grazing system was also installed with additional animal walkways. **2022**: Phase 1 of BMP verification identified 90 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing. Blair County is working with a farmer to implement BMPs with CAP Block Grant funding. The district is coordinating with NRCS on additional projects. Grazing system installation project will be completed by spring of 2023 and reported into PracticeKeeper.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.5C*	Implement more pasture management BMPs	**Prescribed grazing – ~~125~~ 365 acres** **Pasture Alternative Watering – ~~250~~ 690 acres** **Forest buffers on fenced pasture corridor – 10 acres** **Grass buffers on fenced pasture corridor – 12 acres** **Land retirement to AG Open Space – 200 acres**	CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals – Chesapeake Bay Portion	2022-2025	See 4.5B Old NRCS plans need to be updated to comply with prescribed grazing definition – difficult to get landowner buy-in – fund alternative watering and fencing; most pastures are streamside	Landowner education	CBF grant	3 – additional Ag Planners 2 – additional FTE environmental technician	$390,000 per year $260,000 per year Prescribed grazing $540 per acre: $67,500 total FB Buffer with Excl. $10,500 per acre: $105,000 total GB Buffer with Excl. $2,750 per acre: $33,000 total Land Retirement $500 per acre: $200K total Pasture Alternative Watering $500 per acre: $125,000 total	**2024:** A pasture Walk held in Cambria County in May 2024 to showcase grazing and pasture management. 134 acres of grazing plans were written. **2023:** PA Ombudsman Program coordinated and held several outreach events within the region targeting increased implementation of rotational grazing and pasture management BMPs. 51 acres of prescribed grazing plans were completed in 2023. Another prescribed grazing project is scheduled for 2024 equaling 100 acres. Installed 131.1 acres of pasture alternative watering systems. **2022**: Phase 1 of BMP verification identified 50 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing. Shifting CAP funding to cover gap in EQIP funding on an implementation project. Planning to apply for 2023 CAP Block Grant funding for a project. The district has an additional project opportunity they are exploring.
4.5F*	Implement more pasture management BMPs	**Prescribed grazing – ~~100~~ 1,500 acres** **Forest buffers on fenced pasture corridor – 5 acres** **Grass buffers on fenced pasture corridor – 5 acres** **Land retirement to Ag Open Space – ~~70~~ 1,500 acres** **Pasture Alternative Watering - 3,000 acres**	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	See 4.5B Increasing construction costs are resulting in canceled NRCS contracts	Landowner education	CBF grant	6 – additional Ag Planners 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Prescribed grazing $540 per acre: $54,000 total FB Buffer with Exclusion $10,500 per acre: $52,500 total GB Buffer with Exclusion $2,750 per acre: $13,750 total Land Retirement	**2024:** No Update. **2023:** PA Ombudsman Program coordinated and held several outreach events within the region targeting increased implementation of rotational grazing and pasture management BMPs. Seven acres of forest buffers were completed in 2023. **2022**: Phase 1 of BMP verification identified 181 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.5H*	Implement more pasture management BMPs	**Prescribed grazing – 4,600 acres** **Forest buffers on fenced pasture corridor – ~~25~~ 250 acres** **Grass buffers on fenced pasture corridor – ~~25~~ 59 acres** **Pasture Alternative Watering - 11,200 acres**	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	Huntingdon County Ag landowners who raise horses, dairy, beef and other pasture grazing animals	2022-2025	See 4.5B	Landowner education	CBF grant	6 – additional Ag Planners 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Prescribed grazing $540 per acre: $2,484,000 total FB Buffer with Exclusion $10,500 per acre: $262,500 total GB Buffer with Exclusion $2,750 per acre: $68,750 total	**2024:** Existing pasture management BMPs were reported to PracticeKeeper in 2024 as HCCD conducted site visits on farms and verified existing practices. New pasture management BMPs are proposed through ACAP for future implementation, see action item 1.7. **2023:** PA Ombudsman Program coordinated and held several outreach events within the region targeting increased implementation of rotational grazing and pasture management BMPs. 1,369 acres of prescribed grazing were verified or installed in 2023. 0 acres of forest buffers were installed in 2023. but a 13 acre planting is planned for spring 2024 15.97 acres of grass buffers were installed in 2023. **2022:** Huntingdon County AG BMPs is a GG grant that implements AG BMPs (mainly rotational grazing systems) on farms in Huntingdon County. BMPs include fence, watering systems, stream crossings, riparian buffer plantings, roof runoff structure, streambank fencing etc. Partners for the project include NRCS and HCCD. HCCD is about 75% completed with the project. Phase 1 of BMP verification identified 164 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing. Pasture Alternative Watering increased by 1,000 acres from 2020 to 2021 progress in CAST.
4.6(B)*	Riparian buffer and re-forestation BMPs	**350 riparian forest buffer acres – 50 new buffer acres; Need to recredit additional acres lost since 2010** **85 riparian grass buffer acres –60 new buffer acres; Need to recredit additional acres lost since 2010** **15 acres – urban forest buffer** **2 acres – urban tree canopy** **40 acres – urban forest planting** **20 acres - non-urban tree plantings**	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	Landowner partnerships, landowner education, volunteer acceptance of buffer plantings, buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment Lack of technical assistance to conduct landowner outreach, implementation, and maintenance of proposed projects	Materials Mapping	Budget available to be determined Utilize PFBC incentive program to pay landowners for fishing access	6 – additional Ag Planners to provide TA and ag planning 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Forest Buffer $10,000 per acre: $650K total Grass Buffer $2,500 per acre: $150K total Forest Planting $10,000 per acre: $400K total Tree Canopy $5,000 per acre: $10K total	**2024:** Blair County implemented a 1.5 acre buffer that was funded through a NFWF grant and private funding. Implemented 3.56 acres of buffers through the Blair County Riparian Buffer Incentive Program. WPC NFWF INSR grant- See 1.1c **2023:** Blair County has been reporting grassed waterways and riparian buffers identified through the remote sensing effort. HRG assisted with verification for several days in the county and reported field verified BMPs into the PK 3rd party module for inclusion into the county dataset. Riparian Forest Buffer – Blair and Freedom Township – 2 acres – Completed November 2022. Riparian Forest Buffer – Allegheny Township – 1.5 acres – proposed for Fall 2023. **2022**: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported. BCCD, buffer planned for Maple Hollow Townhouses and is in progress to be installed by the end of 2023, A 2-acre riparian buffer was established this Fall at the Newry Lions Club. The Conservation District is serving as an implementation partner for the Newry Lions Club to complete their work. They received funding through DCNR/WPC. Also, at this site in June they completed a stream bank stabilization project.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.6(C)*	Riparian buffer and re-forestation BMPs	**174 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010** **113 riparian grass buffer acres –100 new buffer acres; Need to recredit additional acres lost since 2010** **10 acres – urban forest buffer** **5 acres – urban tree canopy** **2 acres – urban forest planting** **~~56~~ 72 acres – agriculture tree planting** **~~50 acres – forest harvesting practices~~**	CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag Land – Chesapeake Bay Portion	2022-2025	See 4.6B Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program on the order of $4K per acre payment to landowner or to offset cost of hiring a contractor to maintain the buffer.	Materials Mapping	Budget available to be determined	3 – additional Ag Planners to provide TA and ag planning 2 – additional FTE environmental technician	$390,000 per year $260,000 per year Forest Buffer $10,000 per acre: $200K total Grass Buffer $2,500 per acre: $250K total Tree/Forest Planting $10,000 per acre: $580K total Tree Canopy $5,000 per acre: $25K total Forest Harvesting $60 per acre: $3K total	**2024:** Cambria County has entered Grassed waterways and other BMP's into Practice Keeper as part of plans. WPC NFWF INSR grant- See 1.1c **2023:** Cambria County has been reporting grassed waterways and riparian buffers identified through the remote sensing effort. HRG assisted with verification in the county and reported field verified BMPs into the PK 3rd party module for inclusion into the county dataset. **2022**: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.6(F)*	Riparian buffer and re-forestation BMPs	**305 riparian forest buffer acres – 30 new buffer acres; Need to recredit additional acres lost since 2010** **45 riparian grass buffer acres –20 new buffer acres; Need to recredit additional acres lost since 2010** **23 – Agriculture Tree Planting** **~~40~~ 20 acres – urban forest buffer** **10 acres – urban tree canopy** **1 acre – Urban Forest Planting** **150 acres – Forest Harvesting Practices**	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	See 4.6B Buffer plantings are becoming more expensive, must increase dollars per acre provided.	Materials Mapping	Budget available to be determined	6 – additional Ag Planners to provide TA and ag planning 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Forest Buffer $10,000 per acre $700K total Grass Buffer $2,500 per acre: $50K total Tree/Forest Planting $10,000 per acre: $240K total Tree Canopy $5,000 per acre: $50K total Forest Harvesting $60 per acre: $9K total	**2024:** 8 acres of riparian forested buffer were completed in 2024. WPC NFWF INSR grant- See 1.1c **2023:** The County has been reporting grassed waterways and riparian buffers identified through the remote sensing effort. **2022**: Phase 1 of BMP verification will identified 243 potential hits for grassed waterways in Fulton County. Additionally, analysis will analyze forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.
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** **~~65~~ 150 riparian grass buffer acres –30 new buffer acres; Need to recredit additional acres lost since 2010** **~~24~~ 120 acres – Agriculture Tree Planting** **~~40~~ 20 acres – urban forest buffer** **~~30~~ 80 acres – urban tree canopy** **10 acres – Urban Forest Planting** **850 acres – Forest Harvesting Practices**	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering, Huntingdon Borough Tree Commission, Juniata River Blueprint Community, Juniata College, Mount Union Borough	Huntingdon County Ag Land	2022-2025	See 4.6B	Materials Mapping	Budget available to be determined	6 – additional Ag Planners to provide TA and ag planning 3 – additional FTE environmental technician	$780,000 per year $390,000 per year Forest Buffer $10,000 per acre: $500K total Grass Buffer $2,500 per acre: $75K total Tree/Forest Planting $10,000 per acre; $340K total Tree Canopy $5,000 per acre: $150K total Forest Harvesting $60 per acre: $51K total	2024: See 1.1c and 1.7 Chesapeake Conservancy will be planting a new buffer on the WPC completed Herod Run Stream restoration project site in Summer of 2024. Clearwater Conservancy applied for a $99,000 DCNR C2P2 grant to fund stream buffer implementation projects in multiple Counties including Huntingdon County. The conservancy will also be planting two acres of buffers on Halfmoon Creek as part of a larger project that spans both Centre and Huntingdon County. WPC NFWF INSR grant- See 1.1c 2023: The County has been reporting grassed waterways and riparian buffers identified through the remote sensing effort. HRG assisted with verification in the county and reported field verified BMPs into the PK 3rd party module for inclusion into the county dataset. In 2023, 16.5 acres of grassed waterways were implemented in the county. 2022- Huntingdon County AG BMPs is a GG grant that implements AG BMPs on farms in Huntingdon County. BMPs include streambank fence, watering systems, grazing plan implementation, and a silage leachate system. We are about 85% completed with the project. HCCD completed a Water Quality Improvement Project grant that included the construction of a roofed manure stacking area for a turkey operation where field stacking had previously been utilized. Partners for both grants include NRCS and HCCD. Spruce Creek Stream Restoration is a GG grant (held by Western PA Conservancy) that was completed in fall 2022 and included stream restoration and tree planting along Spruce Creek in Huntingdon County. Partners include PFBC and the Little Juniata River Association. DEP Growing Greener - Prioritizing Forested Buffer Incentives - Tier 1 and 2 Counties, Huntingdon, Juniata, and Dauphin - NRCS Codes: 560/575/340/382/561/468/516/367/558/578/580/620/645/360/313/614 - Conservation Districts and NRCS, This project will pickup landowner cost-share for NRCS practices if a buffer is installed, we also pay for site prep and maintenance of buffers. We have 12 projects, still looking

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.7	Wetland restoration implementation on marginal production ag land	~~26~~ 50 acres of Wetland Restoration (B) 28 acres of Wetland Restoration (C) ~~18~~ 40 acres of Wetland Restoration (F) ~~14~~ 70 acres of Wetland Restoration (H)	Conservation Districts, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension, Watershed Organizations	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022 –2025	Willing landowner; appropriate siting, design, and construction for successful restoration result Lack of technical assistance for landowner outreach and agriculture planning to identify potential site locations Lead time it takes to secure projects can take years	Landowner outreach		11 – additional FTE environmental technician 7 – stream/wetland biologist	$1,430,000 per year $980,000 Wetland Restoration $30,000 per acre: $2.58M	**2024:** Blair: No Update. Cambria: No Update. Fulton: No Update. Huntingdon: No update. HRG has been utilizing existing maps and outreach to determine potential locations for wetland restoration projects. From there HRG plans to develop a regional grant application for the SRBC Consumptive Use Grant. **2023:** HRG has been working with HCCD to create a plan for the Black Farm wetland project. HCCD has been working with WPC and USFWS to determine what has been completed and what is yet to be done. If HCCD takes the lead on the project, a SRBC funding application will be developed in the fall of 2023. **2022**:
4.8	Stream Restoration (Urban and Agriculture)	31,240 (~6 mile) Linear feet Urban Stream Restoration, ~~3,000~~ 5,000 Linear feet Ag Stream Restoration (B) ~~8,400~~ 1,000 Linear feet Urban Stream Restoration, ~~4,000~~ 10,000 Linear feet Ag Stream Restoration (C) ~~3,000~~ 1,000 Linear feet Urban Stream Restoration, 10,000 Linear feet Ag Stream Restoration (F) ~~3,000~~ 1,000 Linear feet Urban Stream Restoration, ~~4,000~~ 31,000 Linear feet Ag Stream Restoration (H)	CBF, Chesapeake Conservancy, TU National, PFBC Stream Restoration Team, NRCS, Conservation District, Planning Commission, Municipalities, ISC, Watershed Organizations, Trust for Tomorrow, WPC, TU JK Chapter	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022 – 2025	Design/permit/construction cycle seems to work in two-year increments, there is an assumption that eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field, adjust quantitative goal down and ensure buffers are in place Lack of funding to cover engineering design	Design/GP-1 permit assistance		Design, permit, construction services 7 – Municipal Engineers (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2) 11 – FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3) 7 – stream biologists (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2)	Urban -Assume $900/LF - $41.1 M; Ag - Assume $400/LF -$8.40 M $980,000 per year $1,430,000 per year $980,000 per year	**2024:** Blair: 3,005 LF of stream restoration was completed along Gillans Run in Duncansville Borough/Allegheny Township. The FTWSA Project was completed, restoring a total of 2,400 LF along the Frankstown Branch Juniata River and 200 LF on McDonald Run in Freedom/Blair Township. WPC implemented a 870 LF stream restoration project along Poplar Run. A project stabilizing 245 LF of streambank on Blair Gap Run in Allegheny Township and a project stabilizing 365 LF of streambank on Poplar Run in Newry Borough is proposed for Fall 2024 construction. Another project stabilizing 1,000 LF of streambank on Canoe Creek is proposed for Spring/Summer 2025 Construction. Two streambank projects completed with NFWF-INSR funding (Leamer Property 291 L.F. along Clover Creek and Seven Falls Angler Club 1,000 L.F along Clover Creek) Urban and Ag stream restoration added to Phase I SWMP for further consideration in Phase II Cambria: No Update. Fulton: Additional 1,000 linear feet of stream restoration was completed in 2024. GGG received in 2024 for design and permit of additional linear feet of stream restoration. Huntingdon: The Western PA Conservancy implemented two stream restoration projects including 1,475 feet restore along Warriors Mark Run and 3,781 feet along Herod Run. **2023:** Fulton: 4,000 linear feet of stream restoration was completed in 2023. Blair: The Western Pennsylvania Conservancy secured $114,255 through a Growing Greener Grant to implement stream restoration in the Poplar Run Watershed. The Trust for Tomorrow secured $131,754 through ISC funding for their FTWSA Stream Project. They were also awarded a BCCD Buffer Grant to Conduct riparian buffer plantings on all new floodplain areas of the re-aligned channel; enhance existing riparian buffer where sparce; install live stakes on areas of high bank stress; sow specialized seed mixes on potential wetland areas and

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.9	Implement more barnyard runoff control/loafing lot management	~~30~~ 60 acres of barnyard runoff controls (16 acres reverified), 1 acre loafing lot management, Work with GIS department to identify barnyards within 150 feet of stream for prioritizing (B) ~~5~~ 18 acres of barnyard runoff controls (2 acres reverified), 2 acres of loafing lot management, 100 acres of agricultural drainage management (C) ~~10~~ 50 acres of barnyard runoff controls (2 acres reverified), 2 acres of loafing lot management, 29 acres of agricultural drainage management (F) ~~40~~ 80 acres of barnyard runoff controls (10 acres reverified), 5 acres of loafing lot management, 30 acres of agricultural drainage management (H)	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022 –2025	Landowner buy-in and project development/funding Lack of Technical assistance to support agriculture planning and implementation Lack of funding to cover engineering design Increasing construction costs are cancelling NRCS contracts	Engineering Support		21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6) 11-FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3) 11 - FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)	$2,730,000 per year $1,540,000 per year $1,155,000 per year Barnyard Runoff Control $175K per project, assume 1 acre per project ($9.625M) Agriculture SWM $10,000 per acre ($1,590,000)	**2024: Blair is continuing to explore project opportunities. We are currently working with 5 producers to address barnyard runoff. 3 of these farms are in various stages of planning and design and 2 are under construction. We continue to look at the ACAP funding program to assist in funding projects.** **Cambria: Funding is planned to be applied for to help fund a 10,000 sq foot HUA and manure stacking structure.** **Fulton: EQIP/ACAP projects are under construction with new HUAPs and barnyard runoff controls on two operations (Palmer & Kint). ACAP dollars are being used to assist ag operators with out-of-pocket expenses, 90-100% depending on the practices being installed. A proposed HUAP project was approved to receive technical assistance through DEPs TAP. Larson Design Group will be assisting with survey & design. (G. Richards)** **Huntingdon: See 1.7.** **2023: Current County ACAP programs are progressing and the majority of the projects that will be constructed over the next several years will be barnyard runoff/loafing lot management projects.** **2022: Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. CAST continues to limit the number of opportunities for this BMP.** **Blair County is continuing to explore project opportunities.** **Cambria County: utilized 2022 CAP Grants to fund a 2000 sq.ft. roofed HUAP. Final walkthrough with contractor is took place in August of 2022.**

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.1	Additional animal waste management BMP implementation for livestock	~~10,000~~ 15,000 new AUs of animal waste management systems (B) 2,800 new AUs of animal waste management systems (C) 10,000 new AUs of animal waste management systems (F) ~~10,000~~ 15,000 new AUs of animal waste management systems; 362 AUs of animal mortality compost systems (H)	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022 –2025	Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value for small farms; readiness to plan/implement projects when outreach efforts result in willing landowners Lack of funding to cover engineering design			21 – additional Ag Planners to provide TA and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6) 11-FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3) 11 - FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)	$2,730,000 per year $1,540,000 per year $1,155,000 per year Animal waste management system $175,000 per project, assume 100 AUs per project $57.4M in total	**2024:** Blair County has 4 waste storage facilities/manure stacking sheds funded under ACAP. These storages are planned to hold manure for 828 AU's. We have an additional 5 systems in various stages of planning and design. These storages are planning to store manure for an estimated 2,111 AU's. Cambria: See 10,000 sq ft structure comment above in 4.9. Funding for two additional grazing systems is planned to be applied for, these systems will mitigate the need for a waste storage facilities. Fulton: Two EQIP/ACAP projects are under construction with manure storage facilities being installed on two of the larger dairy operations in the county (Palmer & Kint). Huntingdon: See 1.7 **2023:** Current County ACAP programs are progressing and the majority of the projects that will be constructed over the next several years will be barnyard runoff/loafing lot management projects that will also incorporate waste storage facilities. In addition, Blair County is utilizing LFT outreach visits to target poultry operations and importers to identify projects to implement poultry waste storage facilities. **2022**: BMP Verification Phase 1, shows the potential to report an additional 52 animal waste storage facilities in Blair County, 4 in Cambria County, 58 in Fulton County, and 53 in Huntingdon County, currently not reported through PracticeKeeper. Field Verification will need to occur on each storage system. Blair County applied to Growing Greener for technical assistance to support 4 manure storages. Huntingdon County: Large project opportunity in Warriors Mark Run. Finishing stacking shed for a

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.11*	Urban Stormwater Management, Non-Regulated (MS4) Communities	**Runoff Reduction Performance Standard – ~~47~~ 80 (F), ~~13~~ 250 (H), 80 (C) Acres treated** **Stormwater Treatment Performance Standard – ~~3~~ 0 (H) acres treated** **Wet Ponds and Wetlands – 138 (B), ~~90~~ 5 (C), ~~75~~ 5 (F) Acres treated** **Advanced Grey Infrastructure – 2,600 (B) Acres treated** **Bioretention – 5 (B) 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)**	Planning Commission, ISC, Municipalities	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion Fulton County Developed areas Huntingdon County Developed areas	2022-2025	Coordination/ training for municipal staff, FieldDoc batch upload opportunity, non-MS4 engagement (what's in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present) Implement existing ordinances at local municipal level Catalogue existing BMPs that fit into this category and newly built ones	Reporting platform		18 Summer interns for reporting and verification 7 – Municipal Engineers 4 – municipal planner	$180,000 – per year $980,000 per year $520,000 per year $5 M overall project budget	**2024:** All Counties: Efforts in 2025 are planned to hold discussions with the Municipalities' engineers across the Southern Alleghenies to gauge need and interest in urban BMPs that could be funded through the CAP. Fulton: The County has an opportunity to implement a new watershed implementation plan late in 2024. From this plan, potential urban BMP projects have been identified in McConnellsburg Borough that could be future CAP projects. **2023:** no progress to date. **2022:** no progress to date.
4.12*	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	PRP Plan implementation by end of current permit term **Bioretention – ~~77~~ 82 acres treated** **Dry Ponds – 3 acres treated** **Stream Restoration – 17,940 LF (part of total stream restoration goal)**	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission, Engineering Consultants	Blair County MS4 Municipalities	2022-2023	Municipal capacity to implement plans (technical, financial) Develop a grant funding source just for MS4 communities so they are not competing against all stakeholders. Need larger sources of funding. Land available to implement projects. Expanded flexibility to work	Municipal engineer design/permit, construction readiness	Each Muni is contributing percentage cost to help fund projects, stormwater fees do exist	2 – Municipal Engineers 1 – municipal planner	$280,000 per year $130,000 per year Bioretention $500,000 Dry Ponds $30,000	2024: Blair County continues to implement PRP BMPs and to date has reduced 1,032,038.20 lbs./yr. of sediment. Approximately 380,000 lbs./yr. of sediment must be reduced to meet the ISC's PRP Reduction Requirement. 2023: Blair County continues to implement PRP BMPs and to date has reduced 808,351.36 lbs./yr of sediment. Approximately 600,000 lbs./yr. of sediment must be reduced to meet the ISC's PRP Reduction Requirement 2022: Blair County continues to implement PRP BMPs to date 85,661lbs of sediment has been reduced. An additional 700K lbs. of sediment must be reduced to meet the Intergovernmental Stormwater Committees joint PRP allocation.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.13	Conservation Landscaping/Turf to Meadow Conversion	Promote new program and enable one large tract landowners' participation **140 new acres of Conservation Landscaping (B)** ~~50~~ **5 new acres of Conservation Landscaping (C)** ~~60~~ **5 new acres of Conservation Landscaping (F)** ~~50~~ **5 new acres of Conservation Landscaping (H)**	DCNR, Chesapeake Conservancy, municipalities CBF, Conservation District, Planning Commission, ISC, Watershed Organizations	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion Fulton County Developed areas Huntingdon County Developed areas	2022 - 2025	Landowner education and acceptance Existing mowing ordinances or weed ordinances may be a challenge in some communities	Planting plan assistance		4 – FTE Municipal Planner 11 – additional FTE environmental technician	$520,000 per year $1,430,000 per year $2,500 per acre meadow à $750,000 budget for all	**2024:** WPC will be completing a 1.6 acre turf lawn to meadow conversion project in 2023 funded by Growing Greener. This is the final phase of the Poplar Run stream restoration project that was completed in 2023. Partners for Fish and Wildlife and BCCD were partners on the project. Conservation landscaping added to Phase I SWMP for further consideration in Phase II. Cambria: No progress to date. Huntingdon: No progress Fulton: CAP funding will be utilized to implement Conservation Landscaping in Phase 1 of the Tall Timbers Demonstration Project located at the District's office campus. Phase 1 will result in 2.92 new acres of conservation landscaping. District intends to allocate 2025 CAP funds to complete Phase 2 of the demonstration project; additional conservation landscaping will be installed in this phase. 2023: No progress to date. **2023:** No progress to date.
4.14	Impervious surface reduction project	Identify a flood prone area that could be converted to a park or open space **5 – acres Impervious Surface Reduction (B)**	Planning Commission, eligible municipalities	Blair County	2022-2025	Lack of local interest, property purchase/donation	Mapping	Available budget to be determined	4 – FTE Municipal Planner Design, permit, construction	$520,000 per year $287,300 for impervious surface reduction	2024: HRG conducted outreach in to Blair County Municipalities and County Planning in 2024 to identify future projects for impervious surface removal. As of August 2024, no potential projects have been identified, but the outreach to Municipalities has made them aware of the CAP initiative. As part of the ordinance updates that follow adoption of new comprehensive plans, we are encouraging regulation that eliminates any impervious surface that does not have direct use, such as striped areas in parking lots, excessive-width aisles, underground SW facilities that can be accommodated on the surface with modern BMPs, etc. 2023: Discussion with municipalities continues for impervious surface reduction. 2022: Action item #20 of the Hazard Mitigation Plan was updated regarding the flood buyout program sparked renewed interest and municipalities are seeking interested parties to participate in the program. This ties into the CAP item on converting impervious cover to parkland.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
4.15*	Continue dirt and gravel road program for each county Conservation District	~~21 miles~~ 50,000 LF (9.5 miles) overall restored through past projects and future projects (B) ~~21 miles~~ 13,000 LF (2.5 miles) overall restored through past projects and future projects (C) ~~26 miles~~ 30,000 LF (5 miles) overall restored through past projects and future projects (F) ~~88 miles~~ 20,000 LF (4 miles) overall restored through past projects and future projects (H)	Blair County Conservation District Cambria County Conservation District Fulton County Conservation District Huntingdon County Conservation District	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	Ongoing	Continue D&G Road program funding Cambria – increase DGLVR education opportunities by 5% over 5 years Education of municipalities can be challenging, need more involvement from all municipalities Expand Dirt and Gravel Road eligible practices to include farm lanes	Education, technical assistance, project oversight Blair County using NFWF Grant for private farm lane improvement implementation	$1.6 million since 1997 $1.75 million since 1997 $2.0 million since 1997 $4.0 million since 1997	4 – FTE Clean Water Coordinator for Conservation District	$520,000 per year Dirt and Gravel Roads $40 per foot TBD	**2024:** BCCD completed two LVR Projects in 2024 and anticipate another DGR Project to be implemented by Spring 2025. Continuing to assess additional DGLVR sites for potential projects. Cambria: Cambria - Low Volume Road drainage improvement projects. 2022 1 project 10,081ft - 2023 1 project 5143ft - 2024 1 project 6880ft Fulton: 2.39 miles of roadway have been repaired in 2024. Huntingdon: For the 2024 construction season HCCD had 7 projects total, 5 DGR and 2 LVR that were completed. 11,378ft was the total length of all projects combined along with 1 stream crossing replacement done **2023:** Fulton: 2.044 miles of roadway have been repaired in 2023. One more active project that should be complete in early 2024. BCCD has two Dirt and Gravel road project to be completed by September 30, 2023 and accessed additional Dirt & Gravel and Low Volume Road sites for potential projects. **2022**: Blair County: completed a low volume road and assessed another Dirt and Gravel Road project, continues to receive approximately $180K per year to support implementation. Cambria County: completed a project for a low volume road, and has an additional contract for more work on the same road. Includes stream crossings, drainage work. All data entered into DGLVR GIS system. Fulton County: active projects for 3-4 locations. May have issues spending low volume roads, due to more stringent stream crossing rules. Huntingdon County - accepting applications through the end of August, expect to do drainage and

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
~~4.16*~~	~~Work with PennDOT and local municipalities to reduce frequency of mowing road ditches and along roadways~~	~~Educate local municipal leaders and work with PennDOT to address state owned roads on the importance of keeping higher vegetation along roadways to prevent erosion and increase nutrient uptake.~~	~~Local Municipalities, DEP and PennDOT~~	~~Blair Countywide~~ ~~Cambria Chesapeake Bay Portion~~ ~~Fulton Countywide~~ ~~Huntingdon~~	~~2023~~	~~PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay Program will need to assist in the education of PennDOT.~~			~~4 – FTE Clean Water Coordinator for Conservation District~~ ~~4 – FTE Clean Water Coordinator for Planning Commission~~	~~$520,000 per year~~ ~~$520,000 per year~~	~~**2023**: No progress to date.~~ ~~**2022**: No progress to date.~~
4.17	Private Funding & Grant Administration	Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders, continue to work with partners to facilitate additional funding	Existing project implementer networks	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2023	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known) Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration	Financial services		4 – FTE Conservation District Grant Manager 4 – FTE Planning Commission Grant Manager 8 – staff accountants	$520,000 per year $520,000 per year $560,000 per year	**2024:** No progress to date. **2023:** HRG has worked to refine PennVEST applications for agricultural projects that can supplement existing funding programs. **2022**: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases adoption of conservation practices. A potential grant application would bolster farm visits in all counties to increase the adoption of Conservation Practices.
Priority Initiative 5: Research, Education, and Training: Blair, Cambria, Fulton and Huntingdon County											
5.1A	Incorporate existing water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative	Successful data input/acceptance by ALLARM program by end of 2021 Work with Foundation of PA Watersheds to establish their data into CMC Work with BCCD and Altoona Water Authority to report data Work with water and sewer authorities that monitor to include data in the Chesapeake Bay Model and/or CMC	ALLARM, Local watershed groups, Pa Foundation of Watersheds, BCCD, Altoona Water Authority, Ridge and Valley Stream Keepers, Stroud, Clearfield Creek Watershed Association, Juniata College	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022-2023	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it Explore ways to present local data working with Juniata College	Data QAQC and training Data Input Monitoring Support		Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/environmental scientist	N/A $40,000 $1,430,000 per year $980,000 per year	**2024:** BCCD has redeveloped a Volunteer Stream Monitoring Network to be launched in spring 2025 at which time will begin collecting data on select Blair County waterways. Cambria: No Update. Fulton: No Update. Huntingdon- Additional water quality monitoring in Standing Stone and Shavers Creek was completed in late 2023. The Little Juniata Watershed Association is conducting water quality monitoring on The little Juniata and Spruce Creek throughout 2024. **2023:** Capacity changes with the Program Coordinator and Conservation Districts has pushed the convening of the Watershed Specialists. We will reevaluate in 2024 if this should be a priority at the County level or if it should be scaled to the State or Federal level. **2022**: ALLARM is in the process of developing citizen scientist monitoring data collection protocols to assist with stream health data collection. Should the protocol be approved, it will be shared with all Counties

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
5.1B	Initiate additional water quality monitoring sites that promote long-term trend evaluation at key locations	Location identification, financial and volunteer budget analysis, and initial landowner communication by end of 2021 CAST-21 acknowledgement of our data Map existing monitoring locations Expand monitoring based on Corridors of Opportunity area monitoring gaps Have DEP Re-assess Spring Run Fulton County	ALLARM, Keystone Water Resources Center, Local University, Altoona Water Authority	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide, Specifically Fort Run	2023-2024	Land access, expanded volunteer need, equipment/materials budget, Consistent data collection, QAQC continuation Explore ways to present local data working with Juniata College			Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/environmental scientist	N/A $40,000 $1,430,000 per year $980,000 per year	**2024:** St. Francis University will conduct water quality monitoring on Sugar Run in 2024 and 2025 to obtain updated reports to plan for future AMD BMPs to improve the watershed. **2023:** HRG met with Penn State Altoona, Mt. Aloysius, and St. Francis to talk about current water quality programs and efforts. Mt Aloysius and St. Francis's current program structure would allow for the integration of long term monitoring into class curriculum and extra curricular work but funding. Project distance, and student manpower are limiting factors in the successful implementation of this initiative. Current CD staff time is limited and not feasible for long term monitoring. Project specific, pre and post project installation monitoring is a more feasible option to show success of BMP implementations. HRG will continue to work with university and non-profit partners to move this goal forward. **2022**: In the fall of 2022, HRG will convene the Watershed Specialist to identify the largest "gaps" of water quality monitoring data, develop strategies to comprehensively incorporate new data to support CAP efforts. Blair County: BBCD is doing water quality monitoring currently within Brush Run along Lakemont Park and the Reservoir. They have two stations out at this time to collect Turbidity, Specific Conductivity, temperature, pH, and dissolved oxygen. Monitoring has been taking place over the past 2-3 years. Data was collected prior to BMPs being installed so there is baseline data to compare to data collected during and after BMP implementation. Cambria County: has data loggers out in various watersheds across the county. Did some monitoring on the WB Susquehanna. Huntingdon County: Finished up 2022 WQ monitoring for district and Conservancy monitoring over 20 different site locations. Will send data to PA DEP soon. 2021 WQ data was accepted by PA DEP after QAQC. Data includes mainly impaired watersheds.

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress – SOUTHERN ALLEGHENIES

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(s) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2024)
							Technical	Financial	Technical	Financial	
5.2	Create new and enhance existing local watershed associations for short-term success and long-term sustainability	Develop new or reestablish existing watershed associations to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation	ALLARM, Keystone Water Resources Center, Local University, Tri-Run Watershed Association (Enhance), Little Juniata River Watershed Association, JK TU Chapter	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	Ongoing	Willing volunteers and leaders to establish and run watershed organizations to be successful and support with implementation Enhance the capacity of local watershed associations for short-term success and long-term sustainability	Social media shares Project development support		4 – FTE Clean Water Coordinator for CD 4 – FTE Clean Water Coordinator for Planning Commission	$520,000 per year $520,000 per year $5000 per organization to produce promotional materials (hats, shirts, stickers) for members à $60,000 per year	**2024:** Blair District continues to work closely with the John Kennedy Chapter of TU for work related to the identification and completion of stream restoration/stabilization/habitat projects (two completed/scheduled in 2024 Newry Lions Club Property Phase 2 - Poplar Run and the Gill/Fisher Project on Blair Gap Run). Blair District also had renewed contacts with both JKTU and the Little Juniata River Associiation in an effort to reinvigorate our Volunteer Stream Monitoring Program. District staff presented to the Young Professionals Committee of the Blair County Chamber in June of 2024 regarding our voluneteer efforts for monitoring and for work at NatureWorksPark. MAster Gardeners of Blair County continue to work at NatureWorksPark to promote and enhance pollinators and native plants. Cambria - Watershed Specialsist continues to work with the Clearfield Creek Watershed Association on AMD project work. Fulton: No progress to report, there are no Watershed Associations in Fulton County Huntingdon: No Update, progress will resume once the Watershed Specialist gets up to speed for the role. . **2023:** HRG has provided outreach to local watershed organizations with the goal of assisting interested organizations develop a local live staking program that can assist with small riparian buffer plantings. HRG will continue outreach and support into 2024 **2022**: Cambria County: District has been assisting Clearfield Creek Watershed Association with AMD project work. Huntingdon County: Little Juniata River Watershed Association has started to meet more