	Phase 3 Watersh	ed Implementation Plan (	(WIP) Planning	and Progre	ss Templa	te					
	Green - action has b	een completed or is moving forv	vard as planned	Yellow - action	has encount	tered minor obstacles	Red - action has n	ot been taken or h	nas encountered	a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	<u>Available</u>	Resource	es <u>Needed</u>	Annual Progress to Date
							Technical	Financial	Technical	Financial	
Priori	ty Initiative 1: Prese	rvation of Natural Area	S								
1.1	Limit future development in current natural areas		County, Municipalities, PNA Action Team	Countywide	Late 2020 and beyond	Municipal buy-in					2022: This initiative and team has merged with the Buffers initiative and team. Overall efforts are driven by taking a more holistic approach to existing conditions and areas; and outlining approaches, engagements, etc. with identified locations with what may work and what the landowner may be receptive to. 2022 efforts focused in the Yellow Creek and Bobs Creek watersheds with the assistance of WPC.  2021: This is tied to the prioritization efforts the team is currently working through. Progress is slower than originally anticipated, but still underway. However, this is generally a central message is most outreach materials (e.g. press releases)
1.2	Promote and assist implementation of Wood and Pollinator Habitat in priority areas	Conservation Landscaping – 150 new acres  Urban Forest Planting – 200 new acres	BCCD, BCPC, non-profits	Countywide with initial focus on priority catchments	Late 2020 - 2025 (and beyond)	Tight timeframe for significant BMP implementation  Long-term verification processes	Local consultants/ engineers  Municipalities  BCCD  Non-profits (WPC, etc.)	NFWF, GG(DEP), EPA, DCNR Municipal.		Full BMP implementation dollars (~\$225,000)	2022: Turf-to-meadows is proving to be a popular choice and there is general receptiveness. Two "large" sites have been identified for turf-to-meadows and efforts are underway to secure two more sites that have been identified through the catchment assessment/targeting initiative (approximately 8 acres total). Promotion of turf-to-meadows has been included in one-on-one engagements that may be centered around other BMPs (e.g. Bedford Borough Park).  2021: Several demo projects were identified (and CAP funds being allocated for conservation landscaping), and there has been a general receptiveness to this approach primarily based on aesthetics.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date	
							Technical	Financial	Technical	Financial		
1.3	Promote and assist implementation of Urban Tree Canopy in priority areas	Urban Tree Canopy – 5 new acres	Municipalities	Countywide with initial focus on priority catchments	Late 2020 - 2025 (and beyond)	Build on existing urban forest areas	Local consultants/ engineers Municipalities	NFWF, GG(DEP), EPA, DCNR Municipal			2022: A higher focus has been afforded towards conservation/preservation of existing largescale forested areas. A more detailed analysis of tools to assist landowners with preservation will be explored in 2023 as a result of the prioritization exercises of two action teams.  2021: This is tied to the prioritization efforts the team is currently working through. Progress is slower than originally anticipated, but still underway. The PNA Action team will most likely merge with the Buffers Action team as efforts are overlapping and this change may help streamline efforts.	
1.4	Promote and assist implementation of Forest, Farm, and Wetland Conservation BMPs in priority areas	Farmland Conservation – 3,900 total acres  Forest Conservation – 4,000 total acres  Wetland Conservation – 160 total acres	County, BCCD, Municipalities, PNA Action Team, non- profits (WPC, etc.)	Countywide with initial focus on priority catchments	Late 2020 – 2025 (and beyond)	Tight timeframe for significant BMP implementation	Local consultants/ engineers  Municipalities  BCCD  Non-profits (WPC, etc.)  County	NFWF, GG(DEP), EPA, DCNR, REAP Municipal		Full BMP implementation dollars (~\$725,000)	2022: More exploratory efforts with increasing the farm preservation capabilities in the county need to be pursued. Ideas have been generated, but action is still to be taken. That said, ten farms have been preserved and a conscious effort to incorporate farm preservation as part of catchment targeting efforts is underway. A more accurate number of potential farms and/or acreage is anticipated through the catchment assessments processes and delineation of farm parcels against previously captured data.  2021: This is tied to the prioritization efforts the team is currently working through. Progress is slower than originally anticipated, but still underway.	
1.5	Explore potential for Bedford County-based preservation and conservation program		PNA Action Team, BCPC	Countywide	Game plan by late 2020 (with imp. to follow)	Resistance and/or lack of centralized program	State and local agencies and reports		Legal considerations		2022: See note 1.4  2021: This is tied to the prioritization efforts the team is currently working through. Progress is slower than originally anticipated, but still underway.	

Action	Phase 3 Watersh  Green - action has b  Description			te ered minor obstacles Potential	Red - action has not been taken or has encountered a serious barrier						
#	2300.	Performance Target(s)	Responsible Party(ies) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	Resources <u>a</u>	<u>Available</u>	Resourc	es <u>Needed</u>	Annual Progress to Date
							Technical	Financial	Technical	Financial	
Priority	/ Initiative 2: Agric	ulture									
2.1	Develop a game plan for potential increased efficiencies or nutrient reductions with fertilizer applications	Game plan/approach defined-completed	Ag Action Team, local dealers, farmers	Countywide	Game plan by early 2021	Per the county technical toolbox, the majority of nitrogen applied to agricultural land is via fertilizers (70%)	Local dealers  Penn State, BCCD			Continued verification funding	2022: The one-on-one engagements approach have continued through several local champions (BCCD reps, BCCD board members, 3 <sup>rd</sup> party on-the-ground specialist, CAP Coordinator, etc.). Organized engagements follow the catchment targeting/assessments approach. Primary engagements thus far have included the Evitts Creek and Yellow Creek watersheds (~35 farms) via the direct outreach effort and Bobs Creek supported by WPC outreach efforts. Engagements include gaining a better understanding of actual fertilizer use versus projected fertilizer use.  2021: Primary game plan centered around "large" farmer meetings, but COVID restricted such meetings (some of the Winter meetings were cancelled). Currently relying on one-on-one engagements and personalized communications. Developing a catchment analysis approach to launch 4 <sup>th</sup> qtr 2021 with initial focus in the Yellow Creek watershed.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date
	Implement and/or		BCCD, NRCS	Countywide	Plan developed by end of 2020; initial imp.	Ensures capture of implemented BMPs for long-term verification processes	Technical  Local agencies,  BCCD	CAP Coordinator funding, BCCD funding	Technical	Financial	2022: There is a backlog of data and information for PK entry. With the recent launch of the Partner Portal, a game plan for data entry efforts is currently being developed and projected to be completed
2.2	capture developed conservation plans into PracticeKeeper				In 2021	Potential time and resource limitations for plan entry					during the last qtr of 2022. The LTVPs flowchart includes the steps and options for capture and entry of plans into PK and the PK Partner Portal.  2021: Funding for additional personnel (\$55,000/yr) is the missing piece to move this
2.3	Promote and assist implementation of Agricultural Compliance practices in priority areas	Soil Conservation and Water Quality Plans (102,000 total acres)  Core Nitrogen Nutrient Management (76,000 total acres)  Core Phosphorus Nutrient Management (22,000 total acres)  Barnyard Runoff Controls (9 new acres)	Ag Action Team, BCCD, NRCS, Penn State, farmers	Contiguous agriculture land use areas, with initial focus on red-coded catchment areas (or where current initiatives are underway)	2021 – 2025 (and beyond)	Farmer resistance or buy-in  Resources to write plans	Local experts and agencies	EQIP  SCC Reimb  Program  ACAP, CAP	NRCS	Full BMP implementation dollars (~\$2.0 million)	action item from yellow to green  2022: EQIP, CEG, CAP implementation dollars have continued to be proven popular and useful for implementation of BMPs. A backlog of farms with needed funding assistance for BMP implementation exists and continues to expand with the catchment targeting/assessment efforts (SCWQPs were developed for ~75 farms during 2022 with identified BMP implementation needs at various levels). ACAP dollars will be the primary funding vehicle for ag BMP implementation, but CAP implementation efforts will be used as part of the decision-making processes for where to apply ACAP dollars. We currently anticipate we will ultimately exceed Barnyard Runoff Controls (BRCs) implementation targets in the long run through a combination of capturing previous unrecorded improvements and new improvements.  2021: EQIP, CEG, etc. have proven popular in the county. CAP implementation funds were able to be provided to 3 farms to assist with stretching monies (all funding streams) further overall. Implementation of compliance practices are the priority when

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Action #	Description	Performance Target(s)	Performance Target(s)  Responsible  Party(ies) and  Partnerships		rty(ies) and Location Timeline		Resources	<u>Available</u>	Resour	ces <u>Needed</u>	Annual Progress to Date
							Technical	Financial	Technical	Financial	considering ag BMPs (barnyard controls, HUAs, prescribed grazing, etc.)
2.4	Promote and assist implementation of Soil Health practices in priority areas	High Residue Tillage Management (26,000 acres/year)  Conservation Tillage Management (10,000 acres/year)  Traditional Cover Crops (13,000 acres/year)  Traditional Cover Crops with Fall Nutrients (17,000 acres/year)  Commodity Cover Crops (1,200 acres/year)  Prescribed Grazing (12,000 total acres)	Ag Action Team, BCCD, NRCS, Penn State, farmers	Contiguous agriculture land use areas, with initial focus on red-coded catchment areas (or where current initiatives are underway)	2021 – 2025 (and beyond)	Farmer resistance or buy-in  Modification of official definitions would be helpful	Local experts and agencies	EQIP	NRCS	Full BMP implementation dollars (~\$1.89 million)	2022: Soil health practices (particularly prescribed grazing) have entered one-on-one engagement conversations where appropriate and as a result of catchment targeting/assessment efforts. Through SCWQP development during 2022, approximately 24 opportunities have been identified for improved soil health practices. These efforts will be further pursued as part of the LTVPs and one-on-one engagements process. As the catchment targeting/assessment process continues through 2024 and 2025, it is anticipated a more clear picture of the full inventory of opportunities and previously uncaptured information will be realized.  2021: There is receptiveness to soil health practices, and several farms are observed/known to implement such practices. However, compliance practices are the primary focus for initial BMPs for implementation. Catchment-to-catchment analyses are intended to inject soil health considerations as part of engagement efforts.

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Temp	Phase 3 Watershed Im	mplementation Plan	(WIP) Planning	g and Progress Templa
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	Green - action has been completed or is moving forward as planned			<u>Vellow</u> - action has encountered minor obstacles			Red - action has n	ot been taken or			
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	<u>Available</u>	Resources <u>Needed</u>		Annual Progress to Date
				0	2024	-	Technical	Financial	Technical	Financial	
2.5	Promote and assist implementation of expanded nutrient management practices in priority areas	Core Nitrogen Nutrient Management (13,000 acres)  Core Phosphorus Nutrient Management (3,500 acres)  Nutrient Management-Nitrogen Rate (10,000 acres)  Nutrient Management- Phosphorus Rate (10,000 acres)  Nutrient Management-Nitrogen Placement (13,000 acres)  Nutrient Management- Phosphorus Placement (10,000 acres)  Nutrient Management-Nitrogen Timing (14,000 acres)  Nutrient Management- Phosphorus Timing (10,000 acres)	Ag Action Team, BCCD, NRCS, Penn State, farmers	Contiguous agriculture land use areas, with initial focus on red-coded catchment areas	2021 – 2025 (and beyond)	Farmer resistance or buy-in	Local experts and agencies	EQIP	NRCS	Full BMP implementation dollars (~\$2.92 million)	in favor as part of the one-on-one engagements approach and where appropriate. A higher-level focus is afforded to "what makes sense for a farmer" in lieu of pushing certain BMPs for the sake of implementing BMPs. There is a direct relationship with Action 2.1 in gaining an understanding of level of actual fertilizer use that we anticipate long-term projections for this action. One-on-one engagements will continue to be pursued as a result of the catchment targeting/assessment process.  2021: Compliance practices are the primary focus for initial BMPs for implementation. A shift after 1-2 years of continued successful compliance BMPs implementation can be realized for expanded nutrient management outreach. Plans sidelined from winter 2020-2021 due to COVD restrictions will be implemented during winter 2021-2022 (farmer meetings, etc.) to launch promotion efforts.
2.6	Promote and assist implementation of improved animal unit practices in priority areas	Manure Storage Facilities – 30,000 AUs  Dairy Precision Feeding – 14,000 Dairy Cow AUs  Manure Transport out of Bedford County – 2,000 dry tons/year	Ag Action Team, BCCD, NRCS, Penn State, farmers, manure haulers/ brokers, ag retail entities	initial focus	2021 – 2025 (and beyond)	Farmer resistance or buy-in  Design and engineering bottlenecks	Local experts and agencies	EQIP ACAP, CAP	NRCS TSPs (engineering)	Full BMP implementation dollars (~\$3.6 million)	2022: Manure storage coming more to the forefront as catchment targeting/assessment efforts revealed a number of facilities are either needed or upgraded. Most developed SCWQPs have identified a need of either a new or upgraded manure storage facility and most current priority projects include a manure storage facility.  2021: Manure storage is lumped in with compliance practices and generally a practice

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date	
							Technical	Financial	Technical	Financial	observed with other compliance BMPs implementation.	
2.7	Promote and assist implementation of land retirement BMPs	Retirement to Ag Open Space – 1,200 acres	County, BCCD, landowners	Countywide (where appropriate)	2021 - 2025	Capture lands already retired				Full BMP implementation dollars (~\$203,000)	2022: No major effort to promote land retirement. However, catchment assessment/targeting efforts are revealing retired lands where we there is an agreement that lands should be captured and reported. Seven watersheds have been inventoried and reveal ~60 acres of retired lands may be uncaptured. With the creation of the Bedford County GIS department, there is consensus to develop a game plan to more accurately capture lands already retired.	
2.8	Assist Riparian Buffers AT with implementation of buffers in agricultural riparian zones in priority areas		RB Action Team, Ag Action Team	Countywide	2021-2025 (and beyond)	Farmer resistance					2021: There has been no major push or outreach associated with this action.  2022: Buffers are a tough sell, but will continually be a part of conversations. A gradual shift in focus is occurring with promotion for grass buffers as there is a perception of less resistance to this approach through engagements thus far.  2021: The primary ag demo project included implementation of riparian buffers between the crop fields and stream. That said, buffers continue to be a tough sell or there is a hesitancy to retire land in production.	

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	arty(ies) and Location Timeline Implementation Resources Available Resources Needed		es <u>Needed</u>	Annual Progress to Date				
							Technical	Financial	Technical	Financial	
			Ag Action Team	Countywide	Late 2020	Limited definition of	BMP Quick				2022: Cover crops are observed across the
					– mid 2021	cover crops and what	Reference Guide				county, but an expansion of the definition
						would count as a					and/or what is provided reductions would
	Expand implementation					reduction	Local experts and				increase the amount of observed BMPs
	of cover crops (specific						agencies				implemented year-after-year.
2.9	focus on alternative					Addition of cover					
2.3						crops approach					2021: Allowance or approval of the
	approaches that may					allowing fall nutrients					application of fall nutrients and harvesting in
	count as reductions)					and spring harvest					the spring would most likely pull in more
						would be ideal and					acres (this is a programmatic
						incorporate					recommendation).
						additional acres.*					

	Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template											
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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Resources <u>Needed</u>		Annual Progress to Date (2021)			
							Technical	Financial	Technical	Financial		
Priori	ty Initiative 3: Ripari	ian Buffers										
3.1	Promote and assist implementation of buffers in agricultural riparian zones in priority areas	Forest Buffer (2,300 new acres)  Forest Buffer with Streamside Exclusion Fencing (2,000 new acres)  Grass Buffer (1,400 new acres)  Grass Buffer with Streamside Exclusion Fencing (900 new acres)	RB Action Team, BCCD, non-profit partners, farmers	Contiguous agriculture land use areas, with initial focus on red-coded catchment areas	2021 – 2025 (and beyond)	Farmer resistance or buy-in	Local experts and agencies, non-profit partners (WPC, etc.)	EQIP		Full BMP implementation dollars (~\$2.07 million)	2022: Buffers a tough sell in the agricultural sector. Collectively, the team leans on WPC and its efforts to date to select farmers for implementation in the agricultural sector. This initiative and associated team has merged with the Preservation of Natural Areas (PNA) initiative and team with the intent to focus on non-agricultural areas or truly open space areas that may be on a farm. An anchor project in Juniata Township (approximately 4300 LF of stream) has been identified with receptive landowners across both ag and nonag parcels. Implementation at this location would serve as a demonstration that contiguous BMPs can be implemented in lieu of isolating improvements to single parcels.  2021: Implementation on the ag demo project proved successful. However, buffers in general are a tough sell. The action team has developed an approach for the development and implementation of a "buffer bonus" program, and hope final details are set by the end of 2021 to improve implementation rates.	
3.2	Promote and assist implementation of buffers in nonagricultural riparian zones in priority areas	Developed Areas Riparian Forest Buffers (40 new acres) Rural Areas Forest Buffers (140 new acres)	BCCD, non- profits, municipalities	Countywide with initial focus on priority catchments	Late 2020 – 2025 (and beyond)	Tight timeframe for significant BMP implementation  Long-term verification processes	Local consultants/ engineers  Municipalities  BCPC  Non-profits (WPC, ACB, etc.)	NFWF, GG(DEP), EPA, DCNR  Municipal.		Full BMP implementation dollars (~\$75,000)	2021: Several buffers were implemented by local partners. There is a tie to prioritization efforts being conducted by the PNA Action Team for targeting and outreach for buffer opportunities. The Buffers Action Team and Preservation of Natural Areas (PNA) Action Team plan to merge last qtr of 2021 as focus areas, tools for analysis, etc. are overlapping.	

		been completed or is moving fo			barrier		Red - action ha	s not been taker	or has encount	ered a serious	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	Resources <u>Available</u> Resources <u>Needed</u>		Annual Progress to Date (2021)	
							Technical	Financial	Technical	Financial	
3.3	Explore model ordinance language for requiring buffers in development projects		BCPC, RB Action Team	countywide	Game plan by late 2020 (followed by imp.)						2022: Political pushback outweighs the few champions backing this approach. Efforts have been driven more to assist receptive landowners with buffer considerations in lieu of codifying those considerations. This action will remain on the back-burner for the foreseeable future. However, it will not be removed as it is also anticipated as more buffers are implemented, a consensus may build to outline uniform implementation and maintenance needs in some form or manner.  2021: While the team has expressed a desire for movement on this action and explored options, there is significant political pushback

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>/</u>	<u>Available</u>	Resources <u>Needed</u>		Annual Progress to Date
							Technical	Financial	Technical	Financial	
Priori	ty Initiative 4: Point	Source Pollution									
4.1	Develop or acquire more comprehensive inventory		PSP Action Team, BCPC, municipalities	Countywide	Game plan by early 2021 (followed by imp.)	Scattered information and data may take time to centralize					2022: This is on the docket to explore more in depth after the non-ag BMP database development efforts in the County GIS system are finalized at some point in late 2022 or early 2023.
	of septic systems in the county										2021: High level inventory was completed that revealed roughly 17,000 systems in the county. Status of each system is currently unknown. BCPC GIS capabilities have been expanded, and the team will explore possible next steps.
4.2	Ascertain status of wastewater treatment facilities (including small treatment plants) and corresponding needs for improvements		PSP Action Team, BCPC, municipalities	Countywide	Game plan by late 2020 (followed by imp.)	Additionally determine Act 537 plan update needs	Local consultants/ engineers WWTP operators			More available 537 plan update funds*	2022: There is a general understanding of where upgrades are needed (plants, plans, etc.), the limiting factor is funding.  2021: An inventory was completed, and several areas where a major WWTP improvement is needed, a small package facility is needed, and 537 plan updates needed has been identified. Funding is the limiting factor for next steps.
4.3	Promote and assist the implementation of septic system improvements	Septic Denitrification, Conventional – 100 systems	PSP Action Team, BCPC, municipalities	Countywide with initial focus on priority catchments	Mid 2021- 2025 (and beyond)	Funding for improvements, homeowner resistance	Local consultants/ engineers			BMP implementation dollars (~\$120,000)	2022: Conversion from privies to functioning septic systems or upgrades to dilapidated systems have been the primary focus (including use of CAP funds to implement these efforts-Cypher Beach).  2021: A demo project involving implementation of a septic system has CAP funds allocated to it. A high-level inventory of systems is complete, but next steps need to be worked through during last qtr of 2021.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>/</u>	<u>Available</u>	Resource	es <u>Needed</u>	Annual Progress to Date (2021)
							Technical	Financial	Technical	Financial	
riori	ty Initiative 5: Devel	oped/Urban Stormwat	er								
5.1	Develop model ordinances focused on water quality and stormwater management (including countywide Act 167 Plan)		SW Action Team, BCPC, municipalities	Countywide	Game plan by early 2021 (followed by imp.)	Focus on preservation and long-term maintenance of implemented BMPs  Updated SWMO(s)  Floodplain management  Municipal resistance	Local consultants/ engineers BCPC			Ordinance development funding  Countywide Act 167 plan development (\$150,000)	2022: If funding was available, there appears to be enough support and receptiveness for this effort to move forward. This potential action will be revisited in 2023 with the understanding DEP has allocated funds for Act 167 Plan development or updates.  2021: A countywide Act 167 plan is desir and there is some receptiveness (but political pushback is still stronger). However, this may only move forward w funding for plan development.
5.2	Capture unreported land development BMPs		PADEP, BCPC	Countywide	On-going Service of the control of t	Reconciliation of toolbox quantities with on-the-ground conditions	PADEP, BCPC				2022: Non-ag BMPs are captured throug the catchment targeting/assessment process. The current plan is to house the data and information in the county's GIS database, and to subsequently submit a report of these BMPs annually to DEP. It currently anticipated the first major repowould be submitted in 2023. The LTVPs a flowchart includes a sub-flowchart reflecting data and information capture.  2021: Game plan is in place, simply need execute the first steps last qtr of 2021 to coincide with developed catchment-to-catchment analysis approach.
5.3	Identify regional project opportunities in select watersheds		LSI, BCCD	NFWF priority watersheds, Assessed catchments	On-going	Focus on stream restoration, streambank stabilization, dirt & gravel roads opps.  Watershed-based or regional permitting structures may alleviate	BCCD, LSI, TU	GG, NFWF, CAP			2022: Large-scale opportunities have been identified (Juniata Township, Cumberland Valley Run, Yellow Creek, Shobers Run), and local entities and champions continuto monitor available funding for implementation efforts. The CAP Coordinator and watershed specialist continue to maintain a priority projects I for these opportunities as they arise. A considerable focus (e.g. Cumberland Val

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>/</u>	<u>Available</u>	Resource	s <u>Needed</u>	Annual Progress to Date (2021)
5.4	Fertilizer legislation		State			administrative hurdles*  For turf grass areas  Passage of legislation will provide avenues	Technical	Financial	Technical	Financial	Run and Shobers Run opportunities) has been an attempt to consolidate individual efforts or opportunities into singular (or combined) regional efforts.  2021: A NFWF grant was awarded for "boots-on-the-ground" efforts currently underway and supported with the using CAP coordinator funds for additional efforts, outreach, engagements, etc. Concepts and sub-watershed action plans will be delivered in October for future action.  2022: Legislation was passed, but the Management Team is unaware how it will result in measurable or awarded reductions.
5.5	Pursue regional stream and wetland restoration projects that provide significant additional benefits and reductions	Urban Stream Restoration (30,000 new linear feet)  Non-urban Stream Restoration (48,000 new linear feet)  Wetland Restoration (150 acres)	TU, BCCD, WPC, watershed groups, non-profits, municipalities	Countywide	Current – 2025 (and beyond)	to explore reductions tied to urban nutrient management*  TU project (in Bedford)  WPC projects (RB AT mostly)  Tie into planned Hazard Mitigation Plan update efforts	Local consultants/ engineers  Non-profits (TU, etc.)	NFWF, GG, EPA, DCNR		Full BMP implementatio n dollars (~\$23.5 million)	2022: TU continues to be a local leader with implementing these types of BMPs, along with WPC for several projects. TU plans to pursue and implement phase 3 of their Shobers Run project in 2023. We are currently attempting to organize remaining Shobers Run opportunities and proposed improvements into a singular effort. See note 5.3 for proposed large scale projects as well.  2021: TU is implementing projects (including CAP funds) in multiple locations. The NFWF "boots-on-the-ground" efforts have identified locations where outreach/engagement is underway and concept designs are being generated.

Action	Description	Performance Target(s)	Responsible	Geographic	barrier Expected	Potential					
#	Description	r circimance ranges(e)	Party(ies) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date (2021)
		Advanced Grey Infrastructure for	Municipalities	Countywide	Late 2020	Urban nutrient	Technical  Local consultants/	Financial NFWF, GG,	Technical	Financial Full BMP	2022: There are no MS4s. However, there
5.6	Promote and assist implementation of urban/suburban sector controls for nutrient and sediment reductions	IDD&E Control (250 acres treated)  Impervious Surface Reduction (1 acre)  Urban Nutrient Management (3,400 acres)		with initial focus on urban communities and priority catchments	– 2025 (and beyond)	management is dependent on fertilizer legislation  Tight timeframe for significant BMP implementation  Long-term verification processes  No MS4 communities in Bedford County	engineers  Municipalities	EPA, munic.		implementatio n dollars (~\$17,000)	are early discussions with organizing and launching several feasibility projects located in areas in or near to Bedford to ascertain improvements based on regiona needs. Action 5.7 is the driver for these efforts.  2021: There are no MS4s is the county, so IDD&E controls and compliance has no regulatory driver. Urban nutrient management is dependent on the state legislation.
5.7	Promote and assist implementation of stormwater control measures that incorporate Low Impact Development (LID) approaches	Wet Ponds and Wetlands (40 acres treated)  Stormwater Performance Standards-Runoff Reduction (350 acres treated)  Bioretention/Raingardens (15 acres treated)  Vegetated Open Channels (10 acres treated)  Filtering Practices (5 acres treated)	SW Action Team, BCPC, municipalities	Countywide with initial focus on priority catchments	Late 2020 - 2025 (and beyond)	Tight timeframe for significant BMP implementation  Long-term verification processes  Partially tied to capture of unreported BMPs	Local consultants/engineers	NFWF, GG(DEP), EPA, DCNR, developers		Full BMP implementation dollars (~\$600,000)	2022: The primary stormwater sector demo project has proven to be difficult to get off the ground (this has been primarily driven by a lack of capacity (number of contractors)). The demonstration project will proceed as the value of this project outweighs the cost. In-roads have been made with Bedford Borough, Bedford Township, and Everett Borough with implementation of nutrient and sediment reduction BMPs to complement proposed capital improvements. While the BMPs proposed under this action will most likely be included in these efforts, Action 5.5 is the overall driver of BMP types that are anticipated to be implemented.  2021: A demo project is planned/underwater one municipality to promote these practices. The project will bid in October 2021. Objective is to create an anchor with one municipality that others can follow. That said, a majority of municipalities in

	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(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	<u>Available</u>	Resources <u>Needed</u>		Annual Progress to Date (2021)			
							Technical	Financial	Technical	Financial				
5.8	Promote and assist implementation BMPs tied to the Dirt & Gravel Road program	Outlets only – 300 linear feet  Driving Surface + Outlets – 1,000  linear feet	BCCD, BCPC, SW Action Team, municipalities	Countywide	2021 – 2025 (and beyond)	Stabilization of rural areas with WQ improvements	BCCD  Local engineers	Full BMP imp. dollars (~\$1,000)			2022: Implementation continues as four dirt & gravel road and two low volume road contracts were completed last year. A possible pilot project in rural areas of the Yellow Creek watershed have been identified to potentially use this program as the anchor for multiple improvements within a single catchment focusing on road run-off, ag practices, stream health and stability, and general stabilization.			
											2021: Popular program in Bedford County with no plans to inhibit effort.			

	Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template													
	<u>Green</u> - action has	been completed or is moving fo	orward as planned	Yellow - action	on has encou barrier	ntered minor obstacles	Red - action has	s not been taker	or has encount	ered a serious				
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	<u>Available</u>	Resource	es <u>Needed</u>	Annual Progress to Date (2021)			
							Technical	Financial	Technical	Financial				
Prior	ty Initiative 6: Educa	tion and Outreach												
6.1	Provide support to other action teams with development of supporting education and outreach materials		Educ. Action Team	Countywide	On-going	Consolidate existing materials (incl. CAP-specific materials developed by DEP)  Build coalitions with existing partners and entities (WPC, ACB, etc.)			Material and content development	\$3,000	2022: Press releases continue to be developed and released periodically. There is a reliance on local partners (e.g. WPC) for one-on-one engagements with receptive individuals for nonag related engagements.  2021: Press releases were issued to highlight multiple efforts (direct and indirect ties to the CAP). Team is currently developing one page outreach materials for certain BMPs to assist other teams.			
6.2	Develop, implement, and manage a website with CAP supporting information specific to Bedford County		Educ. Action Team, CAP Coord.	Countywide	Early 2021 and beyond	Long-term website management	Website secured		Website, social media platforms development	\$8,000 (+\$2,000 annually for support)	2022: Back-up plan to update the BCCD website was the chosen approach, and a page was added to the website in early 2022 to include CAP-related information. However, it became apparent the overall website needed updated ("make over") and the BCCD website is currently being updated and will continue to hold CAP related data and information once the update is complete in 2023.  2021: Development and implementation was highly dependent on the EE grant. The current back-up plan is a self-posted sub-webpage on the BCCD website with links from other county websites.			
6.3	Provide oversight and guidance for the Bedford CAP Communications Plan		Educ. Action Team, CAP Coord.	Countywide	Game plan by early 2021 (followed by imp.)	Develop "re- imagined" outreach approaches and messages  Determine additional needs, focus areas, etc. for improved messaging					2022: One-on-one engagements are the primary communications vehicle across all efforts (farmers, municipal representatives, landowners, etc.)  2021: Centerpiece of the plan was a website and assistance with messaging from WWTW. One-on-one engagements, press releases, etc. continue.			

	Green - action has b	peen completed or is moving fo	rward as planned	<u>Yellow</u> - action	on has encou barrier	ntered minor obstacles	Red - action has not been taken or has encountered a serious					
Action	Description	Performance Target(s)	Responsible	Geographic	Expected	Potential						
#		Party(ies) and Partnerships	Location Ti	Timeline	Implementation Challenges or	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date (2021)		
						Recommendations						
							Technical	Financial	Technical	Financial		
			Educ. Action	Countywide	On-going	Build legislator					2022: Receptiveness to overall efforts are still	
			Team, BCCD,			coalition for long-term					limited to a handful of local supervisors (which we	
			ВСРС			support					are okay with as this forms the foundation)	
											including Everett Borough, Bedford Borough, and	
						Consider assignment					E. St. Clair Township. It is anticipated that	
L	egislator and local					matrix					continued development of these relationships will	
6.4 g	government engagement										ultimately help build a bridge to other local	
											government representatives.	
											2021: A few local supervisors have been receptive	
											to efforts and appear to understand the big	
											picture and needs. BCPC personnel continue to	
											promote efforts and needs with commissioners.	
			Educ. Action	Countywide	Game plan	Bedford Fair, Farmer's					2022: Bedford Fair is the primary large-scale	
			Team		by early	Market, Bedford					general engagement activity outside of one-on-	
					2021	Chamber, "Legislator's					one engagements. The local team will continue to	
					(followed	Breakfast", Home &					follow the one-on-one engagement approach as	
C	Organize and facilitate				by imp.)	Garden Show, etc.					this has resulted in receptiveness to the CAP goals	
6.5 g	general engagement										and objectives.	
	ctivities					COVID restrictions					2024. Carranda marana marata barra barra	
						Con arata inta					2021: Several engagements have been conducted,	
						Generate inventory and matrix for events					or CAP-related messaging was involved (e.g.	
						and matrix for events					Bedford Fair). However, numerous events have been postponed or cannot go forward (e.g. Home	
											and Garden Show) due to COVID restrictions.	

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

- 1. Inputs These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
- 2. Process what is each partner able to do where and by when. These are the action items listed under each priority initiative.

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- 3. Outputs and outcomes both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
- 4. Implementation challenges any potential issues or roadblocks to implementation that could impede outputs and outcomes.

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

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

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

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

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

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

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

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

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

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