Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Agriculture Priority Initiative 1- Planning, Manure Management, and Fertilizer Application

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 # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2024) *add new 2022 progress above the existing 2021 progress. Date each entry
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1.1	Develop Basic Manure Management Plans Core N	Develop 24,000 acres worth of plans for farmers.	MCCD Staff, Farmers, Penn State Extension	Countywide	2021-2025	New operations coming in and lack of cooperation.	Nutrient Management Planners	N/A	Additional Staff	$50,000	10/10/2024 – MCCD continues to write and develop MMP for operators who are in need of updates to existing MMP or new MMP.
1.2	Develop Ag Erosion and Sedimentation Plans	Develop 18,000 acres of Ag E&S plans for farmers.	MCCD Staff & Farmers	Countywide	2021-2025	Landowners that do not farm getting Ag E&S plans completed.	Conservation Planners	N/A	Advertisement to landowners.	$25,000	10/10/2024 – MCCD continues to write and develop Ag E&S Plans for operators who are in need of updates to existing Ag E&S Plans or new plans.
1.3	Expanded Nutrient Management Planning focusing on 4R's especially focusing on legume and manure N availability and the reduction of N Fertilizer.	Develop 10,000 acres worth of nutrient management plans for farmers.	MCCD Staff, Farmers, Penn State Extension, NRCS	Countywide	2021-2025	Convincing farmers that they are over-applying fertilizers.	Nutrient Management Planners	N/A	Training for farmers and staff about nutrients and how they affect crops and soil.	$10,000	10/10/2024- Plans are continuing to be developed for operations. There are 8 nutrient management plans 3 CAFOs and 3 CAO and 2 VAOs.
1.4	Demonstration Plots & Field Days	Compare yields for reduced fertilizer applications on a test plot of 5 acres.	MCCD Staff & Farmers	Countywide	2022-2024	The willingness of landowners and farmers to test a new idea.	Agronomy knowledge, MCCD Staff	N/A	Organization of field days	$5,000	10/10/2024- MCCD has a grant with two other counties to promote soil health and one way to do that is through soil health days.
1.5	Barnyard Runoff Controls	Install 3 acres of barnyard runoff control BMPs.	NRCS, MCCD Staff, Farmers	Countywide	2021-2023	None	Engineering and Inspection	$756,000	1 Engineer for design	$1,000,000	10/10/2024 There are 2 planned for construction for 2024.
1.6	Manure Storage	Install 5 acres of manure storage BMPs.	NRCS, MCCD Staff & Farmers	Countywide	2021-2023	None	Engineering and Inspection	$200,000	1 Engineer for design	$1,000,000	10/10/2024 There are 3 planned for construction in 2024.
1.7	Conversion of Cropland to Pasture	Establish 200 new acres of pastureland.	NRCS, MCCD Staff & Farmers	Countywide	2022-2024	Some landowners are unwilling to give up cropland and convert it to pasture.	Grazing Specialist	$108,000	None	$500,000	10/10/2024 MCCD has a Growing Greener grant to promote and install fencing and create new pastures, this grant is still on going in the county.
1.8	Watering Systems	Install 1 acre of watering system BMPs.	NRCS, MCCD Staff & Farmers	Countywide	2022-2024	None	Engineering and Inspection	$20,000	1 Engineer for design	$100,000	10/10/2024 MCCD has a GG grant to promote and install fencing as well as install watering systems in new and existing pastures.

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1.9	Stabilization of Animal Walkways and Travel Lanes	Install 1 acre of walkway and travel lanes BMPs.	NRCS, MCCD Staff & Farmers	Countywide	2022-2024	None	Engineering and Inspection	$64,000	1 Engineer for design	$500,000	10/10/2024 We have 2 planned for construction in 2024 through GG and 5 planned for construction in 2025 through CAP.
1.10	Work with Plain Sect Farmers on Plan Implementation	Install 24,000 acres of BMPs.	MCCD Staff Amish and Mennonite Farmers	Countywide	2023-2025	These farmers do not accept cost share from the government.	Engineering and Inspection	N/A	1 Engineer for design	TBD	10/10/2024- We have written a few plans for Amish and Mennonite farmers in this past year, we hope to expand in the future to figure out a way to implement projects and overcome the hurdle of funding.
1.11	Milk House Waste Systems	Install 2 milk house waste system BMPs	Farmers	Chillisquaque Creek Watershed	2023-2025	Plain Sect does not accept cost share from the government.	Engineering and Inspection	N/A	1 Engineer for design	TBD	10/10/2024 Only 1 Operation Needs Milkhouse Waste System. We only have 3 non Amish Dairy Farms left in the County
1.12	Establish Funding/Staff support to the Agricultural Community	Write plans and continue installation of BMPs for planned implementation. Establish demo plots and plan field days.	MCCD, DEP and NRCS	Countywide	2022-2024	Limited funding available.	MCCD Staff	N/A	2 Technicians and 1 Engineer	$250,000 per year	10/10/2024 MCCD continues to write plans needed for compliance and in those plans we have included operation specific BMPs to be installed in a timely manner.
1.13	Chesapeake Bay Inspection Program	Collect data on admin complete plans and review records for manure application rates (70 per year).	MCCD	Countywide	2021-2025	Limited time for staff.	Bay Staff	$65,500	None	$150,000 per year	10/10/2024 MCCD continues to meet its inspection goal set by DEP. Phase II and Phase I inspections are being completed.
1.14	Seek funding options for BMP Implementation	Utilize Growing Greener, REAP and EQUIP	MCCD and NRCS	Countywide	2021-2023	Limited funding is available.	MCCD Staff	$1,000,000	None	$500,000	10/10/2024 MCCD utilizes many funding sources. CAP, ACAP, and Growing Greener are all currently funding projects within the county.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Agriculture Priority Initiative 2- Soil Health

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2.1	Promote the Importance of Soil Health	Educating farmers on the importance of soil health to lead to increased cover crops and no-till practices.	NRCS, MCCD Staff, Farmers, and Farm Bureau	Countywide	2022-2024	Lack of interest among the farming community.	Staff with soil health and no-till knowledge	Grant	1 person with soil health and no-till knowledge	$5,000	10/10/2024- In a joint effort, the Montour, Luzerne, and Columbia County Districts have teamed up to promote soil health and bio nutrients in the soil.
2.2	Plant cover crops and provide incentive payments	Install cover crops on 6,000 acres of farmland	NRCS, MCCD Staff & Farmers	Countywide	2022-2024	Flexibility to pay for single species cover crops.	Staff with soil health and no-till knowledge	Grant	1 person with soil health and no-till knowledge	20,000-45,000/year	10/10/2024- The cover crop program continues as planned with the hopes of attracting more farmers. Drone seeding of cover crops is something that MCCD is focusing on in 2024 as well as 2025.
2.3	Educate and work with Plain Sect farmers on cover crops	Install cover crops on 6,000 acres of farmland	NRCS, MCCD Staff & Amish and Mennonite Farmers	Anthony, Derry, Limestone Townships	2023-2025	Travel and getting farmers to meetings is limited. They will not accept cost share from government.	Staff with soil health and no-till knowledge	Grant	1 person with soil health and no-till knowledge	$5,000	10/10/2024-We are having signups for cover crop programs.
2.4	Planting legume cover crops for next year's corn crop to reduce N fertilizer applications	Reduce nitrogen fertilizer applications on 4,000 acres of farmland	NRCS, MCCD Staff & Farmers	Countywide	2021-2025	Lack of research on amounts of Nitrogen available from cover crops.	Staff with soil health and no-till knowledge	Grant	1 person with soil health and no-till knowledge	$5,000	10/10/2024 MCCD continues to promote NBS and NMP as needed and provide education on the application rates being used vs what is being planned on in NBS and NMP. MCCD is part of a GG grant that is promoting the use of bio nutrients and fertilizer that utilizes the natural bio activity in the soil.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Agriculture Priority Initiative 3- Buffers

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3.1*	Increase Buffers on streams and roadside ditches	Install 165 acres of buffers on farms.	MCCD, DEP, NPC, NRCS, CREP, Pheasants forever	Countywide	2021-2024	Landowners' willingness to give up cropland as a buffer.	Botanists Arborists Biologists	As Needed	Botanists Arborists Biologists	$200,000	10/10/2024 MCCD will be applying for CAP funding to plant a buffer on the Beachel Farm in 2025.
3.2*	Provide an incentives-based program for buffers	Provide incentives for farmers to install buffers on farms.	DEP, PDA, FDA, MCCD	Countywide	2022-2024	Landowners' willingness to trust the program and give up cropland.	N/A	None	Land developer	$50,000	10/10/2024- None applied for yet.
3.3*	Utilize CREP Program for buffers and rental payments	Install buffers on farms with the use of the CREP program.	NRCS	Countywide	2022-2024	Landowners' concerns about the CREP program and the loss of cropland.	Biologist	None	Biologist	$300,000	10/10/2024- NRCS will not share information on CREP signups. MCCD does not usually involve itself in the CREP program.
3.4 *	Partnership with Private Sector for education and buffer establishment	Install buffers on farms and educate landowners in workshops.	MCCD, Private Sector	Countywide	2021-2023	Landowners' willingness to convert cropland to buffer.	Biologists Botanists and Arborists	None	Biologists Botanists and Arborists	$25,000	10/10/2024-No activity
3.5	Educate landowners maintenance of buffers	Control and monitor invasive species in acreage of buffers.	NRCS, MCCD Staff, Private Sector	Countywide	2022-2024	Landowners' willingness to cooperate and properly maintain buffers.	Invasive species knowledge and pesticide certification.	None	Field Days	$5,000	10/10/2024 When buffers are established by the district, maintenance is discussed and in some cases the district will pay for the maintenance of said buffer.
3.6*	Mandatory Buffer Ordinance	Install buffers as a result of a mandatory ordinance.	Townships, MCCD	Countywide	2023-2025	Enforcement of the ordinance in the county and guilt of telling landowners how to manage their land.	County Planning and Zoning to adopt an ordinance.	None	Ordinance developer and enforcement	N/A	10/10/2024-No activity
3.7	Grass hay strips along streams	Install 20 acres of hay buffers along streams on farms.	MCD, NRCS	Countywide	2022-2024	Landowner willingness to install buffer.	Crop Consulting	None	Crop Consulting	N/A	10/10/2024 MCCD writes Ag E&S Plans for farmers and if plans do not meet grass/hay strips are sometimes suggested to reduce soil deposition in streams (Mordan).
3.8	Streambank fencing	Keep cattle out/ limit access to 20 acres of the stream.	MCCD, NPC	Countywide	2022-2025	Plain Sect & Funding from the government.	Project planner	$100,000	Fence contractor	$50,000	10/10/2024 MCCD has 5 on going fencing projects funded by GG.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Agriculture Priority Initiative 4- Reporting and Tracking

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4.1	Use Practice Keeper and Field Doc to track results	Track results for CAP with plans and maps	MCCD	Countywide	2021-2025	Unknown projects completed by landowners are difficult to track.	Staff to record plans and track results	N/A	Additional Staff to manage records	$60,000	10/10/2024- We continue to use Practice Keeper to track plans, inspections, BMPs, etc. We use FieldDoc to calculate nutrient and sediment savings that a certain project would provide.
4.2	Track results to evaluate progress with load reductions	Reduce Nitrogen and phosphorus loading	MCCD	Countywide	2021-2025	Unknown projects completed by landowners are difficult to track.	Staff to track results	N/A	Additional staff to manage records	$60,000	10/10/2024- We have been tracking projects, plans, BMP verifications to count towards load reductions.
4.3	GIS Mapping for tracking project	Draw maps to show progress in each watershed	MCCD Interns	Countywide	2022-2024	Access to GIS mapping software.	Inters have GIS experience	N/A	GIS Software	Funding to purchase GIS software	10/10/2024 MCCD uses PracticeKeeper's and PA ONE STOP's GIS mapping to track progress in the county
4.4	Verify manure application records	Ensure farmers are following their plans	MCCD	Countywide	2021-2025	Will be very time-consuming.	Staff to complete inspections	N/A	None	None	10/10/2024- We have verified some records along with inspections/ plans, but there is still more work to be done.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Agriculture Priority Initiative 5- AgLand Preservation and Cropland Retirement

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5.1	Solar Panel development will take cropland out of production	Transition 6,000 acres of cropland into solar panels	Landowners and Energy Suppliers	Countywide	2021-2025	Loss of cropland and stormwater management	None	None	None	N/A	10/10/2024 Solar Panels are being installed in the county
5.2	Stormwater management on solar farms	Install 6,000 acres of stormwater management	MCCD, County Planning, Municipalities	Countywide	Ongoing	Maintenance and implementation	Engineers	None	Engineers	$500,000	10/10/2024 Solar Panels are being installed in the county. Stormwater management of the solar farms would be the responsibility of the company that is installing the panels. Permits through the CD are required.
5.3	Implement Ag Land Preservation Program	Protect 200 acres of farmland from development	PDA, MCCD, Montour County Commissioners	Countywide	2021-2025	Limited funding	Soil knowledge & legal advice	50,000	None	$500,000	10/10/2024 MCCD and the county are currently incumbering funds under the Farmland Preservation Program. Eugine Martin farm would be next on the list.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Partnerships Priority Initiative 1- Partners

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1.1	Have Penn DOT involved in various practices	Implement additional cover crop services and practices such as street sweeping	Penn DOT	Countywide	2022-2025	Lack of willingness or time to participate in the implementation	Street Workers	N/A	Designers	N/A	10/10/2024- We have not worked with Penn DOT much because we did not have the opportunity this year, We hope to include them in some future projects.
1.2	Work with NRCS on their programs in the county	Implement programs such as EQIP and CREP	NRCS	Countywide	Present- 2025	Farmer's lack of trust in CREP	NRCS Workers	N/A	Additional Programs	N/A	10/10/2024- We have worked with NRCS, but their updated privacy policy makes it difficult to gather information from them. They have designed a couple small practices for us.
1.3	Work with the PA Game Commission in the county	Plant food plots and partner with farmers	PA Game Commission	Liberty and Mahoning Township	2022-2024	Not abundant State Game Lands in the county and a lack of knowledge of projects	Game Commission Officers	N/A	More partnerships with them in the county	None	10/10/2024 - We have not had an opportunity or need to work with the PA Game commission in the past year, but we hope to work alongside them in the future.
1.4	Continue to work with PA Fish and Boat Commission in the county	Implement stream projects that include fish habitat structures	PA Fish and Boat, MCCD	Countywide	2022-2025	Lack of knowledge of their existing and additional projects	Project planning, project implementation	Varies	N/A	N/A	10/10/2024- We continue to work with PA Fish and Boat on the Design, Permitting, and Implementation of our stream projects.
1.5	Continue to work with US Fish and Wildlife in the county	Implement wetland construction and stream projects	US Fish and Wildlife, MCCD	Countywide	2022-2024	Lack of knowledge of their existing and additional projects	Project planning, implementation, and upkeep	Varies	None	None	10/10/2024- We continue to work with US Fish and Wildlife on our wetland projects. Over 50 acres of wetlands constructed since 2009. We hope to add more wetland projects in the future.
1.6	Continue to work with NPC	Continue working relationship with NPC which includes installing buffers, fish habitat, and tree plantings	NPC MCCD	Countywide	2022-2025	None	Buffer planting, fish habitat designers and implementers	N/A	None	None	10/10/2024- We continue to work with NPC through our partnership on projects throughout the county.
1.7	Have County Workers involved in implementation practices	Help implement, fund, organize and monitor implementation of CAP practices	Commissioners Zoning Planning Grounds Crew	Countywide	2022-2024	Lack of time or willingness to participate in implementation	Additional help to implement practices	N/A	Additional help to implement practices	N/A	10/10/2024We worked with Municipal and Borough Officials. Danville Borough on pollinator plantings and Valley Township on Bioswale and Fish Habitat for MS4. Currently working with Mahoning TWP to restructure an old stream project.

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Partnerships Priority Initiative 1- Partners

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1.8	Involve Montour Area Recreation Commission (MARC) in various activities	Work with MARC on public education, use of natural lands in Montour County, and through the GIS software program	MARC, MCCD, County	Countywide	2022-2025	None	Help to educate the public	N/A	Help to implement practices	N/A	10/10/2024- We have talked and met with MARC to discuss potential projects and community events. We discussed the removal of fallen trees on Chillisquaque Creek.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Stormwater Priority Initiative 1- Stream Restoration

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1.1	Continue to Install fish habitat structures on Ag Impaired Streams and reconnection of the floodplain where possible	Reduce erosion on streambanks with the instillation of structures on 20,000 linear feet of streams.	MCCD Staff, PA Fish& Boat, DEP, NPC	Chillisquque creek and Mahoning creek watersheds.	2021-2025	Obtaining funding to meet demand of fish habitat structures and eroding streams.	Design and Installation	Varies	None	$75,000/ year	10/10/2024- We have continued to implement fish habitat structures in streams. This year we have completed 3 projects and we have at least 1 more scheduled for next year.
1.2	Continue to monitor macroinvertebrates on Chillisquaque Creek	Track progress of stream health and disclose existing macro assessment data to DEP	Mike Bilger, MCCD Staff	Chillisquaque Creek Watershed	2021-2022	Finding a funding source.	Biologist with knowledge to ID macroinvertebrates	None	Mike Bilger	$2,500/ year	10/10/2024- We monitored the Chillisquaque Creek with Mike Bilger in the Spring of 2024.
1.3	Continue to monitor macroinvertebrates and wild brook trout on Limestone Run	Track progress of stream health. Disclose existing macro assessment data to DEP	Susquehanna University/NPC MCCD Staff	Limestone Run Watershed	2022-2024	Finding a funding source.	Biologists with knowledge to ID Fish and macroinvertebrates	N/A	Tracking of stream health.	$2,500 / year	10/10/2024- Interns did sampling of macroinvertebrates on various streams throughout the county. We track the results each year that it is done.
1.4	Organize Community Fallen Tree Removal Program where trees have fallen due to flooding and are creating bank erosion	Reduce erosion on streambanks by clearing brush from the stream.	MCCD Staff and Anthony and Derry Townships	Anthony and Derry Townships	2022-2025	Finding a funding source and dealing with limited resources.	Tree removal	None	Tree removal service.	$20,000 / Year	10/10/2024 There has been discussion on this topic with MARC, but no decisions or progress has been made. NO funding source.
1.5	Submit macro data for DEP review	Update integrated report yearly	DEP and MCCD	Chilly Watershed Limestone Run	2021-2025	None	Data	None	None	None	10/10/2024- We have the Macro data and have talked to DEP officials about the numbers. It has not been officially submitted for review.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Stormwater Priority Initiative 2- Flooding, Wetlands, and Stormwater BMPs

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2.1	Continue to restore and preserve wetlands	Increase infiltration and reduce runoff for 80 wetland acres	USF&W Service MCCD Staff Blue Acres Engineering	Countywide	2022-2024	Mark Roberts retirement from USF&W	Design and permitting	$150,000	None	$100,000 per year	10/10/2024 MCCD has put an extensive amount of wetland in the county and is currently looking to add more to that list.
2.2	Educate landowners on the impacts of stormwater on streams and methods to control stormwater	Promote stormwater management through workshops and meetings to lessen the impact on streams	MS4, MCCD, Municipalities	Countywide	2022-2024	Generating landowner interest and meeting attendance	Engineering, Hydrology	None	Engineering, Hydrology	$20,000 per year	10/10/2024 In the past year no progress has been made
2.3	Promote the installation of infiltration basins for private residences	Encourage provide landowners to install basins and other stormwater control methods	MCCD, MS4, Municipalities	Countywide	2022-2025	Landowner willingness to consider an infiltration basin	Engineering Hydrology	None	Engineering, Hydrology	$5,000	10/10/2024 MCCD has put in projects that met this goal in the past. Certain projects have failed. Further projects are uncertain.
2.4	Seek funding for and construction of infiltrations basins for landowners	Obtain funding to construct basins and other stormwater management practices	MCCD	Countywide	2022-2024	Landowners paying a match contribution	Sizing basins and design	None	Sizing basins and design	$10,000 per year	10/10/2024 MCCD has put in projects that met this goal in the past. Certain projects have failed. Further projects are uncertain.
2.5*	Update and Enforce Act 167 plan	Create a plan that addresses stormwater runoff and model ordinance for homeowners	County planning, townships, MCCD and DEP	Countywide	2022-2024	There is no funding available.	Act 167 planning	N/A	Act 167 Plan development	$300,000	10/10/2024 The Conservation District will look into putting in a CAP grant in the future to try and cover some of the costs to update the plan. Conversations will be had in the future with the county.
2.6	Continue to work with MS4 on stormwater BMP implementation	Reduce stormwater runoff and assist townships with plan implementation including bio-retention areas, rain gardens, and buffers	Townships, county planning, DEP and MCCD	Valley township and Mahoning township	2021-2025	None	Stormwater design	N/A	Engineer to design BMP structures.	None	10/10/2024 No update

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Stormwater Priority Initiative 2- Flooding, Wetlands, and Stormwater BMPs

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2.7*	Hazard mitigation and floodplain management	Limit impacts of flooding in developed areas	Townships and county planning office	Countywide	Ongoing	Enforcement and lack of knowledge of floodplain ordinances	Some ordinance knowledge.	N/A	Knowledge of floodplain ordinances	1 million	10/10/2024- We cannot report on the progress of the Planning office and the townships.
2.8	Prevent dumping near streams and roadside ditches.	Provide harsher punishments for those found dumping or littering near streams and roadside ditches.	PA State Police, Montour County	Countywide	2023 and beyond	Lack of time and resources to develop new laws with stricter punishments.	Litter laws in place	N/A	Stricter Punishments for dumping and littering.	$500,000	10/10/2024- We have not worked on this initiative yet but soon we hope to work with law enforcement and communities and try to reduce the amount of illegal dumping throughout the county.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Stormwater Priority Initiative 3- BMPs in Developed and Urban Areas

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							Technical	Financial	Technical	Financial	
3.1	Educate landowners on the importance and purpose of buffers	Install buffers in urban areas and educate landowners on the importance of buffers	MCCD	Urban Areas	2022-2024	Lack of interest among landowners in urban areas	Agronomist, Biologist, Botanist	None	Agronomist, Biologist, Botanist	$5,000 / Year	10/10/2024- We have spoken with landowners about buffers but We hope to have more public events and notifications about this topic in the coming years.
3.2	Develop a strategy to make buffers visually attractive to landowners by using pollinator mixes and flowering trees and shrubs	Develop appealing buffer designs and present them to landowners	MCCD, Private Sector	Urban Areas	2022-2024	Lack of public interest and knowledge of buffers	Buffer designs and education materials	None	Buffer designs and education materials	$5,000/ Year	10/10/2024- We have attracted landowners with a pollinator mix we provided to increase buffers and habitat. MCCD continues to utilize and maintain various pollinator buffers
3.3*	Develop an incentive-based buffer Program that pays for buffer establishment and maintenance	Give landowners an incentive to establish and maintain buffers on their property	MCCD/DEP	Urban Areas	2022-2024	Lack of a funding source for these programs	Buffer planting groups	None	Develop incentive program	$50,000/ year	10/10/2024- We developed a pollinator program that provides landowners with seeds at no cost, and we have been using the Keystone 10 Million Trees Program, we just have to focus implementation more on buffers in the future.
3.4	Mandatory Stream Buffer Program	Develop an ordinance to implement stream buffers	County Planning, MCCD, Municipalities	Urban Areas	2022-2024	Adoption of the ordinance and cooperation from landowners	Zoning	None	Program developer	$25,000 / year	10/10/2024- We have not had the chance to develop an ordinance or talk with the county about this.
3.5	Plant Buffers	Install buffers in urban areas	Private Sector	Urban Areas	2021-2025	Landowner willingness to participate	Agronomist, Biologist, Botanist	None	Planting, plans, and design developer	$10,000/ year	10/10/2024- Landowners and farmers have been willing to plant meadows, buffer strips, and stream buffers.
3.6*	Nutrient application reduction on lawns	Reduce fertilizer applications on lawns	Private landowners	Urban Areas	2022-2025	Lack of interest from homeowners	Nutrient requirements for lawns	None	Nutrient/ lawn specialist	TBD	10/10/2024 No progress within the last year.
3.7	Conservation landscaping	Reduced storm water runoff from yards by using conservation methods in landscaping	Private landowners, master gardener, Penn State Extension	Urban Areas	2023-2025	Lack of interest from homeowners to change landscaping and some county	Botany and landscaping knowledge	None	Botany and landscaping knowledge.	TBD	10/10/2024- We have not looked into this idea much but we hope to use some conservation landscaping at our office to promote the idea to locals.

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update – Montour County
Stormwater Priority Initiative 3- BMPs in Developed and Urban Areas

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 # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2024) *add new 2022 progress above the existing 2021 progress. Date each entry
							Technical	Financial	Technical	Financial	
						ordinances do not support overgrown vegetation					
3.8	Continue dirt and gravel roads in low volume road program	Reduce sediment from dirt and gravel roads	Dirt and Gravel Roads Program and MCCD	Countywide	2021-2025	Limited amount of dirt and gravel roads left	Engineering and road resurfacing	$140,000 per year	Engineering and road resurfacing	$50,000	10/10/2024- The program is continuing to implement projects.
3.9	Establish an educator position	Establish a position for an environmental educator to inform the public about BMPs and more	County, MCCD, MARC	Countywide	2022 and beyond	Limited funding	Information to the public through MARC and the MCCD	N/A	Constant information through teaching and handouts	$70,000	10/10/2024- Not enough funding or time to organize this position.