Pennsylvania Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Milestone Reporting

- Progress Reporting Period: January 1, 2023 December 30, 2023
- Milestone Reporting Period: January 1, 2024 December 30, 2025 (Milestone Adjustments for 2024-2025)

Action #	Description	Performance Target(s) and	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	(
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	<mark>(2023 Prog</mark>
•		Communications	and Outreach						
2.1.1A	, State Action, Nun Continue communication, outreach and stewardship programs to increase the use of conservation tillage and no-till practices.	acres in no-till	PDA, SCC, CDs, CCAs, Private Consultants, Penn State Extension, No Till Alliance, Farmland Preservation, Local Farmland Trusts / Conservancies, PA Farm Bureau	Chesapeake Bay	December 2025				2020 Update: All state agencies, WIP action leaders and p communicate the messag or financial). This BMP is invested significant resou to assist PA farmers in pu 2021 Update: All state agencies and pa communicate the messag or financial). This BMP is the Numeric Milestones, an increase in reported n through the REAP tax cree purchasing No-till equipm were awarded for no-till The PA No Till Alliance co education/outreach/train 2022 Update: REAP fund funding for no-till equipm Streams Fund was funder Governor as part of the F From this, the Pennsylvat Program (ACAP) was creat for best management pra- apportionment of funds for occur in January 2023. It will enter delegation agree 2023 Update: The Agricultural Conserva- running with \$141 million

Progress to Date (2020 – 2021 - 2022) And rogress Updates HIGHLIGHTED)

d partner organizations continue to sage and the availability of funding (technical sencouraged and emphasized. PA has sources through the REAP tax credit program purchasing No-till equipment. **Milestone**

Adjustments (2024 – 2025)

partner organizations continue to ssage and the availability of funding (technical P is encouraged and emphasized. As shown in es, submitted progress through 2021 shows ed no-till. PA has invested significant resources credit program to assist PA farmers in ipment. In 2021, \$3.5 million in tax credits till equipment through REAP.

e continues to assist in raining, etc. See <u>https://panotill.org/</u>

Inding continues to provide producers with ipment. In addition, the Pennsylvania Clean ided by the legislature and signed by the ine FY 2022-23 General Fund State Budget. Ivania Agricultural Conservation Assistance created, which provides \$154 million in funds practices on farms statewide. The first ds to county conservation districts is set to . It is anticipated that conservation districts agreements in January 2023.

ervation Assistance Program (ACAP) is up and llion committed to 66 county conservation

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							districts through signed delegation agreements. At least 10 counties are using funds to either supplement existing cover crop programs or start a new cover crop program. In addition, the PA No-Till Alliance, in coordination with the Soil Health Coalition, continues to increase its network of farmers. Look for acres of cover crops and no-till to increase when the latest ag census figures are released. Pennsylvania's Sustainable Agriculture Board, provided for under the Sustainable Agriculture Act, will be funded in part by Chesapeake Bay MEB IIJA funds. Related to the Sustainable Agriculture Board, grants of up to \$25,000 (or \$50,000 if dollar per dollar match) will be awarded for projects that improve soil health and are considered "climate smart" or "regenerative agriculture" practices, such as cover crops, conversion of cropland to rotational grazing, working buffers, forested buffers, agroforestry and silvopasture. Although limited initially to the Chesapeake Bay watershed due to funds being used, it is the SCC's intent to provide statewide funding as it become available.
2.1.2A	Continue communication, outreach and stewardship programs to increase implementation of cover crops.	547,695 acres with fall nutrients, traditional cover crop; 161,601 acres of land without fall nutrients, traditional cover crop; 124,106 acres no fall nutrients and harvested crop	PDA, SCC, CDs, CCAs, Private Consultants, Penn State Extension, No Till Alliance, Farmland Preservation, Local Farmland Trusts/Conservanci es, PA Farm Bureau	Chesapeake Bay	December 2025	Challenges include CBP definition of cover crop and the inability to report commodity cover crop via transect survey methodology.	 2020 Update: All state agencies, WIP action leaders and partner organizations continue to communicate the message and the availability of funding (technical or financial). This BMP is encouraged and emphasized. REAP made some changes to the cover crop BMPs for FY 2019-20 and beyond. Also, Cover Crops are eligible for 90% Tax Credit in any area covered by an agricultural TMDL. 2021 Update: All state agencies and partner organizations continue to communicate the message and the availability of funding (technical or financial). This BMP is encouraged and emphasized. As shown in the Numeric Milestones, submitted progress through 2021 shows an increase in reported cover crop acres. REAP provides that Cover Crops are eligible for 90% Tax Credit in any area covered by an agricultural TMDL. In 2021, \$210,500 was awarded in tax credits for cover crops and roller/crimpers thru the REAP tax credit program. Nearly 400 acres of cover crops were planted last fall utilizing \$13,109 of CEG funds. 2022 Update: Legislative passage of Agricultural Conservation Assistance Program (ACAP).

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					The Pennsylvania Clean St and signed by the Govern State Budget. From this, t Assistance Program (ACAR
					million in funds for best m The first apportionment o set to occur in January 20
					districts will enter delegat anticipated that ACAP fur assistance for cover crops
					districts will enter delegat
					DEP also worked with Per a method using the Volum Survey better account for
					method. This alternative Bay Agriculture Workgrou select county(ies) for 202
					2023 Update: The Resource Enhanceme credit for agriculture BMF
					million in credits each yea and acres issued for cover for 17,000 acres of cover
					to 90% credit for multispe were used for equipment this year, drones.
					As noted regarding no-till Agricultural Conservation running with \$141 million districts through signed d counties used funds to eit
					programs or start a new o Pennsylvania No-Till Allian Coalition continues to inc
					acres of cover crops and r census figures are release
					Pennsylvania's Sustainabl the Sustainable Agricultur Chesapeake Bay MEB IIJA
					Agriculture Board, grants

Milestone Adjustments (2024 – 2025)

In Streams Fund was funded by the legislature vernor as part of the FY 2022-23 General Fund his, the Pennsylvania Agricultural Conservation ACAP) was created, which provides \$154 st management practices on farms statewide. Int of funds to county conservation districts is 2023. It is anticipated that conservation egation agreements in January 2023. It is funding will include technical and financial rops. It is anticipated that conservation egation agreements in January 2023.

Penn State, Capital RC&D, and CBPO to create oluntary Producer Survey and the Transect for cover crop type and planting / harvesting tive method was approved by the Chesapeake group in November 2023 and will be applied in 2022 numeric reporting.

ement and Protection Program (REAP) tax 3MPs continues to be oversubscribed at \$13 year. The total estimated number of credits over crops over the past year was \$530,000 ver crops. Eligible applicants may receive up ispecies cover crops. In addition, tax credits ent, including no-till drills, crimpers, and new

b-till and conservation tillage above: The tion Assistance Program (ACAP) is up and llion committed to 66 county conservation ed delegation agreements. At least 10 b either supplement existing cover crop ew cover crop program. In addition, the Illiance, in coordination with the Soil Health b increase its network of farmers. Look for nd no-till to increase when the latest ag eased.

Pennsylvania's Sustainable Agriculture Board, provided for under the Sustainable Agriculture Act, will be funded in part by Chesapeake Bay MEB IIJA funds. Related to the Sustainable Agriculture Board, grants of up to \$25,000 (or \$50,000 if dollar per

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates	• 20			Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

					dollar match) will be awarded for projects that imp and are considered "climate smart" or "regenerativ practices, such as cover crops, conversion of cropla grazing, working buffers, forested buffers, agrofore silvopasture. Although limited initially to the Chesa watershed due to funds being used, it is the SCC's in statewide funding as it become available.	e agriculture" nd to rotational stry and peake Bay
2.1.3A	Continue communication, outreach and stewardship programs to increase implementation of pasture management.	180,201 acres of land used for pasture would follow NRCS Prescribed Grazing Plan or Resource Improvement Practice.	NRCS, Penn State Extension, Private Consultants, CDs	Challenges include CBP definition of Prescribed Grazing and non-alignment with PA State regulatory requirements under Chapter 91 Manure Management and Chapter 102 Ag E&S.	2020 Update: All state agencies, WIP action leaders and partner of continue to communicate the message and the ava funding (technical or financial). This BMP is encoural emphasized 2021 Update: All state agencies and partner organizations continu communicate the message and the availability of fu or financial). This BMP is encouraged and emphasiz the Numeric Milestones, submitted progress throug an increase in reported Prescribed Grazing acres. R tracking of implementation of the NRCS 528 Prescri and Resource Improvement Practice criteria remain In 2021, \$110,000 was award in tax credits for Past BMPs form the REAP Tax Credit Program. 2022 Update: The Pennsylvania Clean Streams Fund was funded h and signed by the Governor as part of the FY 2022-State Budget. From this, the Pennsylvania Agricultu Assistance Program (ACAP) was created, which promillion in funds for best management practices on The first apportionment of funds to county conservest to occur in January 2023. It is anticipated that r and pasture management projects will be included funding. 2023 Update: As the Agricultural Conservation Ass (ACAP) is now fully operational, the SCC will track for installed rotational grazing and pasture managemen next year's report, via Practice Keeper. It is anticipating number of applications will include this practice. The encouraging conservation districts to use ACAP fun practices that do not require the same level of enging conservation districts to use ACAP fun practices that do not require the same level of enging conservation districts to use ACAP fun practices that do not require the same level of enging conservation districts to use ACAP fun practices that do not require the same level of enging conservation districts to use ACAP	lability of ged and le to nding (technical ed. As shown in the 2021 shows eporting and bed Grazing Plan s a challenge. ure Related ly the legislature 23 General Fund ral Conservation vides \$154 arms statewide. ation districts is botational grazing for ACAP stance Program irms that have nt systems by ted that a good ne SCC has been ds for agronomic

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				structural practices. It is also estimated that issued over \$100,000 in credits for prescribe Pennsylvania's Sustainable Agriculture Board the Sustainable Agriculture Act, will be fund Chesapeake Bay MEB IIJA funds. Related to Agriculture Board, grants of up to \$25,000 (c dollar match) will be awarded for projects th and are considered "climate smart" or "rege practices, such as cover crops, conversion of grazing, working buffers, forested buffers, ag silvopasture. Although limited initially to the watershed due to funds being used, it is the statewide funding as it become available.	d grazing in 2023. , provided for under ed in part by the Sustainable r \$50,000 if dollar per at improve soil health nerative agriculture" cropland to rotational groforestry and e Chesapeake Bay
2.1.4A	CommunicateProvide statuswith EPA Regionupdates related to3 AgriculturalagriculturalLiaison, Agprograms and BMPPermitting,implementationCompliance andStaff	DEP, SCC, EPA Statewide	Quarterly	2020 Update:Initial call held with EPA permitting, complia staff on November 24, 2020 to discuss the K EPA's Milestone Evaluation.2021 Update:DEP and SCC meet with EPA CBPO and Wate quarterly basis to discuss WIP progress. DEF EPA CBPO on a bi-weekly and/or monthly ba assistance needs as well as model process no responded to informal questions regarding F agricultural programs submitted by EPA Wat format as well as via virtual conference call. Animal Agriculture Programs Assessment wi	ey Areas to Address in r Division staff on a staff also meets with sis to discuss technical eeds. DEP and SCC ennsylvania's er Division in written In 2022, the EPA
				2022 Update: DEP and SCC met with EPA CBPO and Water least a quarterly basis, if not more frequentl with EPA agricultural staff were primarily du Agriculture Programs Assessment and the C/ (PAG-12) and not held on a regular, quarterl has participated in multiple ad-hoc meetings those related to Infrastructure funding and o grants, CAST and other technical issues, Mar hours with EPA CBPO, and the PA Animal Ag Assessment. Bi-weekly meetings were held SRBC Technical Team throughout the year.	 Y. However, meetings to the EPA Animal AFO General Permit y basis. DEP and SCC with EPA , such as ther Chesapeake Bay agement Board office riculture Programs



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							 2023 Update: DEP and SCC met with EPA CBPO and Water Division staff on at least a quarterly basis, if not more frequently. However, meetings with EPA agricultural staff were primarily due to the CAFO General Permit (PAG-12) and not held on a regular, quarterly basis. DEP and SCC have participated in multiple ad-hoc meetings with EPA, such as those related to Infrastructure funding and other Chesapeake Bay grants, CAST and other technical issues, Management Board office hours with EPA CBPO, and USDA/EPA Crediting Task Force. Monthly meetings were held with CBPO and DEP / SRBC Technical Team throughout the year. In addition, DEP Agricultural Compliance staff meet bi-monthly to discuss cases and progress. Currently developing a quarterly meeting with Regional DEP staff to discuss Agriculture Compliance, inspections, Ch 102, and BMP implementation. 	
2.1.5A	Conservation District Field Representatives (CDFRs) in the Northeast Region, providing operational and liaison assistance to conservation districts	CDFRs provide communication, liaison, and operational support to conservation districts; these CDFRs will be engaged in Chesapeake Bay- related restoration activities and efforts.	DEP	Northeast Counties	July 2022		 2022 Update: Two CDFRs were hired by July 2022, providing assistance and support to the northeast counties, including those within the Chesapeake Bay watershed. 2023 Update: This task was completed in 2022. 	
2.1.6A	Hire 1 Conservation District Field Representatives (CDFRs) in the Northcentral Region, providing operational and liaison assistance to conservation	CDFRs provide communication, liaison, and operational support to conservation districts; this CDFR will be engaged in Chesapeake Bay- related restoration activities and efforts.	DEP	Northcentral Counties	March 2023		 2022 Update: This position was reposted and expected to fill by March 2023. 2023 Update: Task was completed in 2023. 	
2.1.7A	Hire 2 Conservation District Field	CDFRs provide communication, liaison, and operational support	DEP	Southcentral Counties	July 2023		2022 Update: Two CDFRs were hired by December 2022, providing assistance and support to the southcentral counties.	

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	(CDFRs) in the Southcentral Region, providing operational and liaison assistance to conservation districts	to conservation districts; these CDFRs will be engaged in Chesapeake Bay- related restoration activities and efforts.						2023 Update: Both positions experienc filled in September 2023 2024.
2.1.1F	Implement a comprehensive communication/ outreach strategy to engage farmers/landown ers in planting and maintaining riparian forest buffers.	85,000ac. of forest buffers planted on agricultural lands, and 3,100 acres of forest buffers on developed/non-ag lands.	DCNR, DEP, PSC, RFBAC, PA WIP III Forestry Workgroup, SCC, PDA, PSU, etc.	Chesapeake Bay	By 2022 Continue implement ation through 2025	Coordination, scheduling, lack of funding for marketing/commu nications/outreach /education, etc.		2020 Update: DCNR, in cooperation wir Forest Buffer Advisory Co effort in June 2020 that i landowners and a public https://www.dcnr.pa.gov ferMyStream/Pages/defa RFBAC and DCNR, and ha opportunities to enhance farmers. 2021 Update: DCNR continues to work campaign that was launce projects that have result collaborate with the RFB and is now partnering wit they begin outreach wor firm SWELL, using lesson in the Numeric Milestone an increase in reported f DCNR has not yet followe continued outreach, due in 2021. However, DCNR as additional implementa it would be a detriment f a practice to conduct out through with implement 2022 Update: In 2022, the Agricultural was approved by the Hou Through an allocation to received an additional \$5

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)	
Progress opdates highLighTED)		
ienced turnover in 2023. One position was 023. The other position will be filled in early		
n with its partners via the RFBAC (Riparian ry Committee), launched a two-fold outreach nat included a direct mailing to riparian area blic media campaign: n.gov/Conservation/Water/RiparianBuffers/Buf default.aspx Collaboration continues with d has discussed with PA Farm Bureau ance outreach and communications with PA		
ork on the Buffer My Stream outreach unched in 2020, finding funding to implement sulted from that outreach. DCNR continues to RFBAC to share outreach materials developed g with Chesapeake Bay Foundation (CBF) as work on the K10 marketing campaign with the sons learned from Buffer My Stream. As shown tones, submitted progress through 2021 shows ed forest buffers in fenced riparian areas.		
lowed up with Farm Bureau to partner on due to a shortage of implementation funding CNR intends to reinvigorate this effort as soon entation funds are ready to disburse. DCNR felt ent to the program and reputation of buffers as coutreach without the funding to follow- ientation.		
ural Conservation Assistance Program (ACAP) House and Senate and the program started.		
n to the Keystone Tree Fund, DCNR has al \$5.28 million to disburse as buffer grants.		

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				DCNR will be reinvigorating some outreach strategies to help utilize these new funds, including reaching out to the PA Farm Bureau for feedback.DCNR also hired five new Regional Watershed Forestry Specialists, bringing the total number of Regional Watershed Forestry Specialist positions within DCNR up to seven. Each of these seven positions serves a unique region of the commonwealth, and each region touches a portion of the Chesapeake Bay. The new specialists started in late August, and have been working on outreach since. 2023 Update: DCNR distributed the \$5.28M in American Rescue Plan Act (ARPA) funding allocated to the Keystone Tree Fund, and \$2M in EPA Infrastructure Investment and Jobs Act (IIIA) funding, via the Community Conservation Partnership Program (C2P2) grants for buffer implementation to various partners working around the Watershed and the Commonwealth. DCNR's new Regional Watershed Forestry Specialists are working with C2P2 grantees with buffer funding like Stroud, Alliance for the Chesapeake Bay, Chesapeake Conservancy, Western Pennsylvania Conservancy, and others to conduct outreach to streamside landowners to implement
2.1.2F Implement a communication/ outreach program to engage a variety of turf owners to plant trees and meadows on their properties.	5K acres of "Urban Forest Expansion" (turf to trees) + 5K acres of "Conservation Landscaping" (turf to meadow).PRPS, DCNR, DEP, agencies and partners, municipalities and parks, etc.	Chesapeake Bay Bay	Brand new program- Coordination, scheduling, lack of funding, etc.	buffers with these EPA and ARPA funds by December 31, 2025. DCNR continues to do buffer outreach on an as-needed basis. We see value in updating our Prime Prospects outreach tool but have not yet been successful in securing the funding necessary to do so. 2020 Update: DCNR, in cooperation with its partners, formed a new Lawn Conversion Advisory Committee in early 2020. This committee includes a variety of partners and stakeholders who will work together to inform future outreach and communications efforts. DCNR also launched a dedicated lawn conversion website in 2020 https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx, and has dedicated a staff person to coordinate this work. 2021 Update: DCNR continues to work with the LCAC to develop outreach materials and a DIY guide to small lawn conversion projects. Some outreach materials will be ready by the end of 2021. But developing a steady stream of implementation funding for lawn conversion implementation projects has been a challenge, which has

Milestone Adjustments (2024 – 2025)

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							Financial	Financial	

							 Their interest in the new program is growing, but DCNR has been unable to implement many projects. As soon as a steady mechanism for funding has been developed, DCNR will reinvigorate outreach efforts around Lawn Conversion. 2022 Update: PA DCNR has received an overwhelming response to small amounts of outreach conducted for the Lawn Conversion program, but establishing a steady funding stream remains a challenge. DCNR accepted grants via the C2P2 Partnerships RFP in the spring of 2022. Awards will be announced in the fall of 2022. The C2P2 Partnership Lawn Conversion grant announcements have been pushed to early 2023. During Fall 2022, DCNR updated the Buffer Grant Opportunity under DCNR's C2P2 grants to now include lawn conversion, under the Community and Watershed Forestry (CWF) Grant Opportunity, which also will fund buffers and TreeVitalize. DCNR will award eligible applications for lawn conversion grants were received from partners. DCNR will award eligible applications with state funds, as well as a portion of the \$727,000+ of EPA infrastructure funds set aside for lawn conversion work. These lawn conversion grants awards will be announced in early 2023. 2023 Update: Demand for Lawn Conversion projects from landowners outpaces funding capacity. Lawn Conversion practices have been incredibly popular. Additional active outreach to new landowners is not needed at this time, until additional funding can be secured for implementation. The Pennsylvania Association of Conservation 	
							Districts applied for and received a C2P2 CWF grant that allows them to distribute Lawn Conversion mini-grants to County Conservation Districts. DCNR will focus outreach over the next several years on increasing partner capacity vs. landowner demand to help better balance technical assistance and funding capacity when compared to demand.	
2.1.3F	Communicate the importance and values of forests and	Increase conserved lands both in the headwaters of the PA Chesapeake Bay	DCNR, DEP, PALTA, etc.	Chesapeake Bay	By 2023	Coordination, scheduling, lack of funding.	2020 Update: DCNR Bureau of Forestry celebrated its 125 th anniversary in 2020; finalized the statewide Forest Action Plan, and is currently drafting a revised strategic plan with a 30-year planning horizon. As part of	

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						The model in the Property of the Action of the State	Financial	Financial	

	farmland to facilitate and encourage state and local land conservation programs.	watershed and near developing areas.							these planning efforts, DCNR conducted public polling on the importance of forests to people, and will incorporate these results into future work. 2021 Update: DCNR continues to engage in numerous communications and outreach events and methods around the importance of forests and conservation, including social media posts <i>Good Natured</i> <i>Pennsylvanians</i> , newsletters such as <i>the Resource</i> , tours, meetings, and other events. Engaging state and local leaders in buffer planting events, including human health benefits: https://www.media.pa.gov/pages/DCNR_details.aspx?newsid=739, https://www.media.pa.gov/pages/DCNR_details.aspx?newsid=748. DCNR's work initiated several news articles published in The Bay Journal and Pennsylvania Forests. The Forest Action Plan was completed and announced: https://www.media.pa.gov/Pages/DCNR_details.aspx?newsid=770. A Walk In Penns Woods event occurs annually: https://sites.psu.edu/walkinpennswoods/ 2022 Update DCNR continues all efforts as outlined in the 2020 and 2021 updates, including continuing to finalize the new Bureau of Forestry Strategic Plan, communication and outreach events, <i>Good Natured</i> <i>Pennsylvanians, Resource</i> newsletters, etc. A Walk in Penns Woods events continue to occur annually. 2023 Update: According to a Bay Program <u>Press Release</u> , as of 2022, data collected by the Chesapeake Bay Program show that 9.1 million acres of land in the Chesapeake Bay Program show that 9.1 million acres of land in the chesapeake Bay watershed—roughly 22% of the total land in the region—are permanently protected from development. Pennsylvania currently has the greatest number of protected lands in the watershed at 3.6 million acres.
2.1.4F	Emphasize the full range of benefits & co- benefits of stream and wetland restoration to facilitate	Increased acres of wetlands restored to approximately 400 acres annually; increased feet of stream restoration projects implemented to approximately	DEP and appropriate NGO partners.	Chesapeake Bay	By 2023	Coordination, scheduling, lack of funding.	DEP staff are developing stream restoration training courses for County Conservation District and DEP staff on the	Four Wetlands Encroachments & Training Division (WET) staff and \$40 million in annual project funding to facilitate project implementation.	2020 Update: No additional staff have been added to program complement.The Pennsylvanian's Guide to Permitting for Watershed Improvement Projects was published in December 2020.Program staff participated in CBP's efforts to improve stream and wetland restoration definitions and crediting for Legacy Sediment Removal (LSR) projects (2020 Consensus Recommendations to

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additional	60,000 linear feet			Clean Water		Improve Protocols 2 and
implementation.	annually.			Academy	Eight staff to facilitate	Pollutant Removal Credit
				DEP staff	development of	Reviewed and approved
				reviews of	the banking	completed since last data
				legacy sediment	industry in PA and	linear footage will be rep
				removal	to begin	project began in 2020.
				floodplain	implementation	
				restoration (FR-	of the ILF program	Compensation crediting g
				LSR) projects	in 2021.	Instrument is to occur at
				that are subject		
				to state and	Dedicated funding	2021 Update:
				federal	sources to	Compensation crediting g
				regulations	support	Instrument did not occur
				including	demonstration	and are still in progress a
				Chapter 102,	projects, including	work diligently toward th
				Chapter	monitoring and	Instrument by early 2022
				105/106 and	research of those	submitted progress throu
				Section 401	projects.	urban stream restoration
				Water Quality		permittees to the Chesap
				Certifications.		
				Currently		2022 Update:
				approved FR-		Compensation crediting g
				LSR plans will provide		Instrument did not occur
				•		published its final technic
				approximately 50 acres of		compensatory mitigation achieving this goal, there
				wetland		implement an ILF program
				restoration and		identified this lack of cap
				35,000 linear		Plan," presented to the C
				feet of stream		Board in December 2022
				restoration.		relating to building capac
						goals.
				Chapter		2 00101
				105/Section 401		2023 Update:
				WQC revisions		Introduction to Guiding P
				currently being		training was finalized and
				reviewed will		Two comprehensive web
				further support		were also conducted as p
				implementation		training. Additional more
				of aquatic		Alterations and Effect and
				resource		underway in 2023 and ex
				restoration		
				projects.		

Milestone Adjustments (2024 – 2025)

nd 3 for Defining Stream Restoration edits.)

ed three compensation banking projects data reporting. Wetland acres and stream reported. Initiation of one In-lieu Fee (ILF)

ng guidance and submission of Draft ILF ⁻ at the end of the 2020 reporting period.

ng guidance and submission of Draft ILF cur by the end of the 2020 reporting period as as of 9/29/2021. Program staff continue to d the goal of submitting the Draft ILF D22. As shown in the Numeric Milestones, arough 2021 shows an increase in reported cion, due to increased reporting from MS4 sapeake Bay Watershed Model.

ng guidance and submission of Draft ILF cur as expected. Although the program nnical guidance on the function-based ion methodology, a major step toward ere remains uncertainty if the program can gram without adequate staff capacity. PA has capacity in its 2022 Wetlands "PA State Action he Chesapeake Bay Program Management 022, along with several other action items pacity and achieving Bay-wide restoration

ng Principles of Aquatic Ecosystem Restoration and posted to the Clean Water Academy. webinars and four summary presentations as part of the development and roll-out of this nore in-depth trainings on Watershed and Practitioners Perspective training are d expected to be final in 2024.

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						and the second	Financial	Financial	

							 Staff are assisting with the Post Construction Stormwater Water Management (PCSWM) manual revisions related to stream and wetland restoration, specifically the Floodplain Restoration stormwater control measures. Redrafting of the PCSWM manual language is underway. Compensation crediting guidance was rescinded in January. Work has been on-going on revisions and replacement guidance. completion expected in late 2024. The ILF draft instrument was not submitted due to rescission of crediting technical guidance and lack of dedicated staff commitment. Planned staff positions were removed from the organizational chart indicating that no positions were planned for in the foreseeable future. A new program revisions request is under way for action in 2024. Approximately 33,000 linear feet of stream restoration and 47 acres of wetland restoration have been accomplished in the CB through mitigation banking program to date (2010-2023). Several projects are planned for in 2024. Unfortunately, none of these restored streams and wetlands are credited toward Pennsylvania's annual numeric progress, due to CBP policies precluding mitigation from being credited. Approximately 30,000 linear feet of stream restoration and 17 acres of wetland restoration were accomplished through legacy sediment removal projects in 2023. These implemented projects were verified and reported toward Pennsylvania's annual numeric progress.
2.1.5F	Incorporate outreach as a more fundable activity within C2P2 grants for riparian forest buffers, lawn conversion, and TreeVitalize.	Outreach clearly included as a fundable activity in Round 28.5 and future C2P2 grant rounds.	DCNR	Chesapeake Bay	Begins Spring 2023 or sooner		 2022 Update: This is a new milestone for 2022-2023. DCNR had a special fall grant round during the fall of 2022, under the newly expanded Community and Watershed Forestry grant opportunity. In this special round, outreach activities were clearly fundable activity. This will remain in all future regular and special CWF grant rounds for buffers, TreeVitalize, and Lawn Conversion projects funded by DCNR under the C2P2 CWF umbrella. 2023 Update: Outreach has been fully incorporated as a fundable activity under DCNR C2P2 grants.

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2.1.6F	Develop aquatic resource restoration training for targeted staff including all DEP staff and County partners	Finalize general overview training module and begin presentations for target audiences.	DEP	Chesapeake Bay Watershed	Training developme nt Fall 2021 with implement ation beginning in Fall of 2022	Additional training staff needed. Need outreach and messaging support from other DEP programs to reach target audiences	Wetland program staff and funding for specific subtopic focused modules	Technical and financial	 2022 Update: This is a new milestone for 2022-2023. Training modules are being developed for PA's Clean Water Academy, the first of which is near completion. The plan is to build out a full curriculum that includes several modules into one comprehensive training course. For example, in partnership with Soil Hub, a soils training course entitled "Foundations of Pennsylvania Soils" and, in partnership with LandStudies, "A Case Study – Legacy Sediment Evaluation at OII Creek" were published to the Clean Water Academy in November 2022. Presentations on aquatic resource restoration were also provided to the conservation districts through the annual Conservation District Watershed Specialist conference. 2023 Update: The Introduction to the Guiding Principles of Aquatic Ecosystem Restoration training was finalized and posted to the Clean Water Academy in 2023. Two comprehensive webinars (DEP and CCD) and four summary presentations were also conducted as part of the development and roll-out of this training. Additional more in-depth trainings on Watershed Alterations and Effects and Practitioners Perspective training are underway in 2023 and expected to be final in 2024. Staff also conducted a field tour and presentations on legacy sediment removal focused on comprehensive ecosystem restoration to the Mid Atlantic Wetland Workgroup. Staff presented the Guiding Principles for Aquatic Ecosystem Restoration applied to legacy sediment issues at the National Stream Restoration Conference. In addition, staff participated in various conference initiatives related to performance standards for 	
2.1.7F	Develop mapping resources of dam inventory breach locations for the purpose of targeting legacy sediment impaired wetlands,	Make database of breached dams available in a publicly accessible GIS application.	DEP	Statewide	Beginning 2022	Making database and mapping results available for public use	Wetland program staff	GIS technology support	 compensatory restoration requirements. 2022 Update: This is a new milestone for 2022-2023. This effort is ongoing. 2023 Update: Over 4,000 breached dams were geo-located from Pennsylvania's Dam Inventory Database that represents over 100 years of program information. Work is on-going to present the data to the public for targeting legacy sediment removal in a user- friendly manner via DEP's website. 	

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		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

	streams and floodplains								
2.1.8F	Develop comprehensive restoration strategies at dam removals, including removal of legacy sediment to restore integrated wetlands, streams and floodplain resources	Improve restoration target development for comprehensive aquatic resource restoration.	DEP	Statewide	Beginning 2022	Conventional dam removal planning and design may not include comprehensive aquatic resource restoration targets	Wetland program staff and Growing Greener funding for project demonstrations	Additional funding for project demonstrations	2022 Update: This is a m Removal Workshop with 2023 Update: Coordination and develor removal program efforts long time partners to de strategies has begun and developed. In October 2 staff met with the new M Rivers to discuss compre- dam removal projects. A nation for dam removal more than 250 miles of s reconnected when the O 2023. More information https://www.fws.gov/st pennsylvania#:~:text=Ov e,the%20success%20of%
2.1.9F	Work with SCC to promote their 2022 Stream Crossing Replacement Policy, Design and Installation Standard, and Technical Manual (cross- benefit with building flood resiliency and climate change resiliency, while installing structures with lowered maintenance costs and	Promote stream crossing replacement designs that incorporate stream simulation through the structure, promote bank-full width designs to improve flow and aquatic organism passage.	DEP, SCC, PFBC, PSU	Statewide	April 2022	Traditional crossing designs are cheaper and require less scientific study	PSU Center for Dirt and Gravel Roads, SCC dirt and gravel low- volume roads program, and DEP	Cost-Benefit Analysis to demonstrate longevity and lowered maintenance costs provide long-term savings. Outreach to public and private sector, consultants, state and local governments.	2022 Update: This is a ne presented at SCC annual considerations and prom designs, including impro- costs, and structure long permitting which allows solutions consistent with 2023 Update: Coordination of addition has been on-going. One for DEP staff. Additional of common web-page co standards across agencie

a new milestone for 2022-2023. 2022 Dam vith multiple partners was completed.	
elopment of improved strategies of dam orts are active and on-going. Engagement with develop comprehensive aquatic resource and demonstration projects are being er 2023 Program Staff, as well as BWRNSM w Mid-Atlantic Regional Director for American prehensive restoration strategies related to 5. Pennsylvania continues to be a leader in the val and fish passage projects. For example, of stream and aquatic habitats have been e Oakland Dam was removed in September ion can be found at the link, here: /story/2023-10/largest-dam-removal- eOver%20time%2C%20the%20dam%20becam of%20this%20project	
a new milestone for 2022-2023. In 2022, DEP ual meeting to explain permitting comote the benefits of bank-full width culvert proved flood resiliency, lowered maintenance ongevity. DEP highlighted inherent flexibility in ws for the best possible on-the-ground with PA Law.	
ional DEP training and education and outreach one in-depth and field training session was held nal sessions are being planned. Coordination e contents related to stream crossing ncies is on-going.	

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		2024-2025 Updates	, and a sub-			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
	improved lifespan)									
2.1.10F	Provide trainings and other materials to assist stakeholders needing permits for activities in wetlands and streams.	Remove ambiguity, promote best practices, help practitioners navigate the permitting process.	DEP	Statewide	Ongoing	Demystifying the permitting process and past negative experiences of practitioners.	PA Clean Water Academy, DEP website, in- person field trainings	Funding for in- person field trainings.	2023 Update: This is a new milestone for 2024-2025. In addition to a complete revamping of DEP's Chapter 105 permitting website, DEP has released an interactive tool to help owners of bridges and culverts and others wanting to do debris, trash, or streambed material removal in streams to better understand when a permit may be required. The tool goes into more detail and is designed as a companion to the "Guidelines to Maintaining Streams in Your Community" booklet that was published in November of 2018. Where bridges and culverts are not properly maintained by the owner, there can be problems with erosion and sedimentation within and outside the channel, buildup of debris and bedload materials, increased adverse flooding effects, etc.	2024-2025: This is a new milestone for 2024-2025.
2.1.15	Continue to engage with municipalities and others on the benefits of implementing and maintaining stormwater management practices through web- based trainings, in-person meetings, workshops, etc.	Implementation of stormwater BMPs within MS4 PRPs, construction stormwater permits, and developed areas outside of the scope of the permitting programs	DEP, PMAA, CCAP, Conservation Districts, Penn State	Chesapeake Bay	Ongoing			Limitations on the amount of training that can be developed due to current DEP staff levels.	 Indertails, increased adverse flooding effects, etc. 2020 Update: DEP continues to assist MS4s with permit implementation. DEP has worked with Penn State Extension to produce "Urban Stormwater Basics" training courses that will be published to DEP's Clean Water Academy for public use. The Pennsylvanian's Guide to Permitting for Watershed Improvement Projects was published in December 2020. 2021 Update: DEP continues to assist MS4s with permit implementation. DEP developed guidance on stream restoration crediting (crediting checklists and Clean Water Academy training). Additionally, DEP coordinated with EPA to present a series of MS4 Forums for municipalities located in the Chesapeake Bay Watershed. These forums gave municipalities the opportunity to learn from each other and share lessons learned about BMP project implementation. All of these presentations are posted for permittees to reference on Clean Water Academy. As shown in the Numeric Milestones, submitted progress through 2021 shows an increase in reported urban stream restoration, due to increased reporting from MS4 permittees to the Chesapeake Bay Watershed Model. Additionally, MS4 communities receive funds through the Growing Greener Plus and CAP Implementation Grant programs to install BMPs that are identified in Pollutant Reduction Plans and Countywide Action Plans. 	

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		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

						2022 Update: DEP continues to engage with permittees to provide comments on proposed BMP projects. DEP coordinated with PACD through a "mini-grant" program to develop a series of short training videos on the O&M and inspection of three BMP types. These videos have been posted to Clean Water Academy. The intent of these videos is to provide permittees guidance for assessing the maintenance needs of the BMPs in their PCSM BMP inventories. DEP intends to continue this coordination with PACD as funding and staffing allows.
						2023 Update: In addition to the web-based training and guidance documents available on DEP's website, DEP continues to engage with permittees to answer questions and provide feedback on proposed BMP projects.
2.1.25	Provide more awareness of the expanded opportunities for BMP implementation in connection with the MS4 permit requirements	Demonstrate success in improvements to local water quality using the MS4 Flexibilities	DEP, EPA	Statewide	Begins October 2019	 2020 Update: DEP has been in discussions with partners in Lancaster County for several potential projects that may utilize the flexibilities DEP has provided MS4s to work with the agricultural sector. 2021 Update: DEP continues to respond to inquiries from permittees looking to implement BMP projects within the expanded opportunity areas. DEP Southcentral Regional Office has scheduled weekly pre-application meetings for York and Lancaster counties to bring their proposed projects and includes their MS4 permitting chief in those meetings as well as the Waterways and Wetlands Program staff. More information regarding the MS4 flexibilities is available under FAQ #69 at: https://files.dep.state.pa.us/Water/BPNPSM/Stormwater/Managem ent/MunicipalStormwater/MS4 FAQ.pdf 2022 Update: DEP continues to respond to inquiries from permittees looking to implement BMP projects within the expanded opportunity areas to meet the load reduction obligations of their PRPs. 2023 Update: DEP continues to answer project specific questions from permittees interested in implementing BMPs within the expanded opportunity area projects that have been successful in generating

Action #	Description	Performance Target(s)	Responsible Party(ję <u>s</u>) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and <mark>2024-2025 Updates</mark>	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
									MS4 credit have demonstrated that the proposed project goes above and beyond what is required by all other applicable regulatory requirements.	
2.1.35	Track and incentivize MS4 and nonpoint source coordination and collaboration	Document utilization of MS4 and nonpoint source flexibility through PRPs and Annual Reports Incentivize collaborative approaches through Countywide Action Plan (CAP) development and implementation funding and support	DEP, Chesapeake Bay Counties, MS4s	Statewide	Begins October 2019				 2020 Update: MS4s submitted annual reports on or before 9/30/2020 and revisions to PRPs to incorporate flexibilities are possible in the future. 2021 Update: DEP strongly supports joint or collaborative efforts for BMP projects to satisfy other MS4 permit obligations. The Collaboration section of DEP's MS4 website was updated this year to include recommendations on developing written agreements to guide collaborations, and list examples of permittees who are part of collaborative efforts. CAP development and implementation has led to strengthened partnerships across sectors. 2022 Update: DEP continues to support collaborative efforts for BMP implementation. Any permittee proposing a collaborative project is encouraged to reach out to the appropriate DEP regional office to discuss the collaboration. DEP has formed a stakeholder workgroup to discuss the next version of the PAG-13 General Permit where incentives for collaboration will be on the agenda. 2023 Update: DEP continues to answer project specific questions from permittees interested in implementing collaborative BMPs. DEP is looking at ways to incorporate feedback on incentivizing collaboration received from the PAG-13 General Permit Workgroup into the future permit. 	
2.1.45	Continue dialogue with EPA regarding expanding opportunities for MS4 implementation		DEP, EPA	Statewide	Ongoing				 2020 Update: This collaboration with EPA is ongoing. 2021 Update: DEP continues to have ongoing discussions with EPA on this topic. DEP also has discussed this topic with county CAP leaders and municipal officials. 2022 Update: 	

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		2024-2025 Updates	Partnersmps			Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)	(2024 2025)

							Discussions with EPA on 2020 Census-defined urb how any changes to the of MS4 permittees in fut 2023 Update: Discussions with EPA are discussion with EPA on c 2020 Census and is await
2.1.55	Work with partners to develop and implement voluntary Urban Nutrient Management (UNM) Plans.	Identify priority initiative in Countywide Action Plans and work together to develop templates and curriculum, as needed.	Chesapeake Bay Counties, Penn State Extension, Chesapeake Stormwater Network	Chesapeake Bay watershed	Beginning 2022		2022 Update: DEP provid Management (UNM) Pla one-on-one meetings to Plans into county nutrier have drafted UNM Plans meadows from turf and the 2023 Update: DEP worked with county examples from Maryland Several counties have created part of larger County Cor County is working with the development of a UNM for In addition, Pennsylvania of Plant Industry develop Protecting Our Streams" They also published a she on fertilizer use. Newsletter: https://www.agriculture ments/Newsletter.pdf Video for Homeowners:

on this topic are ongoing. DEP is awaiting the urbanized area (UA) mapping to determine ne census data will impact the planning area future permit terms.	
are on-going. DEP has had preliminary n changes to the urban areas as a result of the vaiting further guidance from EPA.	
ovided guidance and example Urban Nutrient Plan templates to local CAP Coordinators in to begin the process of incorporating UNM rient reduction strategies. Multiple counties ans as part of the establishment of pollinator and farmland.	
nty partners to develop UNMs, utilizing and. created Urban Nutrient Management Plans as Conservation Landscaping Programs. Adams h the National Park Service on the M for Gettysburg National Park.	
nia Department of Agriculture (PDA) Bureau loped a newsletter – "Be Green While ns" – which has also been shared with MS4s. short video for the public audience focused	
ure.pa.gov/Plants_Land_Water/Fertilizer/Docu f	
rs: <u>PAcast</u>	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
2.1.65	Work with partners to ensure that PA Golf Courses have access to the <u>GCSAA Best</u> <u>Management</u> <u>Practices for</u> <u>Pennsylvania</u> <u>Golf Courses</u> , published in October 2020	Ensure access to the publication and review the publication to identify how golf course activities and implementation of the BMPs can be captured and credited toward annual progress.	DEP, Penn State, EPA CBPO, Chesapeake Stormwater Network	Chesapeake Bay watershed	Beginning 2022				 2022 Update: DEP submitted the GCSAA BMP Manual to CBPO for consol of crediting the BMPs identified in the manual toward nusediment reductions. Based on feedback provided, there current "crosswalk" to credit the implementation of the Pas Urban Nutrient Management) as identified in the GCS/Manual, although it was thoroughly vetted by the regulat agencies prior to publication. EPA announced a partnerson the GCSAA, however further work conducted by the part needed to fully account for golf course and turfgrass manacross the watershed. 2023 Update: No further update for 2023. Awaiting more work to be do CBP.
Section 3 3.1.1	, Countywide Acti Continue to develop and collaborate on communication and outreach strategies to support CAP implementation in all counties, with a particular focus on Tier 3 and 4 counties.	Ons Webinars and calls to provide overview of WIP, define the expectations, and discuss implementation next steps with Tier 3 & 4 counties. Designed to prepare these counties for CAP implementation.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication and Engagement Workgroup, External Contractor, DEP Region CAP Support Teams	Tier 3 & 4 counties	Ongoing	DEP/state staffing limitations and funding limitations around human resource needs Continued participation and engagement of counties due to staffing and funding limitations Funding for CAP implementation	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 2</i> columns below	 2020 Update: DEP created DEP Regional CAP Support Teams in the Nor Northcentral, and Southcentral regions to aid DEP Chesal Office (DEP) in outreach and support to the Tier 3 and 4 C With their support, DEP conducted webinars and extensi outreach to Tier 3 and 4 conservation districts, planning commissions, and county commissioners. The DEP conducted a Region CAP Support Team Worksho educate DEP region staff on the WIP and CAP project. DE Region CAP Support Teams conduct weekly calls to addre concerns and questions that arise from the outreach to t and 4 counties, as well as calls with county leaders. The DEP created an extensive library of resources and co DEPs Clean Water Academy that serves as an information document sharing portal for the Tier 3 and 4 counties. 2021 Update: The DEP and the DEP Region CAP Support Teams met wit 3 and 4 counties to secure their participation in the deve a CAP. This led to a 100% participation from the Tier 3 an Counties. The DEP conducted the 2nd Coordinator Training Academ virtual format due to COVID-19 constraints for the Tier 3

nsideration nutrient and ere is no he BMPs (such CSAA BMP ulatory ership with artnership is nanagement e done by the Northeast, sapeake Bay 4 Counties. nsive ng shop to DEP and the dress o the Tier 3 courses on tion and with the Tier evelopment of 8 and 4 emy in a fully r 3 and 4 what the CAP

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		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
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		development process looks like, what resources are available, and how to write their CAPs.
		The Tier 3 and 4 FAQs and Coordinator Grant FAQs were expanded to CAP Technical, CAP Grant, and County CAP FAQs, and were utilized as ever-expanding documents where all questions from the counties are addressed.
		The DEP created three resource email accounts: Pilot and Tier 2 counties, Tier 3 and 4 counties, and CAP Grants. This allows the DEP to better track all questions from the counties and maximizes efficiency in response with limited staff resources.
		DEP developed a CAP Project Tracking spreadsheet to track projects, milestones, and contacts and shares it with internal team members using an easy to access system.
		DEP maintains and continually updates the extensive library of materials on the CWA. Given the volume of materials available to counties, DEP reorganized the CWA materials for a more user- friendly experience.
		2022 Update: DEP meets monthly with each Tier 3 and 4 county groupings to discuss implementation project statuses, to problem solve any hurdles that have arisen, and to provide an updates and announcements from DEP.
		DEP provided Implementation Workshops, organized by DEP Region for the Tier 3 and 4 counties to help counties get set up for successful implementation of their CAPs.
		DEP Region CAP Support Teams continue to support Tier 3 and 4 counties by facilitating the monthly meetings, assisting with permitting questions, assisting with press announcements, and general topic specific help.
		The Tier 3 and 4 counties completed their first Annual Progress Report. DEP provided feedback to assist the counties with documenting all of their good work.



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									 2023 Update: DEP meets monthly with each Tier 3 and 4 county groupings to discuss implementation project statuses, to problem solve any hurdles that have arisen, and to provide an updates and announcements from DEP. DEP hosted 6 Webinar Wednesday meetings to provide education and information to county partners. Tier 3 and 4 counties completed their first 2-year milestone update. DEP provided feedback to assist counties in identifying updates to their CAPs, and in encouraging counties to share their successes. 	
3.1.1(i)	Create and utilize living Frequently Asked Question documents for technical, coordinator, and grant questions from CAP county partners and provide access to CAP coordinators to assist with disseminating information broadly and consistently.		DEP	Chesapeake Bay watershed	Ongoing				 2022 Update: DEP created and regularly maintains three (grants, technical, and coordinator) Frequently Asked Questions (FAQ) Documents to assist CAP coordinators. The FAQs are updated with questions that are posed by the counties, as well as by DEP to share consistent messaging and answers. The questions and answers are made generic and go through an internal review process before they are released. Each time an FAQ is updated, it is shared with the county partners and Region CAP Support Teams through an established weekly email update, and is also updated on the CWA Resources Tab. 2023 Update: DEP continues to maintain three FAQ documents: Coordinator, Technical, and Grant. Questions are generated by county partners as well as information DEP wishes to share. DEP continues to share updated FAQs via the weekly Friday email as well as the Clean Water Academy Resources tab. 	
3.1.2	Conduct outreach via webinars and one-on-one meetings to provide support to the counties through the	Tier 3 & 4 county regional groupings continue CAP implementation utilizing their assigned external coordinator and DEP. the DEP	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup,	Tier 3 & 4 counties	Ongoing	State staffing support No new dedicated funding streams County staffing issues may hinder county abilities to	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 2</i> columns below	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 2</i> columns below	2020 Update: The DEP Regional Support Teams and the DEP Chesapeake Bay Office has conducted several outreach meetings with each of the 26 Tier 3 and 4 counties, to present the Countywide Action Planning (CAP) process, answer questions, troubleshoot issues, present materials, and work through next steps.	

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		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

implementation	Region CAP Support	External	utilize all funds	The Susquehanna River Basin Commission (SRBC) conducted
process.	Team.	Contractor, DEP	that are available	meetings with each county to review their Clean Water Technical
•		Region CAP	due to staff	Toolbox and answer technical questions.
		Support Team	concerns, based on	
			experience with	DEP has developed several Tier 3 and 4 and Coordinator Grant FAQs
			Pilot and Tier 2	to assist the Tier 3 and 4 counties.
			counties.	
				The Tier 3 and 4 counties have organized into 10 regional groups.
				Each of these 10 groups will share a coordinator position. Grant
				applications for each coordinator position have been submitted.
				2021 Update:
				The Tier 3 and 4 counties have completed and submitted their
				CAPs, with 30 counties completing individual CAPs and 4 counties
				completing a regional CAP.
				The DEP, with assistance from Consulting with a Purpose,
				developed a comprehensive timeline with key benchmarks
				identified to assist the counties with strategically planning through
				and past the CAP planning process.
				and past the CAL planning process.
				DEP Chesapeake Bay Office staff established biweekly Touchbase
				Tuesday webinars designed to meet with the coordinators and
				county lead entities to provide trainings and opportunities for
				collaboration. DEP Chesapeake Bay Office and DEP Region CAP
				Support Teams transitioned from the Touchbase Tuesdays to
				monthly calls with the county groupings to provide more
				individualized support as the counties began finalizing their CAPs.
				These monthly calls will continue through implementation. The
				Touchbase Tuesday calls are being utilized for larger trainings as
				needed.
				The Susquehanna River Basin Commission ran the counties' BMP
				scenarios through CAST as they developed their CAPs, and provided
				presentations showing the anticipated results, as well as a
				comparison to the state WIP workgroup recommendations. These
				comparisons gave the counties feedback for where they may want
				to focus their BMP efforts.
				2022 Undete:
				2022 Update:
				DEP transitioned the Tier 3 and 4 counties from the biweekly
				Touchbase Tuesday webinars to the established biweekly Webinar
				Wednesdays (used by Pilot and Tier 2 counties) as all counties were
				now in implementation. DEP Watershed Administration and

Milestone Adjustments (2024 – 2025)

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

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2023 Update:
DEP Region CAP Support
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Management. WAAS and
conducted monthly calls v
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comprehensive timeline v
the counties with strategi

Milestone Adjustments (2024 – 2025)

) and DEP Region CAP Support Teams alls with all counties/county groupings to on project statuses, to problem solve any en, and to provide an updates and DEP.

nce from Consulting with a Purpose, ensive timeline with key benchmarks e counties with strategically planning through ts, Annual Progress Reporting and Two-Year

er Basin Commission ran the Tier 2 counties' th CAST as they developed their two-year ded presentations showing the anticipated imparison to the state WIP workgroup lese comparisons gave the counties feedback rant to focus their BMP efforts for the next

ort Teams were restructured to best support se teams are now comprised of the DEP ation and Accountability (WAAS) project hed Manager, and a DEP Conservation District All staff report centrally under the DEP Restoration and Nonpoint Source and DEP Region CAP Support Teams alls with all counties/county groupings to on project statuses, to problem solve any en, and provide updates and announcements

er Basin Commission (SRBC) provided BMP e Pilot and Tier 3 and 4 counties to assist ty two-year milestones and provided the nese comparisons gave the counties feedback ant to focus their BMP efforts for the next

rom Consulting with a Purpose, developed a ne with key benchmarks identified to assist tegic planning through implementation,

Action #	Description	Performance	Responsible	Geographic	Expected	Potential	Resources	Resources	
		Target(s)	Party(ies) and	Location	Timeline	Implementation	Available	Needed	
		and	Partnerships			Challenges or			E.S
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
						15040614060140054666005464690	Financial	Financial	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
									grants, Annual Progress Reporting and Two-Year Milestone reporting.	
3.1.3	CAP implementation across Pilot, Tier 2,3 and 4 counties.	External coordinator designated for each Pilot and Tier 2 county to assist with CAP planning and implementation efforts. 2022-2023 Update: there will be an external coordinator designated for each Pilot and Tier 2 county and each Tier 3 and 4 county grouping to assist with CAP progress and implementation efforts. Focus will be on CAP implementation in support of PA's WIP goals. Extensive staff time will be dedicated to WIP/CAP project management and coordination to support counties in CAP implementation and to work with state action leaders in supporting this effort. Continued expansion of services outlined in	DEP, Technical Coordinator, Bay Division, Agencies, Outreach, Communication and Facilitation contractors, External Contractors	Pilot and Tier 2 Counties 2022-23 Update: Pilot, Tier 2, 3 and 4 counties	Begins January 2020	State staffing support Internal and External Coordination limited due to funding limitations for human resources	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 1</i> & 2 columns below	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 1 &</i> <i>2</i> columns below	 2020 Update: Pilot Counties have begun implementation of their Countywide Action Plans (CAPs). Counties were able to apply for CAP Implementation Grant Funds to support CAP implementation. Lancaster, York, Cumberland and Franklin County received Conservation Excellence Grant (CEG) funding to support implementation efforts. Community Clean Water Action Plan Coordinators were hired to support implementation. Tier 2 counties each hired a Community Clean Water Action Plan Coordinator to support plan development. Tier 2 counties are in the final stages of finalizing their CAPs. 2021 Update: All counties (Pilot, Tier 2,3,4) have finalized and are implementing CAPs. All counties were eligible to apply for CAP Implementation Grant Funds to support CAP implementation. DEP is providing nearly \$17.4 million in CAP Coordinator and Implementation Grant funds for 2022 calendar year (to include EPA Ag and EJ MEB grant funds and CBRAP funds for BMP Verification). Conservation Excellence Grant (CEG) funding is also available to support implementation efforts in several high loading counties. Community Clean Water Action Plan Coordinators continue to support CAP implementation and state funding has been committed and funding requests submitted by counties for 2022. Transitioned to one-on-one meetings with counties to provide individualized attention. Webinar Wednesdays were held as broader topics were raised for the larger group. 2021 webinars included: Water Quality Monitoring Update; Environmental Finance Center Technical Assistance; BMP Verification Deep Dive with EPA; Growing Greener, Section 319 and NFWF MEB Grant Funding Opportunities; CAP Implementation Grant Guidance; BMP Verification, Round 3. The Tier 3 and 4 FAQs and Coordinator Grant FAQs were expanded to CAP Technical, CAP Grant, and County CAP FAQs, and were 	2024-2025: Beginning with 2023 progress cycle, the number of BMPs implemented through the CAP Grant, which are tracked and reported through PracticeKeeper , will be reported in the programmatic progress report.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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the 2021 Milestone		utilized as ever-expanding documents where all questions from the
Update.		counties are addressed.
Region CAP Support		DEP created three resource email accounts for CAP coordination:
Teams will continue		Pilot and Tier 2 counties, Tier 3 and 4 counties, and CAP Grants. This
to support this		allows the DEP to better track all questions from the counties and
effort.		maximizes efficiency in response with limited staff resources.
External		DEP developed a CAP Project Tracking spreadsheet to track
coordinators will		projects, milestones, and contacts.
also continue to be		
funded.		DEP maintains and continually updates the extensive library of
		materials on the CWA. Given the volume of materials available to
		counties, DEP reorganized the CWA materials for a more user-
		friendly experience.
		2022 Update:
		All counties (Pilot, Tier 2,3,4) are implementing CAP projects. All
		counties applied for CAP Implementation Grant Funds to support
		CAP implementation. DEP granted over \$12 million in CAP
		Coordinator and Implementation Grant funds for 2023 calendar
		year.
		year.
		One-on-one meetings with counties provide individualized
		attention and support. Staff are working with state and federal
		agency partners on county programmatic recommendations to
		enhance efforts.
		Webinar Wednesdays continued to address needs across all
		counties. 2022 webinars included:
		03-09-2022 Agriculture BMP Verification – On Site Stagey and Tools
		05-11-2022 CAP Implementation Funding Opportunities
		06-01-2022 Countywide Action Plan Two-Year Milestone Reporting
		06-08-2022 FieldDoc Walkthrough and Update
		06-22-2022 Partners, Projects, and Progress - Behind the Scenes in
		Clearfield, Franklin and Lancaster Counties
		07-13-2022 Countywide Action Plan Annual Progress Reporting
		09-28-2022 CAP Grant 2023 Announcement
		10-12-2022 Using Technology to Assist in Conducting BMP
		Verification
		The CAP Technical, CAP Grant, and County CAP FAQs were utilized
		as ever-expanding documents where all questions from the
		counties are addressed.



Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiersnips			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
							Financial	Financial	Resource email accounts continued to be an important administrative tool for managing work and maximizing efficiency for limited staff across all of Bay counties. DEP utilized the CAP Project Tracking spreadsheet to assure projects across all counties were on track and funds were being spent in the designated 12-18 month timeframe. Trainings were added to the Clean Water Academy. 2023 Update: All counties (Pilot, Tier 2,3,4) continued implementing CAP projects. 176 implemented BMPs funded in whole or in part by the CAP Implementation Grant were verified and reported toward Pennsylvania's annual numeric progress. All counties applied for CAP Implementation Grant Funds to support CAP implementation. DEP granted over \$19.3 million in CAP	
									Coordinator and Implementation Grant funds for 2024 calendar year. A minimum funding allocation of \$200,000 per county was established due to constructive feedback provided by the counties. One-on-one meetings with counties provided individualized attention and support. Staff continue to work with state and federal agency partners on county programmatic recommendations to enhance efforts. Webinar Wednesdays continued to address needs across all counties.	
									 The CAP Technical, CAP Grant, and County CAP FAQs were utilized as ever-expanding documents where all questions from the counties are addressed in a consistent and standardized manner. Resource email accounts continued to be an important administrative tool for managing work and maximizing efficiency for limited staff across all of Bay counties. DEP utilized the CAP Project Tracking spreadsheet to assure projects across all counties were on track and funds were being spent in the designated 12-18 month timeframe. Trainings were added to the Clean Water Academy. 	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
									The Chesapeake Bay Watershed Restoration Division hosted its first ever Clean Water Gathering of 80 state program action leaders and county partners to expand efforts to address hurdles and barriers to implementation. One outcome of this meeting was to develop progress teams for the three identified focus areas: Technical and Administrative Assistance; Staff Building/Staff Retention; and Funding/Multi-Grant Coordination. Teams will begin work in 2024.	
3.1.3i	County CAP partners will continue to expand partnerships, projects, and progress efforts.	2024-2025 Update: County partners will join and collaborate with state program action leaders in forming three specific Progress Teams to address identified issues and barriers implementing the CAPs and Phase 3 WIP	DEP, State/Federal Agency Partners, Conservation Districts, and Community Clean Water Coordinators	34 PA Bay Counties	Begins January 2024				2023 Update: This is a new milestone for 2024-2025.	2024-2025: This is a new milestone for 2024-2025.
3.1.4	Seek staffing to support this large-scale coordination and support effort.	and marketing services will t.t. Consulting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Counting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Counting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Counting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Counting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Counting with a Purpose and Green in support of extensive WIP and CAP outreach and engagement needs. Barb Pirot Count and Tier 2 county received \$100,000 in sta Section, <i>Resources</i> <i>Needed Phase 1</i> columns below Barb Pirot Count and Tier 2 county and Tier 2 county received \$100,000 in sta Section, <i>Needed Phase 1</i> columns below Barb Pirot Count and Tier 3 and 4 counties. Two additional Chesapeake Bay Office Coordinators were his support efforts.		 Each Pilot County and Tier 2 County received \$100,000 in state Environmental Stewardship Funds to hire a Community Clean Water Action Plan Coordinator to support CAP implementation. The Community Clean Water Action Plan Coordinator application has been released for Tier 3 and 4 counties. Two additional Chesapeake Bay Office Coordinators were hired to support efforts. 2021 Update: External coordinators have been hired by county partners for each Pilot and Tier 2 county and each Tier 3 and 4 county grouping to assist with CAP planning and implementation efforts. Extensive facilitation support and marketing services were utilized in 2021 through contracts with Consulting with a Purpose and Water Words That Work in support of extensive WIP and CAP 	2024-2025: Additional staff needs have been identified to fulfill Nonpoint Source and grant program objectives within the Chesapeake Bay Watershed.					

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterampa			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

								Progress Report Summary Communities Annual Repo published on the <u>Tracking</u>
								2022 Update: The Chesapeake Bay Offic Restoration and Nonpoint Chesapeake Bay Restorati sections dedicated to Bay Administration and Chesa enhancements to the Bure Watershed Managers and support Bay efforts.
								Funding continued to sup coordinators to assist with efforts.
								Extensive facilitation supp in 2022 through contracts Water Words That Work in outreach and engagement implementation. The 2022 Annual Report can be four testimonial pieces were pre- <u>Handout-06102022 (state Handout-02192021.pdf (state</u>) county and state partners informational pieces inclu Plan Implementation in Per- Water Planning in Pennsyl
								2023 Update: A new Management Techn created and filled to specir responsibilities, including needs have been identifier objectives within the Ches Funding continued to supp
								coordinators to assist w efforts.
	1	A second s	A second s	1 Contraction of the second	1		1	the second se

Milestone Adjustments (2024 – 2025)

nary and the 2020 Healthy Waters Healthy Report. Both of these documents are king Pennsylvania's Progress website.

Office expanded into the Bureau of Watershed point Source Management in fall 2022. A pration Division was created that includes two Bay work: Watershed Accountability and hesapeake Bay Partnership. Staff Bureau include centralizing region-based and Conservation District Field Reps who will

support external county-based CAP with CAP planning and implementation

support and marketing services were utilized acts with Consulting with a Purpose and ork in support of extensive WIP and CAP ment needs during planning and 2021 Healthy Waters Healthy Communities found on <u>PA's Plan</u> website. County partners re published: <u>PADEP-CAP-Testimonialtate.pa.us</u>) and <u>PADEP-CAP-Testimonialdf (state.pa.us</u>) to provide outreach pieces for mers to use with their stakeholders. Other new ncluded "Supporting Local Countywide Action in Pennsylvania" and "Supporting Local Clean ansylvania".

echnician administrative staff position was pecifically handle administrative ling grants and invoicing. Additional staff tified to fulfill NPS and grant program Chesapeake Bay Watershed.

support external county-based CAP with CAP planning and implementation

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

	Delineate and communicate Chesapeake Bay Accountability and Chesapeake Bay Partnership staff roles and responsibilities to county partners for more effective and efficient delivery of services	2022-2023 Update: With the addition of 2 new staff in 2021, DEP will conduct strategic delegation and communication of coordination and project management roles and responsibilities of the 7 total staff members in the two Chesapeake Bay-focused sections.	Bay watershed	February 2022	Extensive facilitation support and marketing services were utilized in 2023 through contracts with Consulting with a Purpose and Water Words That Work and Clean Water Consulting in support of continued WIP and CAP outreach and engagement needs. The 2022 Healthy Waters Healthy Communities Annual Report, which includes county partner testimonials and stories, can be found on PA's Plan website. The monthly Healthy Waters newsletter highlighting PA activities across local, state, federal, public and private partners can be found here: Newsletter (pa.gov) 2022 Update: This is a new milestone for 2022-2023. Staff enhancements to the Bureau include centralizing region-based Watershed Managers and Conservation District Field Reps who will support Bay efforts. Internal coordinators have been assigned to Tier 1, 2, 3, 4 counties as specific points of contact for CAP issues, questions and reporting. A handout was provided to county partners to provide details of staff roles and responsibilities. 2023 Update: Internal coordinators have continued as specific counties' points of contact for CAP issues, questions and reporting. A handout was provided to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created and filled to specifically handle administrative staff position was created analysis and reporting, quality assurance and federal grant manageme	2024-2025: Focus will continue to move toward maximizing efficiency and effectiveness of all processes, including grant management, contractor project management, data analysis and reporting and expanded coordination internally and externally.
9.1.1C	Pennsylvania Climate Impacts	Reduce an additional 1.81	DEP Statewide	Ongoing	2022 Update: The 2021 Pennsylvania Climate Impacts Assessment was released in	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
		delivered to the Chesapeake Bay due to climate change by 2025.A Climate Impacts Assessment for Pennsylvania is conducted every 3 years, per Act 70 of 2008. The most recent Pennsylvania Climate Impacts Assessment can be found on DEP's website: Impacts2022-2023 Update: compilation of 2019 GHG Inventory data will begin.The next Climate Impacts Assessment is anticipated to be released in 2024.							The 2024 Pennsylvania Climate Impacts Assessment is currently under development.	
	Pennsylvania Climate Action Plan	Reduce an additional 1.81 million pounds of nitrogen and 0.095 million pounds of phosphorus delivered to the Chesapeake Bay due to climate change by 2025. A Climate Action Plan for Pennsylvania is conducted every 3 years, per Act 70 of	DEP	Statewide	Ongoing				 2022 Update: The 2021 Pennsylvania Climate Action Plan was released in September 2021. This is a new milestone for 2022-2023. 2023 Update: The Act 70-required 2024 Pennsylvania Climate Action Plan is currently under development, as is the CPRG (PCAP). 	

a Climate Impacts Assessment is currently	
a Climate Action Plan was released in	
is a new milestone for 2022-2023.	
024 Departulyania Climata Action Dian is	
024 Pennsylvania Climate Action Plan is opment, as is the CPRG (PCAP).	

Action #	Description	Performance Target(s) and 2024-2025 Updates	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and	Resources <u>Needed</u> Technical and	(2023 Pr
							Financial	Financial	
		2008. The most							
		recent Pennsylvania Climate Action Plan							
		can be found on							
		DEP's website: PA							
		Climate Action Plan							
9.1.2Ci	Participate in the	Pennsylvania has	DEP	Statewide	Begins				2023 Update:
	Climate Pollution	received a \$3M			March				This is a new milestone
	Reduction	Inflation Reduction			2024				
	Planning Program.	Act-Funded grant to conduct Climate							
	riogram.	Pollution Reduction							
		Planning. A Priority							
		Climate Action Plan							
		(PCAP) is due to							
		EPA by March 1,							
		2024, and a							
		Comprehensive							
		Climate Action Plan							
		is due in July of 2025.							
9.1.3C	Local Climate	Reduce an	DEP	Statewide	Began				2022 Update:
	Action Program	additional 1.81			2020				Currently, 12 local gove
		million pounds of							2022/2023 fiscal year. I
		nitrogen and 0.095							participating municipal
		million pounds of							partner to take on the
		phosphorus							
		delivered to the Chesapeake Bay							2023 Update: DEP Energy Program Of
		due to climate							State Sustainability Inst
		change by 2025.							course of the full progra
									greenhouse gas invento
		The Local Climate							reports or draft Climate
		Action Program							are continuing with the
		provides technical							of the participants that
		assistance to local							are planning on continu
		governments to							to fully complete/adop
		develop local							
		greenhouse gas inventories and							
		climate action							
		plans. More							

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
e for 2024-2025.	2024-2025: This is a new milestone for 2024-2025.
vernments are participating in the program for Draft climate action plans are due from alities in June 2023. DEP is working to find a program for future years.	
Office (EPO) is now collaborating with Penn stitute to deliver the LCAP program. Over the gram year, all 12 of the participants completed tories, 10 have produced final progress te Action Plans, and two of the participants the LCAP program into the next cohort. Several at have produced climate action plan drafts muing to work with DEP in a CAPstone project pt them.	

Action #	Description	Performance Target(s)	Responsible Party(jes) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
						12-2021030100000000000000000000000000000	Financial	Financial	

		outreach, funding, and technical					
		through education, outreach, funding,					
		Pennsylvanians					
		health of					
		environment and					
		improving the					
		resilience while					
		security and					
		technologies, and provide energy					
		clean energy					
		efficiency, advance					
		conservation and					
		support energy					
		obligations to					
		EPO in fulfilling its					
		intended to guide					
		The CEP Plan is					
		change by 2025.					EPO released the updat
		due to climate					2023 Update:
		Chesapeake Bay					
		delivered to the					is anticipated to be com
		phosphorus					successes since 2020 an
	(CEP) Plan	million pounds of					EPO is developing an up
	(EPO) Clean Energy Program	nitrogen and 0.095					to better align Departm milestone for 2022-202
	Programs Office	additional 1.81 million pounds of					DEP released the CEP Pl
9.1.4C	DEP Energy	Reduce an	DEP	Statewide	Ongoing		2022 Update:
0.1.40		Program Declaration		Chatavilla	Onesiae		2022 Undeter
		Climate Action					
		website: Local					
		found on DEP's					
		the program can be					
		information about					

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
Dian in Neurophan 2020 and becaused the plan	
P Plan in November 2020 and has used the plan tment goals and programs. This is a new 023. update to the CEP Plan, which will identify and priorities through 2025. The updated CEP ompleted by the end of 2022.	
lated CEP in December of 2022.	
21 PA GHG Inventory report (2018 data year) new milestone for 2022-2023. The 2022 PA	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)	
	Greenhouse Gas Inventory	million pounds of nitrogen and 0.095 million pounds of phosphorus delivered to the Chesapeake Bay due to climate change by 2025. The GHG inventory is updated annually, per Act 70 of 2008, and published mid-year on DEP's website: GHG Inventory		opportunities to shorten the lag time between data availability and report publication.				GHG Inventory report (2019 data year) is complete, published 10/6/22. 2023 Update: The 2023 PA GHG Inventory report (data years 2005-2020) wa published December 2022.			
ection 1() Communication	and Engagement Stra	tegy								
10.1.2	Develop the outreach materials, webinars, templates for letters and mailings and success stories identified by the Communications and Engagement (C&E) Workgroup for their use in message delivery and outreach.	Final materials will be distributed to the C& E Workgroup materials as they are finished for their use.	DEP/DCNR/PDA Communication Office, DEP		Completed December 2022		\$200,000		 2020 Update: Outreach efforts for C&E Workgroup: DEP's contractors, Consulting with a Purpose and Water Words That Work, worked with the C&E Workgroup to identify outreach and engagement needs for local partners in different sectors and geographies, and then worked in coordination with the C&E Workgroup to develop county leader invitation to participate letters and documents, webinars and social media campaigns that were used to explain the WIP and CAP efforts. These materials built the foundation for outreach and engagement for Tier 1, 2, 3 and 4 outreach. Outreach efforts for CAP county coordinators: DEP maintains a contract with Water Words That Work to provide communication support to the Phase 3 WIP. Water Words That Work has produced communication templates, PPTs, brochures and training to county coordinators to support local efforts. Water Words That Work continues to provide communication support for state lead efforts. DEP Communications Office developed talking points document for integrated messaging at county and state levels. Used by all counties. 2021 Update: Extensive facilitation support and marketing services were utilized in 2021 through contracts with Consulting with a Purpose and Water Words That Work in support of extensive WIP and CAP 	2024-2025: Milestone was completed in 2022.	



Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
									outreach and engagement needs during planning and implementation. DEP's Communications Office provided support through interviews,	

Utilize facilitation support and marketing services with Consulting with a	DEP	Ongoing	Extensive facilitation support and marketing services were utilizedContin 2022 through contracts with Consulting with a Purpose andeffor	
			implementation. throw varies	ough
Consulting in support of extensive WIP			media events and news releases highlighting Phase 3 WIP and CAP progress and efforts.	
and CAP outreach and			The 2021 Healthy Waters Healthy Communities Annual Report can be found on PA's Plan website. County partners testimonial pieces	
engagement			were published: PADEP-CAP-Testimonial-Handout-06102022	
needs.			(state.pa.us) and PADEP-CAP-Testimonial-Handout-02192021.pdf (state.pa.us) to provide outreach pieces for county and state	
DEP's			partners to use with their stakeholders. Other new informational	
Communications			pieces included "Supporting Local Countywide Action Plan	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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				1			
	Office will						Implementation in Pennsylvania" and "Supporting Local Clean
	provide support						Water Planning in Pennsylvania".
	through						
	interviews,						2023 Update:
	coordinating						Extensive facilitation support and marketing services were utilized
	media events,						in 2023 through contracts with Consulting with a Purpose, Green
	and news						Words Consulting and Water Words That Work in support of
	releases						extensive WIP and CAP outreach and engagement needs.
	highlighting						
	Phase 3 WIP and						DEP's Communications Office provided support through news
	CAP progress						releases highlighting Phase 3 WIP and CAP progress and efforts.
	and efforts.						
							The 2022 Healthy Waters Healthy Communities Annual Report can
							be found on <u>PA's Plan</u> website.
							be found on <u>investice</u> .
							The monthly Healthy Waters newsletter highlighting PA activities
							across local, state, federal, public and private partners can be found
							here: <u>Newsletter (pa.gov)</u>
10.1.3	Finalize the DEP Final S	StoryMap	DEP		Completed	\$20,000	2020 Update: 2024-2025:
10.1.5	Web-based	norywap	Communication		December	\$20,000	Launched story map focused on public education during Milestone v
			Office		2022		
	StoryMap.		Office		2022		Chesapeake Bay Watershed Awareness Week in June. Promoted via completed
							press release, a social media campaign, and stakeholder outreach. 2022.
							Over 3,500 views since launch. <u>Healthy Waters, Healthy</u>
							<u>Communities.</u>
							2021 Update:
							Completed in 2020 and will be incorporated in the 2022 Integrated
							Water Quality Report story map in 2022.
							2022 Update:
							Incorporated into the 2022 Integrated Water Quality Report story
							map in 2022.
							2023 Update:
							Milestone Complete.
10.1.4		ntations and	C & E Workgroup	Chesapeake	As needed		Milestone Complete. 2020 Update:
10.1.4	participate in summa	aries of such	members;	Chesapeake Bay	As needed		Milestone Complete. 2020 Update: DEP worked with the Bay Local Government Advisory Committee
10.1.4	participate in summa focus groups, events	aries of such s and the	• •		As needed		Milestone Complete. 2020 Update:
10.1.4	participate in summa focus groups, events	aries of such	members;		As needed		Milestone Complete. 2020 Update: DEP worked with the Bay Local Government Advisory Committee
10.1.4	participate insummafocus groups,eventsforums andinput p	aries of such s and the	members; DEP/DCNR/PDA		As needed		Milestone Complete. 2020 Update: DEP worked with the Bay Local Government Advisory Committee and participated in WIP listening sessions conducted by LGAC.
10.1.4	participate insummafocus groups,eventsforums andinput p	aries of such s and the provided will ared as	members; DEP/DCNR/PDA Communication		As needed		Milestone Complete. 2020 Update: DEP worked with the Bay Local Government Advisory Committee and participated in WIP listening sessions conducted by LGAC.
10.1.4	participate insummafocus groups,eventsforums andinput pworkshops, asbe sha	aries of such s and the provided will ared as	members; DEP/DCNR/PDA Communication		As needed		Milestone Complete. 2020 Update: DEP worked with the Bay Local Government Advisory Committee and participated in WIP listening sessions conducted by LGAC. Outreach was also conducted with nonprofit partners.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnersnips			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

						2021 and 2022 Updates: Completed in 2020
10.1.5	DEP and its state and county partners will use the delivery tools developed to reach their respective constituents through mailings, newsletters, their respective websites, conferences, workshops, etc. about the importance of clean water and the goals of the Phase 3 WIP and the CAPs.	Mailings, newsletters, websites, meetings, conferences and workshops are utilized as appropriate to convey the message developed. DEP will continue to publish its informative monthly WIP newsletter, weekly emails to CAP partners, and update the website.	DEP/DCNR/PDA Communication Offices, DEP	Chesapeake Bay	Between now and 2025	 2020 Update: DEP Communications Off monthly newsletter: a go state and county levels ar other areas of the Phase - outreach, subscriptions h 278 in December. C&E Workgroup member above-mentioned outrea mailings (member letters organization websites and 2021 Update: DEP continued to publish renamed <u>Healthy Waters</u> collaborative newsletter s state and county partners and announce various fur Anyone can subscribe to inbox or visit the website DEP provided a weekly er and Action Leaders with of training opportunities that DEP continued to publish renamed <u>Healthy Waters</u> collaborative newsletter s State and county partners and announce various fur Anyone can subscribe to inbox or visit the website DEP provided a weekly er and Action Leaders with of training opportunities that DEP continued to publish renamed <u>Healthy Waters</u> collaborative newsletter s state and county partners and announce various fur Anyone can subscribe to inbox or visit the website DEP provided a weekly er and Action Leaders with of training opportunities that

Office launched the Phase 3 WIP News a go-to resource for the latest updates at the ls and in funding, data and reporting, and ase 3 WIP effort. Through promotion and ns have increased from about 90 in June to	
bers, as well as WIP action leaders utilized creach tools in organization publications and ters, magazines, newsletters, etc) and on and presented at meetings and conferences.	
lish a monthly Phase 3 WIP Newsletter, <u>ters – Pennsylvania. Partnership. Progress.</u> This ter shares updates and progress from federal, ners, and is utilized to share updates from DEP s funding opportunities for the counties. to receive the electronic newsletter in their site to see the monthly archive.	
y email update to county CAP coordinators ith up to the moment funding, outreach and s that are relevant to their CAP work.	
tes the WIP and CAP webpages as new	
lish a monthly Phase 3 WIP Newsletter, <u>ters – Pennsylvania. Partnership. Progress.</u> This ter shares updates and progress from federal, ners, and is utilized to share updates from DEP s funding opportunities for the counties. to receive the electronic newsletter in their site to see the monthly archive.	
y email update to county CAP coordinators ith up to the moment funding, outreach and s that are relevant to their CAP work.	

Action	# Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

					DEP continually updates webpages as new mate
					2023 Update: DEP continued to publis renamed <u>Healthy Water</u> collaborative newslette state and county private updates from DEP and a the counties. Anyone ca newsletter in their inbo
					DEP provided a weekly and Action Leaders with training opportunities t
					DEP continually updates webpages as new mate

Priority Initiative 2: Funding and Resources

Section 2, State Action, Programmatic and Narrative Commitments

providing a funding source or combination	Conservation Excellence Grant	State Legislature, Governor's Office	Session	The Pennsylvania Clean
or combination		Governor's Office		
	providos grants			and signed by the Gover
	provides grants,		2021-2022	State Budget. From this
of funding	loans, and tax		Session	program provides \$8.8 r
sources for the	credits to			to counties and municip
implementation	incentivize			Conservation Assistance
of the Phase 3	agricultural BMPs in			million in funds for best
WIP.	priority			\$8.8 million toward the
	geographies as			toward a new Clean Wa
	found within the			toward the existing Nutr
	WIP.			toward the existing Acid
				apportionment of funds
	Keystone Tree Fund			set to occur in January 2
	 This fund will go 			Nutrient Management f
	toward DCNR's tree			districts beginning Janua
	planting initiatives			Management grant fund
				Plus program, with the s
	Clean Streams Fund			and initial awards made
	implementation of the Phase 3	implementation of the Phase 3 WIP.incentivize agricultural BMPs in priority geographies as found within the WIP.Keystone Tree Fund - This fund will go toward DCNR's tree planting initiatives	implementation of the Phase 3 WIP.incentivize agricultural BMPs in priority geographies as found within the WIP.Keystone Tree Fund - This fund will go toward DCNR's tree planting initiatives	implementation of the Phase 3 WIP.incentivize agricultural BMPs in priority geographies as found within the WIP.incentivize agricultural BMPs in geographies as found within the WIP.incentivize agricultural BMPs in adriant within the wIP.incentivize agricultural BMPs in adriant within the wIP.incentivize agricultural BMPs in adriant within the wIP.incentivize adriant within the wIP.incentivize adriant within the wIP.incentivize adriant within the wIP.incentivize adriant within the wIP.Keystone Tree Fund - This fund will go toward DCNR's tree planting initiativesincentivize adriant within the wIP.incentivize adriant within the wIP.

Progress to Date
(2020 - 2021 - 2022)
And
rogress Updates HIGHLIGHTED



tes the Clean Water Academy, WIP and CAP terial is developed.

blish a monthly Phase 3 WIP Newsletter, <u>aters – Pennsylvania. Partnership. Progress.</u> This tter shares updates and progress from federal, vate and public partners, and is utilized to share id announce various funding opportunities for e can subscribe to receive the electronic box or visit the website to see the monthly

ly email update to county CAP coordinators vith up to the moment funding, outreach and s that are relevant to their CAP work.

tes the Clean Water Academy, WIP and CAP terial is developed.

in Streams Fund was funded by the legislature vernor as part of the FY 2022-23 General Fund nis, the Stormwater Management Grant million toward grants and reimbursements ipalities, the Pennsylvania Agricultural ce Program (ACAP), which provides \$154 st management practices on farms statewide, e existing Keystone Tree Fund, \$22 million /ater Procurement Program, \$22 million utrient Management Fund, and \$4.4 million cid Mine Drainage program. The first ds to county conservation districts for ACAP is 2023, with \$1.5 million of the additional t funds being provided to conservation uary 2023 as well. The Stormwater nds will be rolled into the Growing Greener solicitation slated to be released Spring 2023 de Winter 2023-2024.

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

	Growing Greener III Agricultural Conservation Assistance Program (ACAP)			State agencies are working together to ensure commitment and expenditure of funds are in alignment with the federal requirements for COVID-ARPA, as well as meeting the reporting requirements and deadlines. DEP, PDA, SCC, DCNR, and PENNVEST have been meeting on a monthly basis since September 2022, and will carry that forward through 2023, adding NRCS and NFWF representation to further coordinate funding sources and programs. 2023 Update: As above. Pennsylvania's Senate attempted to provide dedicated funding toward the Clean Streams Fund from another state funding source. However, the appropriations for a dedicated fund did not come to fruition.	
of Agri BMPs t compri and/or increas nitroge reduct throug comple local, s federal profit a	mentationConservationicultureExcellent GrantthatProgram, to includethatProgram, to includeise 60%bundling grantsr 10-foldwith REAP taxse of thecredits and low-eninterest loans intionsTier 1 Counties.ghExpand funding ofstate,REAP tax creditsI, non-and prioritize inandChesapeake Baye fundingWatershed.	PDA, SCC, DCNR, DEP, PENNVEST, EPA, NRCS, Pilot, Tier 1 and Tier 2 counties, non- profit and private entities	Ongoing Beginning July 2020	2020 Update: The vendor for the Center for Water Quality Excellence has been selected and is Keystone Safety Services, Inc. d/b/a Land Logics Group. Contracts have been finalized and a Notice to proceed was issued on November 12, 2020. Next step is to get the virtual center component up and running which is anticipated by May 2021. Also, between now and May 2021 and beyond, the vendor will be doing outreach at events, assuming those events happen, and appropriate COVID safety protocols can be maintained. The physical center through the should be opening June/July 2021. The Pilot will focus on Lancaster and York Counties initially.2024-2025: Beginning V 2023 progri agriculture BMPs implement COVID safety protocols can be maintained. The physical center through the should be opening June/July 2021. The Pilot will focus on Lancaster and York Counties initially.2024-2025: Beginning V 2023 progri agriculture BMPsSCC staff continues to work with staff from the Treasury Department to reinvigorate the AgriLink Loan Program. This existing program previously made more than \$5 million in low interest loans, but has been inactive for approximately 8 years due to lack of funding to "subsidize" these linked deposit loans. This discussion was sidetracked in 2020 due to the challenges presented by COVID. PennVEST has also recently expressed an interest in exploring a linked deposit low interest loan program for agricultural BMPs.programma programs 	g with gress of re nted he nd eeper Doc in the natic the d and is



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Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustment (2024 – 2029
		RCPP, EQIP, CREP,								also be
		and other federal							Pennsylvania DEP announced the Growing Greener Plus awards on	reported in t
		funding programs.							December 30, 2020. More than \$16 million has been awarded to	programmat
									projects in the Chesapeake Bay Watershed, with many of those	progress
		Prioritize up to 50%							projects focused on agricultural Best Management Practices and	report.
		of Growing Greener							forested riparian buffer implementation.	
		funding to nutrient								
		and sediment							2021 Update:	
		reducing practices							PENNVEST continues exploring a linked deposit low interest loan	
		in the Chesapeake							program for agricultural BMPs.	
		Bay Watershed								
		, through Block							In December 2021, the AgriLink Loan Program was relaunched.	
		Grants (CAP							More information can be found here:	
		Implementation							https://www.agriculture.pa.gov/Plants Land Water/StateConserva	
		Grants)							tionCommission/Pages/Agriculture-linked-Low-Interest-Loan-	
									Programaspx	
		Pilot Center for								
		Water Quality							The Center for Water Quality Excellence funded by PENNVEST is up	
		Excellence, which							and running both virtually and with a storefront. 2021–2022	
		will provide							focused on outreach.	
		financial assistance							CEG: The SCC continues with delegation agreements with seven	
		and technical							county conservation districts – Tier 1 - Lancaster and York counties	
		guidance, in Tier 1							and Tier 2 - Cumberland, Franklin, Bedford, Centre and Lebanon	
		Counties.							counties for the implementation of the CEG Program.	
		Prioritize EPA CBIG							The Lancaster and York county conservation districts have been	
		funds for riparian							accepting CEG applications since July 2020. Between July 2020 and	
		forest buffer and							September 2021, the LCCD awarded 27 CEG grants totaling	
		agriculture BMP							\$1,252,434.15. The YCCD awarded 9 CEG grants totaling	
		implementation in							\$49,247.50.	
		Tier 1 and 2								
		counties.							The Cumberland and Franklin county conservation districts began	
									accepting CEG application in January 2021. Between January 2021	
		Utilize EPA "Most							and September 2021, the CCCD awarded 4 CEG grants totaling	
		Effective Basin"							\$427,000. The FCCD awarded 19 CEG grants totaling \$949,640.04.	
		(MEB) funds to								
		cost-share							The Bedford and Centre county conservation districts have been	
		implementation of							accepting CEG applications since March 2021. Between March	
		agriculture BMPs in							2021 and September 2021, the BCCD awarded 1 CEG grant totaling	
		geographic areas of							\$250,000. The CCCD awarded 5 CEG grants totaling \$735,000.	
		highest impact in								
		the Chesapeake Bay							The Lebanon county conservation district has just been included	
		Watershed.							into the CEG program and is in the process of executing a	
									delegation agreement. LCCD has already been in preliminary talks	

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Farmerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

			with 5 operations and e accepted as soon as the
			accepted as soon as the
			All conservation district
			information on the cons
			and flyers distributed to
			in the counties
			Lancaster Farmland Trus
			SCC in October 2020. Ev
			with 5 grant recipients t
			Expansion of REAP Prog
			million allocation for tax
			Approximately 70% of t
			awarded to eligible proc
			watershed. Applicants f
			(including the Chesapea
			equal to 90% of out-of-p
			CEG: The SCC continues
			county conservation dis
			and Tier 2 - Cumberland
			counties for the implem
			The Lancaster and York
			accepting CEG application
			September 2021, the LC
			\$1,252,434.15. The YCC
			\$49,247.50.
			The Cumberland and Fra
			accepting CEG application
			and September 2021, th
			\$427,000. The FCCD aw
			The Bedford and Centre
			accepting CEG application
			2021 and September 20
			\$250,000. The CCCD aw
			The Lebanon county cor
			into the CEG program an
			delegation agreement.

Milestone Adjustments (2024 – 2025)

expect to have 5 applications ready to be ney can begin accepting applications.

ct outreach efforts include posting CEG nservation district's websites and newsletter to agricultural support program organization

rust began a Private Party Partnership with the Ever since the inception LFT has been working s totaling \$900,000.

ogram: Since 2019, REAP continues at a \$13 cax credits providing a total of \$13 million. If the annual allocation of tax credits is roducers and projects in the Chesapeake Bay is from ag-impaired TMDL watersheds eake Bay) are eligible for a REAP tax credit f-pocket costs for some high-priority BMPs.

es with delegation agreements with seven listricts – Tier 1 - Lancaster and York counties nd, Franklin, Bedford, Centre and Lebanon mentation of the CEG Program.

k county conservation districts have been tions since July 2020. Between July 2020 and LCCD awarded 27 CEG grants totaling CCD awarded 9 CEG grants totaling

Franklin county conservation districts began tion in January 2021. Between January 2021 the CCCD awarded 4 CEG grants totaling awarded 19 CEG grants totaling \$949,640.04.

re county conservation districts have been tions since March 2021. Between March 2021, the BCCD awarded 1 CEG grant totaling awarded 5 CEG grants totaling \$735,000.

onservation district has just been included and is in the process of executing a ... LCCD has already been in preliminary talks

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
						The end of the second	Financial	Financial	

	with 5 operations and expect to have 5 applications ready to be accepted as soon as they can begin accepting applications.	
	All conservation district outreach efforts include posting CEG information on the conservation district's websites and newsletter and flyers distributed to agricultural support program organization in the counties.	
	Lancaster Farmland Trust began a Private Party Partnership with the SCC in October 2020. Ever since the inception LFT has been working with 5 grant recipients totaling \$900,000.	
	MEB: 2021 EPA MEB funds provided to DEP have been allocated to Chester County (Ag MEBs) and Lancaster County (EJ MEBs) to implement high priority projects in their CAPs and Pennsylvania's Phase 3 WIP.	
	Of the 2022 CAP Implementation Grant funds allocated to 34 counties in the Chesapeake Bay watershed in December 2021, 89% were approved for agriculture practices and 11% were approved for developed/stormwater practices.	
	2022 Update: Expansion of REAP Program: Since 2019, REAP continues at a \$13 million allocation for tax credits providing a total of \$13 million. Approximately 70% of the annual allocation of tax credits is awarded to eligible producers and projects in the Chesapeake Bay watershed. Applicants from ag-impaired TMDL watersheds (including the Chesapeake Bay) are eligible for a REAP tax credit equal to 90% of out-of-pocket costs for some high-priority BMPs.	
	CEG: The SCC continues with delegation agreements with seven county conservation districts – Tier 1 - Lancaster and York counties and Tier 2 - Cumberland, Franklin, Bedford, Centre and Lebanon counties for the implementation of the CEG Program.	
	From January 2022-December 2022, 111 practices were reported as implemented through the CEG program, including but not limited to: animal waste management systems and associated waste transfers, heavy use area protection and roof runoff structures, grassed waterways and diversions, stream crossings and fence, structure for water control, and animal trails and walkways.	
	Structure for water control, and animal trails and walkways.	



Action	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	(
		2024-2025 Updates	- 2012 - 2012			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

					MEB and IIJA: 2022 EPA N
					have been allocated to pil
					through the existing coun
					program, awarded on Dec
					Growing Greener Plus and
					least 50% of the overall fu
					the counties within the Cl
					grants were awarded to c
					release announcing the av
					Greener Plus award recipi
					2023 Update:
					PENNVEST continues to se
					in a link deposit program.
					continues to provide assis
					assist with bmp implemer
					SCC continues to impleme
					(CEG) program with recor
					including \$2 million in EPA
					incentivize public-private
					made available through th
					implemented agriculture
					CEG program were verifie
					annual numeric progress.
					The 2023 round of Growin
					more than \$4.5 million to
					Bay Watershed, with an e
					year of nitrogen; 5,855 pc
					tons per year of sediment
					stream delisting approach
					through the Growing Gree
					58 implemented BMPs fu
					Greener Grant program w
					Pennsylvania's annual nui
					BMPs were implemented

Milestone Adjustments (2024 – 2025)

PA MEB and MEB IIJA funds provided to DEP o pilot counties (Lancaster, York, and Franklin) ountywide action plan implementation grant December 1, 2022.

and CAP Implementation Grant Programs: At all funding available has been directed toward the Chesapeake Bay. CAP implementation to counties on December 1, 2022, with <u>a press</u> the awards on December 14, 2022. Growing ecipients were notified by December 31, 2022.

to search for banks interested in participating am. The Center for Water Quality Excellence assistance in identifying funding resources to mentation.

ement the Conservation Excellence Grant ecord funding made available in 2023, EPA IIJA Most Effective Basin (MEB) funds to ate partnerships. An additional \$4 million is gh the standard program criteria. 108 ure BMPs funded in whole or in part by the rified and reported toward Pennsylvania's ess.

owing Greener grant program will provide n to 27 projects in Pennsylvania's Chesapeake an estimated reduction of 48,337 pounds per 5 pounds per year of phosphorus; and 4,193 nent. DEP also continued to support the rapid pach in agriculturally-impaired watersheds Greener Watershed Renaissance Initiative.

s funded in whole or in part by the Growing m were verified and reported toward numeric progress, of which more than 45 ted in the agriculture sector.

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Financial	Financial	

						DEP continues to admining Management Program as BMPs funded in whole of reported toward Pennsy more than 55 BMPs were 176 implemented BMPs implementation grant pro- Pennsylvania's annual me BMPs were implemented 399 implemented agricular through the initial Ag Pla Pennsylvania's annual me implemented Nutrient Me reported through the cur administered by PACD.
2.2.1(ii)	Clean Streams Fund: Implement the Agriculture Conservation Assistance Program (ACAP). ACAP would provide a true statewide cost-share program to help implement practices that keep healthy soils and nutrients on the land and out of waterways. Agriculture is an integral part of Pennsylvania's culture, heritage, and economy.	Develop guidelines and allocation methodology; distribute funds in 2023.	SCC, Conservation Districts	Begins Fall 2022		 2022 Update: This is a n 2023, SCC will approve A Allocations. By April 202 administration of the AC The Pennsylvania Clean and signed by the Gover State Budget. From this Assistance Program (ACA million in funds for best The first apportionment set to occur in January 2 districts will enter delegated 2023 Update: ACAP is fully operational committed \$141 million 66 counties. To date, co applications from farm of funding and correspond watershed. In addition, around ACAP, including center in partnership wit Counties have also hired

inister the EPA Section 319 Nonpoint Source and Section 319 grants. 64 implemented or in part by Section 319 were verified and nsylvania's annual numeric progress, of which vere implemented in the agriculture sector. Ps funded in whole or in part by the CAP program were verified and reported toward numeric progress, of which more than 160 ted in the agriculture sector. iculture BMPs were verified and reported Plan Reimbursement Program toward numeric progress. An additional 34 Management Core N and P BMPs were current Ag Plan Reimbursement Program). new milestone for 2022-2023. By January e ACAP Program Guidelines and County 2023, SCC will train county CD staff on the ACAP. an Streams Fund was funded by the legislature vernor as part of the FY 2022-23 General Fund nis, the Pennsylvania Agricultural Conservation ACAP) was created, which provides \$154 st management practices on farms statewide. nt of funds to county conservation districts is 2023. It is anticipated that conservation egation agreements in January 2023. nal. As of the date of this report, the SCC has on through signed delegation agreements with counties have received over \$80 million in m owners across the state. Roughly 70% of the nding applications are located in the Bay on, an entire infrastructure is being built ng creation of a new technical assistance with USDA-NRCS and Penn State University. ed additional staff.

Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
Clean Streams Fund: Nutrient Management Fund was increased. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as including some additional	Develop allocation along with ACAP and CEG program allocations.	SCC, DEP, Conservation Districts		Begins Winter 2022-2023				 2022 Update: This is a new milestone for 2022-2023. Proposals include education for technical assistance, financial assistance in CEG and Agri-link, and other priorities of the Commission. \$1.5 million of this additional funding has been allocated in the 2022-2023 fiscal year to go toward the Nutrient Management technician salary increases. 2023 Update: The increase in funding for the nutrient management program line under Clean Streams Fund is actively being used to boost salaries for counties that administer the Nutrient Management Program through delegation agreements. In addition, the funds are being used to increase CEG program grants to counties for BMPs, fund the work of Stroud Water Research via No-till Alliance and Soil Health Coalition. Funds are being used to supplement PACD's conservation 	
funding to CEG. Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement Program	Develop guidelines and implement funding program.	PennVest, SCC, DEP		Begins Winter 2022-2023				 plan reimbursement program. Funds are being used to update and improve technology. 2022 Update: This is a new milestone for 2022-2023. Lead state agencies met multiple times throughout Fall 2022 to discuss program structure and feasibility. Met with MDE multiple times to gather and compare information related to both pay-forperformance programs. 	
								2023 Update: The PENNVEST Board of Directors adopted the guidelines to stand up the Clean Water Procurement Program at its April 19, 2023 Board Meeting. Application cutoff for the program was September 1, 2023. Contracts are currently under form and legality and review with notification expected in early 2024.	
Clean Streams Fund: Implement the Grants/Reimburs ements to Counties and Municipalities for Stormwater Management Act (Act 167) Planning and	Develop grant guidance and determine staffing needs to support Act 167 Plan review and implementation.	DEP		Begins Winter 2022-2023				 2022 Update: This is a new milestone for 2022-2023. Staff have met multiple times throughout Fall 2022 to develop guidelines for the stormwater management grants and reimbursements program. Guidelines must be in alignment with Act 167 and Chapter 111, respectively. The requisite forms were submitted to GBO to provide information regarding this new program, as it is funded through COVID-ARPA, and information has been received from GBO regarding reporting deadlines and requirements. 2023 Update: 	
	Clean Streams Fund: Nutrient Management Fund was increased. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as including some additional funding to CEG. Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement Program Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement Program	Target(s) and 2024-2025 UpdatesClean Streams Fund: Nutrient Management Fund was increased. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as including some additional funding to CEG.Develop allocation along with ACAP and CEG program allocations.Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement ProgramDevelop guidelines and implement funding program.Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement ProgramDevelop guidelines and implement funding program.Clean Streams Fund: Implement the Grants/Reimburs ements to Counties and Municipalities for Stormwater Management Act (Act 167)Develop grant guidance and implementation.	Target(s) and 2024-2025 UpdatesParty(ies) and PartnershipsClean Streams Fund: Nutrient Management Fund was increase d. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as including some additional funding to CEG.Develop guidelines and implement funding program.SCC, DEP, Conservation DistrictsClean Streams Fund: Implement the Pennsylvania Clean Streams Fund: Implement the ProgramDevelop guidelines and implement funding program.PennVest, SCC, DEPClean Streams Fund: Implement the ProgramDevelop guidelines and implement funding program.PennVest, SCC, DEPClean Streams Fund: Implement the Grants/Reimburs ements to Counties and Municipalities for Stormwater Management Actt (Act 167)Develop grant guidance and determine staffing needs to support Act 167 Plan review and implementation.DEP	Target(s) and 2024-2025 UpdatesParty(jeg) and PartnershipsLocationClean Streams Fund was increased. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as directed as well 	Target(s) and 2024-2025 UpdatesPartylies) and PartnershipsLocationTimelineClean Streams Fund: Nutrical along with ACAP and CEG program allocations.SCC, DEP, Conservation DistrictsBegins Winter 2022-2023Technical Assistance capabilities to implement ACAP and CEG, as well as including some additional funding to CEG.Develop guidelines and implement funding program.Sec, DEP, Conservation DistrictsBegins Winter 2022-2023Clean Streams Fund: Implement the Pennylvania Clean Streams Fund: Implement the Pennylvania Clean Streams Fund: Implement the Grants/Reimburs ered to support Act 167 Plan review and Municipalities and implement Act for Stormwater Management Act (Act 167)Develop grant guidance and dimplement tation.Develop grant guidance and dimplement tation.Develop grant guidance and during implement tation.Develop grant guidance and during implement Act for StormwaterDevelop grant guidance and during implement tation.Develop grant guidance and during implement Act for StormwaterDevelop grant guidance and during implementation.DEPBegins Winter 2022-2023Clean Streams for Stormwater Management Act (Act 167)Develop grant guidance and during implementation.<	Target(s) and 2022-2025 UpdatesParty(jes) and PartnershipsLocationTimelineImplementation Challenges or RecommendationsClean Streams Fund: Nutrient Management Fund was increased. The majority of this increase will be set aside for Technical Assistance capabilities to implement ACAP and CEG, as well as including rome will be set aside for TechnicalDevelop guidelines publications.SCC, DEP, Conservation DistrictsBegins Winter 2022-2023Clean Streams Fund: implement funding to CEG.Develop guidelines funding program.PennVest, SCC, DEP PennVest, SCC, DEPBegins Winter 2022-2023Clean Streams Procurement ProgramDevelop grant guidance and determine staffing needs to support Act 167 Plan review and minglementAct (Act 167)Develop grant guidance and determine staffing needs to supportClean Streams Forstreams Implement the ProgramDevelop grant guidance and determine staffing needs to support Act 167 Plan review and implementAct (Act 167)DEPClean Streams Forstreams Implement tett ProgramDevelop grant guidance and determine staffing needs to support and mentation.Develop and tech avec programDevelop and tech avec programClean Streams Forstreams ProgramDevelop grant guidance and determine staffing needs to support and mentation.Develop and tech avec programDevelop and tech avec programClean Streams ProgramDevelop and tech avec programDevelop and tech avec programDevelop and tech avec programD	Target(s) and 2022-2023 UpdatesPartyligs) and PartmershipsLocationTimeline Implement time Challenges or Recommendation Challenges or Recommendation Uniter Uniter Sumagement ACAP and CEG program allocations.SCC, DEP, Conservation DistrictsBegins Uniter 2022-2023Jame Sec Sec Sec Uniter Uniter Uniter Uniter Sec <br< td=""><td>LocationTimeline Party(igg and PartnershipsLocationTimeline ImplementationAvailable PartnershipsAvailable Technical and Technical and FinancialClean Streams Fund: Nutrient Creams Streams Fund: Nutrient Creams Streams Fund: Nutrient Creams Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Streams Streams Fund: Nutrient Streams Streams Streams Streams Streams Streams Streams Streams Streams Streams Streams Fund: Implement Funding rogram.Develop guidelines Streams Strea</td><td>Image: part (a) and 2023-2023. Update:PerturshipsLocationImagine in patients recommendationsAzailable (Exclassing)Usdate Technical and FinancialUsdate Technical and FinancialUsdate (2023-2023-1023) And (2023-2023-1023)Cons Streams Fund Nutrier Management Fund Nutrier Recassing and CES programSCC, DEP, Conservation and CES program allocations.Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Technical and Fund Nutrier Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Technical and Fund Nutrier Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Technical and increases will be constrained and section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Technical and increase will be constrained and section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Technical and ingreent Action 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002 Section 2002Section 2002<</td></br<>	LocationTimeline Party(igg and PartnershipsLocationTimeline ImplementationAvailable PartnershipsAvailable Technical and Technical and FinancialClean Streams Fund: Nutrient Creams Streams Fund: Nutrient Creams Streams Fund: Nutrient Creams Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Fund: Nutrient Streams Streams Streams Fund: Nutrient Streams Streams Streams Streams Streams Streams Streams Streams Streams Streams Streams Fund: Implement Funding rogram.Develop guidelines Streams Strea	Image: part (a) and 2023-2023. 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Action #	Description	Performance Target(s)	Responsible Party(ję <u>s)</u> and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and 2024-2025 Updates	Partnerships			Challenges or Recommendations	Technical and	Technical and	(2023 Pro
							Financial	Financial	

		Target(s) and <mark>2024-2025 Updates</mark>	Party(jęs) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	<u>Available</u> Technical and Financial	<u>Needed</u> Technical and Financial	(2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Adjustments (2024 – 2025)
2 2 1/1.:1	Clean Streams	Develop grant	DOND		Paging				DEP will make decisions regarding who will receive funding for Phase 2 (plan development). The SCC will stay involved in the Clean Water Procurement process and help to advance performance- based outcomes as a viable option alongside traditional BMPs for non-point source.	
2.2.1(vi)	Clean Streams Fund: Continue to implement the Keystone Tree Fund and disburse funding via Riparian Forest Buffer Grants and TreeVitalize Program	Develop grant guidance and other strategies for funding disbursement; incorporate into C2P2 grant solicitation.	DCNR		Begins Summer 2022.				 2022 Update: This is a new milestone for 2022-2023 DCNR had a special fall grant round in 2022 which is expected to fully expend the Clean Streams Fund allocation of \$8.8 million once awards are announced in early 2023. CWF requirements were fully incorporated into this grant round and will allow any additional future allocations to the Clean Streams Fund to be incorporated seamlessly into future grant rounds. 2023 Update: All \$8.8M allocated to the Clean Streams Fund has been awarded to C2P2 grantees. Grantees are actively working to implement projects with these funds and will continue to do so through the grant end date in 2025. 	
2.2.2	Identify and implement the process and develop and implement specific procedures for the award of "block grants" to the lead planning teams for the implementation of the CAPs.	Policy and procedures and a grant agreement developed for use in the development and award of grants to counties in the implementation of the CAPs	DEP, Comptroller's Office		Begins Fall 2019				 2020 Update: Allocation-based funding program (Community Clean Water Coordinator and CAP Implementation Grants) were developed and approved in Fall 2019 2021 Update: Allocation-based funding program (Community Clean Water Coordinator and CAP Implementation Grants) have been implemented annually since Fall 2019. It takes 4-6 weeks on average, from the time of application submission and the time of award. 2022 Update: Allocation-based funding program (Community Clean Water Coordinator and CAP Implementation Grants) continues to be implemented. This type of grant program was highlighted for the utility and associated efficiencies during the 2022 PA In the Balance conference, held in December 2022. 	
									2023 Update: Allocation-based funding program (Community Clean Water Coordinator and CAP Implementation Grants) continues to be implemented. The flexibility of this type of grant program was	

Progress to Date

Milestone

Action	# Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	<i>17.</i>
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
									extolled during the recent Clean Water Gathering of State Action Leaders and County Partners, held in October 2023. Due to demand and project funding needs, a minimum threshold of \$200,000 was established for the 2023-2024 CAP grant round.	
2.2.3	Initiate allocation of funding utilizing "block grants" to the lead planning and implementation teams of the CAPs	Allocate state and federal funding to Pilot, Tier 2, and Tier 3/4 counties to fund coordinators as well as to accelerate the implementation of their CAPs. Best Management Practices in the CAPs focus on reductions for agricultural, stormwater, and forestry/natural sectors.	DEP, Comptroller's Office		Begins January 2020				 2020 Update: Eight Community Clean Water Coordinator Grants for the Pilot and Tier 2 Counties were provided via PA state Environmental Stewardship Funds (ESF), totaling \$800,000 in the initial year (January-December 2020) and \$1.8 million for Pilot, Tier 2, 3 and 4 counties in second year (January – December 2021). CAP Implementation Grants were provided to the Pilot Counties via CBIG2 in the initial year (January-December 2020) and to the Pilot and Tier 2 Counties via ESF the second year (January-December 2021). Applications for both rounds were submitted by the counties in a four-week open round and awarded in less than six weeks thereafter. 2021 Update: In December 2021, a total of \$17.4 million was awarded for County Coordinators, CAP Implementation Grants, and BMP Verification. EPA Most Effective Basin (MEB) funding was allocated to Lancaster (EJ funding) and Chester (Ag funding). https://www.governor.pa.gov/newsroom/gov-wolf-announces-17- 4-million-to-improve-local-water-quality-for-chesapeake-bay- watershed/ 2022 Update: In December 2022, a total of \$12.2 million was awarded for County Coordinators and CAP Implementation Grants. This included EPA MEB and IIJA funding. https://www.ahs.dep.pa.gov/NewsRoomPublic/articleviewer.aspx?i d=22236&typeid=1 2023 Update: In December 2023, a total of \$19.6 million was awarded for County Coordinators and CAP Implementation Grants. This included EPA MEB and IIJA funding. 	2024-2025: In the 2023 progress report, Pilot, Tier 2, 3, and 4 county items were combined since all CAPs are currently being implemented.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
2.2.3i	Report annual metrics identified through the Pennsylvania Chesapeake Bay Program Countywide Action Plan Implementation Grant Application	2024-2025 Update: Will report the number of projects approved for funding, and the associated estimation of nutrient and sediment reduction for this milestone period.	DEP		Begins November 2023				 2023 Update: This is a new milestone. In the 2023-2024 application period, 226 projects were approved for funding and are estimated to reduce: More than 170,000 lbs/year of nitrogen, 122,000 lbs/year of phosphorus, 36.3 million lbs/year of sediment. Nutrient and sediment reduction estimates were generated through FieldDoc as part of the application process. 	2024-2025: New requirement to estimate reductions in order to apply for funds.
2.2.4	Continue to work with NFWF to fund the Local Government Implementation (LGI) grants	Assist with the development of RFP and review of applications 2022-2023 Update: NFWF anticipates continued coordination with DEP and sister agencies on delivery of Pennsylvania- specific funding streams, including LGI and MEB funding, as well as ongoing coordination for Pennsylvania implementation through the INSR and SWG programs. 2024-2025 Update: The initial milestone was specific to the LGI grant. The milestone commitment for this reporting	DEP		Begins February 2020				 2020 Update: On February 2, 2020, representatives from EPA, DEP, and NFWF met to discuss the PA LGI RFP. Some annual practices were added to the list of Priority practices that could be funded through this grant. NFWF hosted a webinar for LGI grant applicants, which reviewed the RFP and application process on March 17, 2020. Due to the pandemic, the application deadline was extended from April 16, 2020 to April 30, 2020. On June 5, 2020 Staff from EPA, DEP and NFWF took part in a grant review meeting. 2021 Update: In February 2021, National Fish and Wildlife Foundation announced \$1.2 million in grant funding for 8 PA LGI projects that will help improve local waters in Pennsylvania and contribute to the restoration of the Chesapeake Bay. The awards will directly support efforts by local governments and partners throughout the Bay watershed in Pennsylvania to implement water quality projects that reduce polluted runoff from urban, suburban, and agricultural lands. In April 2021, NFWF released the Small Watershed Grant (SWG) Program Request for Proposals. DEP, EPA and NFWF staff participated in review of the applications and included PA LGI criteria for PA implementation projects submitted under the 2021 SWG grant opportunity. The 2021 SWG grant slate will be announced in October 2021. In June 2021, NFWF announced 2021 awards under the Innovative Nutrient and Sediment Reduction Grants program, including nearly \$5 million in awards to Pennsylvania projects, including support for DCNR's forest buffer and conservation landscaping goals, and 	2024-2025: Pennsylvania DEP BWRNSM Chesapeake Bay Restoration Division assumed management of the Local Government Implementatio n Funds allocated to PA effective October 2023, with the most recent CBIG4 grant award. This milestone will be adjusted for the following commitment period for reporting of all NFWF programs awarded to projects in Pennsylvania

Acti	ion #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	() ()
			2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

period will include a report for all NFWF programs and		support for several emergent implementation efforts.
programs and projects funded in Pennsylvania.		In June 2021, NFW release grant program Request for coordination through PA- NFWF engaged DEP and B projects for the programs be announced in Novemb
		2022 Update : The 2021 Chesapeake Ba announced in October 20 \$3,386,806. The 2021 IN 2021. Pennsylvania recei
		On December 3, 2022, Na announced a total of \$27 grant program. As in pre- funding specifically earns government implementar Pennsylvania projects rec and 25 Pennsylvania proj funds. The 2022 INSR gra million toward 4 PA proje awarded \$6.3 million to e
		2023 INSR applications w currently under review.
		2023 Update: DEP staff continue to assi scoring applications. As of Chesapeake Bay Restorat the Local Government Im CBIG4 grant. These funds implementation program Other funds delivered to
		programs include: The 20 2023 and included \$4 M f Chesapeake WILD grant s includes \$1.8 M for four (announcements may be f RFP for these programs p

Milestone Adjustments (2024 – 2025)

nerging CAP-coordinated county-level ts.

eased the Pennsylvania Most Effective Basins st for Proposals. Building from successful PA-LGI funding and the 2021 SWG program, nd EPA staff in review and selection of ams inaugural round. The 2021 MEB slate will ember 2021.

e Bay Small Watershed grant slate was r 2021. Pennsylvania received a total of I INSR grant slate was announced in August eceived \$4,979,700.

, National Fish and Wildlife Foundation \$27.8 million awarded through the 2022 SWG previous years, the SWG grant slate included armarked for Pennsylvania through the local ntation funds (PA-LGI). Of the \$27.8 million, 9 received a total of \$3,498,401 in PA LGI funds projects received a total of \$5,737,884 in SWG grant slate of \$8.9 million provided \$2.4 rojects. The 2022 PA MEB grant slate to eight projects.

s were due November 17, 2022 and are *N*.

As of this year, Pennsylvania DEP BWRNSM oration Division has accepted management of t Implementation Funding through the EPA ands will be delivered through the CAP ram for 2024 toward the Conowingo WIP. to Pennsylvania projects through NFWF grant e 2023 INSR grant slate, announced October M for six (6) Pennsylvania projects; The 2023 nt slate, also announced in October and ur (4) Pennsylvania projects. Some be forthcoming after the decision for the EPA as previously awarded to NFWF.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterampa			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

2 5			2025	
.5	Engage with other jurisdictions regarding interstate	DEP, PennVest, SRBC	2025	2020 Update: PA continues to co-chair the Conowingo WIP (CWIP) Steering Committee and has been in discussions with other jurisdictions regarding the CWIP Finance Structure, as well as potential partnerships related to pay-for-performance strategies.
	trading and cross- jurisdictional financing (e.g. Conowingo)			2021 Update: Letter of Understanding was negotiated with other jurisdictions and SRBC for SRBC to serve as the financial entity for Conowingo WIP funding.
				2022 Update: PA continues to co-chair the Conowingo WIP (CWIP) Steering Committee. Meetings have been held frequently throughout 2022 with MDE, DEP, SRBC, and PENNVEST to discuss cross-jurisdictional financing, including but not limited to the Maryland Conowingo Financing Program and the Pennsylvania Clean Water Procurement Program.
				2023 Update: Weekly meetings have been held with MDE, PA DEP, and NYDEQ to discuss cross-jurisdictional programming and funding related to the CWIP. The PENNVEST Clean Water Procurement Program will be leveraged to fund projects that would be reported toward meeting the CWIP goals.
6	Investigate the potential for and implementation of short-term, low-interest, loans and other financing	PennVest, PDA, DEP	2021 Implement beginning 2022	2020 Update: Meeting held with AG Choice to determine interest in a Link Deposit style program utilizing PENNVEST funds. General support and interest exist among all parties. Structure of a program is being further investigated with a second meeting planned upon gathering of additional information.
	streams for agricultural projects			Additionally, a sublevel revolving loan fund is under discussion with regional planning agencies to provide low interest loans directly to eligible applicants including agriculture in cooperation with local County Conservation Districts. Initial meetings have been held with interest from all parties. Regional planning agencies is assembling terms that can work for them for further discussion.
				SCC staff continues to work with staff from the Treasury Department to reinvigorate the AgriLink Loan Program. This existing program previously made more than \$5 million in low interest loans, but has been inactive for approximately 8 years due

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiteranipa			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

		to lack of funding to "sub discussion was sidetracke by COVID. PennVEST has exploring a linked deposit BMPs.
		The SCC is actively implem Grant (CEG) program thro Cumberland and Franklin pending agreement with Township (Lancaster Cour Total funding for these fix and the SCC received an a November to continue th
		2021 Update: AgChoice link deposit pro do not do certificates of c
		Additionally, a sublevel re discussed with regional p loans directly to eligible a cooperation with local Co meetings have been held planning agencies is asser further discussion. Progre
		SCC staff continued to we Department to roll out th In December 2021, AgriLi information can be found <u>https://www.agriculture.</u> <u>tionCommission/Pages/A</u> <u>Programaspx</u>
		CEG: The SCC continues w county conservation distr and Tier 2 - Cumberland, counties for the impleme
		The Lancaster and York co accepting CEG application September 2021, the LCC

subsidizes" these linked deposit loans. This icked in 2020 due to the challenges presented has also recently expressed an interest in osit low interest loan program for agricultural

blementing its new Conservation Excellence through agreements with Lancaster, York, klin Conservation Districts, as well as a ith Lancaster Farmland Trust and Salisbury County) as a public private partnership pilot. e five CEG agreements is nearly \$6 million, an additional \$2 million in state funds in e this effort.

program is unable to be implemented as they of deposit.

el revolving loan fund continues to be al planning agencies to provide low interest le applicants including agriculture in l County Conservation Districts. Initial eld with interest from all parties. Regional ssembling terms that can work for them for ogress delayed due to COVID.

work with staff from the Treasury t the 2nd edition of the AgriLink Loan Program. riLink Loan Program was relaunched. More und here:

ire.pa.gov/Plants_Land_Water/StateConserva
s/Agriculture-linked-Low-Interest-Loan-

es with delegation agreements with seven listricts – Tier 1 - Lancaster and York counties nd, Franklin, Bedford, Centre and Lebanon ementation of the CEG Program.

k county conservation districts have been tions since July 2020. Between July 2020 and LCCD awarded 27 CEG grants totaling

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and <mark>2024-2025 Updates</mark>	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	<mark>(2023 Pro</mark>

				\$1,252,434.15. The YCCE \$49,247.50.
				The Cumberland and France accepting CEG application and September 2021, the \$427,000. The FCCD awa
				The Bedford and Centre of accepting CEG application 2021 and September 202 \$250,000. The CCCD awa
				The Lebanon county cons into the CEG program and delegation agreement. L with 5 operations and ex accepted as soon as they
				All conservation district of information on the conservation and flyers distributed to a in the counties.
				Lancaster Farmland Trust with the SCC in October 2 recipients totaling \$900,0
				2022 Update: Opportunities continue to which should be more de PENNVEST, DEP, and SCC and Maryland Departmen Pay-for-Performance out Procurement Program. O Spring 2023 approval.
				2023 Update: A sublevel revolving loan with regional planning ag directly to eligible applica with local County Conser- held with interest from a assembling terms that ca

Milestone Adjustments (2024 – 2025)

CD awarded 9 CEG grants totaling ranklin county conservation districts began ion in January 2021. Between January 2021 he CCCD awarded 4 CEG grants totaling warded 19 CEG grants totaling \$949,640.04. e county conservation districts have been ions since March 2021. Between March 021, the BCCD awarded 1 CEG grant totaling warded 5 CEG grants totaling \$735,000. onservation district has just been included and is in the process of executing a LCCD has already been in preliminary talks expect to have 5 applications ready to be ey can begin accepting applications. t outreach efforts include posting CEG servation district's websites and newsletter o agricultural support program organization ust (LFT) began a Private Party Partnership r 2020. LFT has been working with 5 grant D*,*000. to be pursued for a link deposit program desirable with increasing interest rates. CC have met multiple times, along with SRBC nent of the Environment (MDE), to discuss utcomes through the new Clean Water Guidelines are under development for an fund continues to be under discussion agencies to provide low interest loans icants including agriculture in cooperation ervation Districts. Initial meetings have been all parties. Regional planning agencies are can work for them for further discussion.

Action #	Description	Performance Target(s)	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		and 2024-2025 Updates	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

		Target(s) and <mark>2024-2025 Updates</mark>	Party(jes) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	<u>Available</u> Technical and Financial	Needed Technical and Financial	(2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Adjustments (2024 – 2025)
2.2.7	Apply and receive approval for the designation of a new Kittatinny Ridge Sentinel Landscape, bringing new partnerships and resources to the area.	2024-2025 Update: The Kittatinny Ridge Sentinel Landscape (KRSL) proposal was developed and submitted.	DCNR, PGC, USDA, DOD, USFWS	Kittatinny Ridge	Beginning January 2024				The Agri-Link low interest loan program has processed five loans for producers, totaling \$1.1 million in subsidized loans. At the time of this report, SCC and PDA executive office recently met with State Treasurer to discuss expanding REAP to include preserved farms and new and beginning farmers. 2023 Update: This is a new milestone for 2024-2025. For 25 years, the Kittatinny Ridge Conservation Landscape (KRCL) has united partners to protect the largest, healthiest forested landscape in the continental U.S. "The Ridge" is the most biodiverse region in eastern North America and a crucial corridor for rare wildlife, songbird migration, clean water, and carbon sequestration. It also is key to military readiness, as the home of the nation's busiest National Guard training center—Fort Indiantown Gap—and plays a leading role in Pennsylvania's robust agriculture and recreational economies. The Kittatinny Ridge Sentinel Landscape (KRSL) will bring in new partners and resources, fortify the landscape-scale stewardship approach in the face of climate change, and mitigate threats to the military mission.	<mark>2024-2025:</mark> New Mileston for 2024-2025
2.2.8	Grant making under the DCED Watershed Restoration and Protection Program (annually) and the H2O PA and PA Small Water and Sewer Programs (PASWS), when funds are appropriated	Under WRPP, DCED collects final reports from grantees that document the activities, sources of funds and water quality improvements resulting from the project and sends them to DEP. In 2020, PASWS and H2O PA projects started tracking funding by project type (water, sewer, stormwater, and flood control)	DCED	Statewide	Ongoing		WRPP - Act 13 Impact Fees collected annually H2O PA and PASWS – Appropriated funds; currently in process of awarding \$320M of ARPA funds	Given current staff demands, an additional 5 analysts and 1 manager would be needed to accommodate regular investment in H2O PA and PASWS or new programs targeting stormwater and water quality issues	 2020 Update Statewide funding of: WRPP – 17 projects; \$1,673,608 approved PASWS – 271 projects; \$58,484,193 approved (48 projects and \$11,070,224 for stormwater) H2O PA – 47 projects; \$27,925,593 approved (13 projects and \$5,110,075 for stormwater) Funding in Chesapeake Bay Counties: WRPP - 3 projects; \$332,933 approved PASWS – 110 projects; \$23,872,328 approved (12 projects and \$3,045,223 for stormwater) H2O PA – 19 projects; \$11,286,700 approved (4 projects and \$2,031,651 for stormwater) 2021 Update Statewide funding of: WRPP – 10 projects; \$1,035,784 approved Funding in Chesapeake Bay Counties: WRPP – 2 projects; \$334,741 approved No funds appropriated for PASWS or H2O PA 	2024-2025: New Milestone for 2024-2025

Progress to Date

Milestone

Actio	n # Description	Performance Target(s) and 2024-2025 Updates	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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							2022 Update
							Statewide funding of:
							WRPP – 21 projects; \$3,407,495 approved
							Funding in Chesapeake Bay Counties:
							WRPP – 6 projects; \$1,069,409
							**PASWS and H2O PA received appropriations of \$320 million of
							ARPA funds – applications pending
							2023 Update
							Statewide applications received:
							WRPP – 55 applications; \$14,167,189 requested
							PASWS – 964 applications; \$300,675,716 requested (201
							applications and \$61,606,668 requested for stormwater)
							H2O PA – 473 applications; \$1,235,710,508 requested (61
							applications and \$124,241,596 requested for stormwater)
							Chesapeake Bay Counties applications:
							WRPP – 16 applications; \$4,499,216 requested
							PASWS – 401 applications; \$129,165,279 requested (76 applications
							and \$23,399,156 requested for stormwater)
							H2O PA – 208 applications; \$559,883,037 requested (21
							applications and \$62,682,504 requested for stormwater)
							CFA H2O and Small Water and Sewer Projects were announced on
							December 19, 2023
							https://dced.pa.gov/newsroom/shapiro-administration-announces-
							335-million-in-new-investments-to-strengthen-pennsylvanias-
							economy-and-ensure-communities-across-the-commonwealth-
							have-reliable-clean-drinking-water/
							https://dced.pa.gov/download/approved-projects-2023-12-19-
							arpa-h20-small-water-and-sewer-
							programs/?wpdmdl=122828&refresh=6582479a82c0d1703036826
ection 2	State Action Nun	neric Commitments					<u>programs/:wpama=122020&renesn=05024750020001705050020</u>
2.2.1A	Investigate the	Identify various	PDA, SCC, DEP	Chesapeake	December	Capital investment,	2020 Update:
2.2.17	incorporation of	strategies to	Nutrient Trading	Bay counties	2025	cost effectiveness,	DEP, PDA and SCC staff continue to work with Energy Works and
	alternative	minimize nutrient	Program, NRCS	that are	2025	and modeled	other proposed manure treatment technologies to have treatment
	manure	imbalances in areas		identified to		nutrient reduction	technologies properly recognized and credited under the
	treatment	of excess manure		have excess		effectiveness is of	Chesapeake Bay Watershed Model. In addition, several counties
	technologies and			manure		concern.	chesupeake bay watershea wouch in addition, several counties
	teennoiogies allu	nathent		manure		concern.	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

			1		1		
	other potential	generation,		generated for			have identified and prioritized manure transport as a component of
	strategies to	including the		crop need			their County Action Plans (CAPs).
	address areas of	incorporation of					
	excess manure	manure treatment					SCC and DEP have held discussions with and provided information
	nutrient	technologies and					pertaining to animal density and manure production to PennAg
	generation and	manure transport,					Industries and other consultants have occurred as it relates to the
	capital	as they are					transport of manure from two Tier 2 counties.
	investment	determined to be					
	required for	feasible.					SCC and DEP have been in discussions with one Tier 1 county as it
	implementation						relates to better tracking of manure transport within and outside of
	of manure						that county.
	treatment						
	systems						2021 Update:
							The SCC, PDA, and DEP continue to work with EnergyWorks
							(gasification of layer manure), ESPOMA (transport and treatment of
							layer manure to a full line of bagged home use fertilizers), and
							Epcot Crenshaw Corporation/ Stroud Water Research (Bio-char).
							<u>Epect creminaw corporation</u> y stroad watch research (bio char).
							2022 Update: Discussions between Energy Works, DEP, and SCC
							continue. Concern related to the main poultry facility being
							excluded from Bay model due to location in Adams County. CBNTT
							has been released for use for nutrient trading, along with the
							supplemental information, which takes into account the TMDL
							baseline as well as reduces the uncertainty ratio from 3:1 to 2:1.
							2022 Haddeter CCC is combaring actions for the Charge sale Dev
							2023 Update: SCC is exploring options for the Chesapeake Bay
							Program to credit nutrient reductions from manure treatment
							technologies as an alternative to the current method. PDA is
							concerned about the Chesapeake Bay Program creating a
							disincentive for these technologies.
2.2.1A(i)	-		DEP, SCC, PDA,		Beginning	Tracking and	2020 Update:
	incentivize		Lancaster County		2020	auditing of manure	Tracking tools were updated in PracticeKeeper and Nutrient
	increased					hauler/broker	Balance Sheets from manure brokers, received by Conservation
	manure					records	Districts, are to be entered. Continue to reinforce with manure
	transport and						brokers that NBS are to be submitted to conservation districts by
	manure						regulation.
	transport						
	implementation						2021 Update:
	and tracking in						Continue to reinforce with manure brokers that NBS are to be
	counties, such as						submitted to conservation districts by regulation and thus entered
	Lancaster						into PracticeKeeper.
	County, that						
	have been						The SCC has started the process of a regulatory review of the
	identified						Commercial Manure Hauler and Brokers Program.
	identified	1	1	<u> </u>			

Action #	Description	Performance Target(s)	Responsible Party(jes) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
							Financial	Financial	

	through CBPO Modeling Tools to be in excess of organic nutrients					2022 Update: Work is ongoing to ensu districts and entered into ongoing. 2023 Update: Necessar
						SCC Board in 2023.
2.2.2A	Increase funding for Conservation District Nutrient Management Technicians in an effort to reduce staff turnover	2022-2023 Update: Beginning in state fiscal year 2022- 2023, SCC and DEP will increase the full time equivalent (FTE) rate from \$60,000 to \$70,000 using state Nutrient Management Fund and federal Chesapeake Bay Regulatory Accountability Program.	SCC, DEP	Chesapeake Bay/Statewid e	Beginning July 2022	2022 Update: This is a r 2022 state budget inclu Nutrient Management F \$10,000, split between Program (CBRAP) and th ARPA, for full-time equi 2023 Update: Funding made possible by COVID
2.2.3A	Increase funding for Conservation District Chesapeake Bay Technicians in an effort to reduce staff turnover	2022-2023 Update: Beginning in state fiscal year 2022- 2023, DEP will increase the full time equivalent (FTE) rate from \$65,550 to \$70,000 using state Chesapeake Bay Agricultural Source Abatement Fund and federal Chesapeake Bay Regulatory Accountability Program.	DEP	Chesapeake Bay	Beginning July 2022	2022 Update: This is a r Additional funds were a Assistance Program Obj Regulatory Accountabili Chesapeake Bay Agricul this increase. 2023 Update: Funding made possible by COVID
2.2.4A	Increase funding for Conservation District	2022-2023 Update: Beginning in state fiscal year 2022-	DEP	Chesapeake Bay	Beginning July 2022	2022 Update: This is a r

Milestone Adjustments (2024 – 2025)

sary updates to the N	BS were approved by the	
, ,		

new milestone for 2022-2023.

cluded a \$22 million line item increase in the nt Fund. Technician salaries were raised by en Chesapeake Bay Regulatory Accountability d this increase in state funding through COVIDquivalent.

ng increases for full-time equivalents were VID-ARPA funds.

a new milestone for 2022-2023.

e allocated to the Chesapeake Bay Technical Dbjective in the federal Chesapeake Bay bility Program Workplan. Federal and state cultural Source Abatement Fund are used for

ng increases for full-time equivalents were VID-ARPA funds.

a new milestone for 2022-2023.

	Chesapeake Bay Engineer Specialists and Engineer Assistants in an effort to reduce staff turnover	2023, DEP will increase the full time equivalent (FTE) rate from \$86,250 to \$91,900 for Engineer Specialists and					 	
		\$79,350 to \$85,000 for Engineer Assistants using federal Chesapeake Bay Implementation						Additional funds were a Program Objective in th Grant Workplan. Federa 2023 Update: Funding i made possible by Federa Abatement Funds.
2.2.5A	Add up to 5 new NRCS technical assistance support / engineers	Grant. 2022-2023 Update: NRCS and PDA will fund up to an additional five new NRCS personnel to provide additional support for CEG and ACAP projects.	PDA, NCRS	Statewide	December 2023			2022 Update: This is a n with NRCS has been sign 2023 Update: The engineers have bee commingle with EQIP fu engineering firm to wor technical assistance cen announcement forthcor assistance center can be <u>New Training Center for</u> <u>Resources Conservation</u> development of an IFB f coordination with SCC a
2.2.1F	Maximize existing funding sources for riparian forest buffer implementation in Pennsylvania.	Fully utilize existing funding sources for buffer implementation and maintenance annually, including federal, state, and private programs (esp. under-utilized programs such as REAP).	DEP (GG, 319), UDSA (CREP+), SCC (REAP), DCNR (C2P2) TreePennsylvania (TreeVitalize) CBF (K10), etc.	Chesapeake Bay	By 2025	Rigid programs, existing restrictions, coordination, lack of understanding about all individual programs, etc. Lack of funds to start a new program.		2020 Update: See above under 2.2.1. additional opportunities 2021 Update: DCNR is funding buffers Rivers funding, the Envi Keystone Tree Fund. DC oil and gas funding to su projects. DEP funds buff Implementation Grants DEP also continues to w for the <u>PA CREP Program</u>

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
e allocated to the Chesapeake Bay Engineering the federal Chesapeake Bay Implementation eral funds are used for this increase. g increases for full-time equivalents were eral CBIG and State Chesapeake Bay	
a new milestone for 2022-2023. Agreement igned to move forward with hiring engineers.	
een hired to prioritize ACAP projects that funds. In addition, the SCC is funding an ork alongside an NRCS engineer at the new enter. The firm has been selected and coming. More information on the technical be found here: <u>Federal, State Officials Launch</u> for Ag Professionals in Pennsylvania Natural on Service (usda.gov) Additionally, DEP is in B for additional technical assistance in C and NRCS.	
 DCNR leadership intends to explore ies in early 2021. 	2024-2025: Beginning in the 2023 progress reporting
ers through its C2P2 program with Keystone vironmental Stewardship Fund, and the DCNR also anticipates allocating \$700,000 of support on-demand, shovel-ready buffer uffer projects through the CAP ts and Growing Greener Plus grant program. work with USDA-FSA and PACD in partnership am.	period, number of BMPs identified under "CBF" funding/ source in PracticeKeeper will be reported in

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnersnips			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
									 DCNR has received \$3 million from EPA IIJA MEB funds via the BIL, and will use these funds via the existing C2P2 Grants and/or the new Environmental Restoration ITQ for both riparian forest buffers and lawn conversion projects. 2023 Update: DCNR continues to leverage available internal and external funding 	programmatic progress.
									 for buffers to utilize via C2P2 grants and the Ecological Restoration Invitation to Qualify (ITQ). However, demand for grants and projects continues to outpace available funding. New/Additional/Increased funding sources are needed. 19 implemented BMPs were reported as funded in whole or in part by CBF for urban forest planting, riparian forest buffer, and tree planting, toward Pennsylvania's annual numeric progress. 	
2.2.2F	Expand TreeVitalize and utilize other programs to facilitate community tree planting and maintenance.	50 New Acres of New Urban Trees (300 trees = 1 acre)	Tree Pennsylvania, DCNR, PSU, municipal partners, etc.	Chesapeake Bay	By 2022	Coordination, scheduling, lack of funding.			2020 Update: DCNR named a new TreeVitalize Leader in 2020 and is currently exploring opportunities to both solidify and expand the TreeVitalize program. 2021 Update: DCNR hired a Tree Equity Specialist who will focus on community engagement around tree planting.	
									2022 Update: Treevitalize hired a new Program Manager in January of 2022. TreeVitalize, in partnership with Watershed Forestry, applied for a ATBC NFWF grant, under which they have requested funding for a Bay-focused TreeVitalize employee.	
									A new TreeVitalize team member focused on community outreach to increase implementation projects in the Chesapeake Bay Watershed will be hired in late 2022. 2023 Update: TreeVitalize, now known as PA's Urban and Community Forestry (UCF) Program, has been fully integrated into C2P2 CWF Grants. An influx in federal funding will allow expansion of grants for UCF, and expansion of DCNR's UCF Staff in 2024 and beyond. UCF also intends to leverage and utilize the new Ecological Restoration ITQ to get urban and community forestry implementation projects on	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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							the ground with the newly increased federal funding starting in 2024.
2.2.3F	Create additional, flexible funding options for riparian forest buffers.	Develop new, innovative PA (or Ches. Bay) funding source and mechanism for Buffers, including incentive programs for landowners utilizing buffer co- benefits such as wildlife habitat, income/product potential, flood mitigation, etc. Streamline funding source similar to DCNR's NFWF- Funded Stream ReLeaf program.	All agencies and partners	Chesapeake Bay	Ongoing/A SAP	Innovation, Funding, Coordination, etc.	
							2023 Update: DCNR is in the process of testing the new Ecological Restoration ITQ to implement riparian forest buffer projects. The first projects funding via this mechanism will be installed in the Spring of 2024. While this mechanism is flexible, there is a lack of funding available to continue to utilize it to meet demand for projects.

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							DCNR is investigating the opportunity to partner with the Chesapeake Bay Trust to develop a new funding mechan buffers and other forestry practices.	
2.2.4F	Ensure that riparian forest buffers are adequately maintained to ensure survival by developing a Maintenance	Develop a Riparian Forest Buffer Maintenance funding source to create the capacity for NGOs to develop their own maintenance	All agencies and partners involved in riparian forest buffer implementation	Chesapeake Bay	Ongoing	Lack of interest in funding maintenance from traditional funding sources as it does not result in "new" load reductions.	2020 Update: Most DCNR funding sources provide for establishment at maintenance; but we do not currently have a dedicated maintenance. The Riparian Forest Buffer Advisory Comm be launching an Action Team focused on Maintenance in explore options on how to address this and other RFB m concerns.	source for ittee will 2021 to
	funding source for NGOs to develop their own maintenance	programs for new and already- implemented buffers (up to 5 years after initial					The SCC included maintenance on riparian forest buffers qualifying reimbursable expense through the REAP progr pays farmers back in tax credits for out-of-pocket expens to best management practices that promote on-farm con	am, which ses related
	programs.	planting).					In FY 19-20, the enabling legislation for the REAP Tax Cree Program was amended to provide a 90% tax credit for a priority BMPs in areas with a TMDL with impairments fro agricultural nutrients and sediments (entire PA Bay watershed). Included in this amendment is a 90% tax cree installation and maintenance of forest riparian buffers. O were made to the REAP guidelines for FY20-21 and is not available.	number of om dit for the changes
							2021 Update: Due to the COVID-19 global pandemic and funding issues Maintenance Action Team effort with the RFBAC was pur This will be resumed in late 2021 or early 2022. Available funding sources continue to provide funds for post-plant establishment costs.	t on hold. DCNR
							Partners in Lancaster have developed BEST, or the Buffer Establishment Support Team, which works on and fundra buffer maintenance for any buffers planted within Lanca County.	aises for
							The SCC is working with the Stroud Water Research Cent sample / draft maintenance agreement / contract and fu options for riparian forest buffer maintenance.	
							2022 Update:	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

							Post-planting establishm activity for all buffers pla years under the C2P2 grant ask to DCNR.
							2023 Update: DCNR continues to share utilized to fund mainten 5 years. DCNR's new Ecc to fund maintenance, ho to leverage that new me
							The SCC is encouraging of projects with the \$154 m take a very intentional for coming year and seek fur county farmland preserv
2.2.5F	Continue and Increase Urban Tree Canopy Grants to Communities and non- governmental organization Partners	Utilize and increase funding available through the TreeVitalize annual grant program. Encourage tree planting and/or conservation of existing tree canopy in existing DCNR Grant programs, other agency grant programs as appropriate (grants to community parks, etc.) Connect this work to DCNR's Climate Plan.	DCNR, Tree Pennsylvania, PRPS	Chesapeake Bay	Ongoing	Current Funding does not meet demand. Processes, procedures, and administration.	2020 Update: Please refer to 2.2.2.F. 2021 Update: Grants are now offered to funded with Environment 2022 Update: Grants are continuing to Environmental Stewards actively exploring ways to Buffer Grants under oneThe Clean Streams Fund now under CWF grants, boost and greatly increat applications. These away 2023 Update: DCNR announced C2P2 of Fund allocation of \$3.52 projects in early 2023. G projects by December of

hment on forest buffers is now a fundable planted with any funding source in the past 5 grants. It can be up to 20% of the overall	
are with partners that C2P2 grants can be enance on any buffers planted within the past Ecological Restoration ITQ can also be utilized however, there is a lack of funding available mechanism at this time.	
g counties to incentivize riparian buffer 4 million in ACAP funded grants. The SCC will I focus on riparian buffers on farmland in the funding through RCPP and collaboration with ervation boards.	
ed through the department's C2P2 program, nental Stewardship and Keystone Tree Funds.	
to be offered via the C2P2 grants, funded w/ rdship and Keystone Tree Funds. DCNR is vs to combine TreeVitalize and Riparian Forest ne forestry umbrella within C2P2.	
nd made \$3,520,000 for TreeVitalize grants, is, for C2P2 grant round 28.6. This was a major eased the number of TreeVitalize grant wards will be announced in early 2023.	
2 CWF grants funded with the Clean Streams 52M for urban and community forestry . Grantees are working to implement these of 2025.	

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and <mark>2024-2025 Updates</mark>	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
									 DCNR has applied for and been awarded federal funds totaling over \$10M that will be utilized for urban and community forestry grants to communities in 2024 and in future years. DCNR is also increasing regional staff capacity across PA to help conduct outreach to additional communities and provided assistance for access to various grants and funding available for urban and community forestry work. 	
2.2.6F	Leverage existing funding sources for Stream and Wetland Restoration.	Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conformi ng stream and wetland restoration implementation, management and monitoring.	DEP, NRCS, SCC, NGOs, DCNR, Universities, etc.	Chesapeake Bay	Ongoing	Strict program regulations, lack of knowledge about existing programs and creditable BMPs, etc.			 2020 Update: Utilization of CAP Implementation Grants for stream and wetland restoration projects. Also, please refer to 2.1.4.F 2021 Update: Utilization of CAP Implementation Grants and Growing Greener for stream and wetland restoration projects. In 2021, DEP Growing Greener competitive grants program provided additional preference for flood resiliency and stream and floodplain restoration projects. DCED continues to fund stream restoration and flood protection projects through the Commonwealth Financing Authority (CFA) Act 13 Watershed Restoration and Protection Program (WRPP). DEP provides technical assistance, construction oversight and funding through the <u>Stream</u> Improvement Program and the Flood Protection Program. 2022 Update: DEP is continuing its efforts mentioned in the 2021 update. DEP continues to advocate for multiprogram accounting so that the unrealized co-benefits of stream and wetland restoration projects initiated through mitigation banking and In-Lieu Fee programs can be attributable to other programs such as MS4 and other pollution reduction evaluations. 2023 Update: DEP provides technical assistance and permitting through Division of Wetlands, Encroachments and Training to support legacy 	
2.2.7F	Develop funding opportunities for	Include Conservation Landscaping as an	DCNR, TreePennsylvania,	Chesapeake Bay	By 2021	Time, finding funding sources, etc.			sediment removal projects and complex large watershed scale phased projects that result in comprehensive aquatic resource restoration. Pennsylvania continues to utilize existing funding sources as noted above to incentivize stream restoration. 2020 Update: DCNR allocated \$50,000 for implementation as part of its Lawn Conversion Program launch in 2020. An additional \$75,000 was	

Action	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

turf conversion	eligible BMP in	TreeVitalize, DEP,		ailable for 2021,
programs.	existing conservation grant	etc.		will be available for the Chesapea
	programs. Seek			in Conversion pr
	new innovative			with partners to
	funding sources			on practices via
	and mechanisms.			d DCNR plans to
	Explore funding			ld also make Lav
	opportunities tied			to partners.
	to flood mitigation.			
			2021 Upd	Jate:
				was made availa
				ard for 2021 was
			impleme	ntation. Howeve
			outpaced	the funding ava
			Bay is wo	orking to finalize
			Conversio	on practices in 2
			a \$1M NF	FWF INSR grant,
			supportir	ng Lawn Convers
				ntinues to work
			determin	e how to best in
			DCNR exp	pects partners to
			for grants	s that include La
			2022 Upd	Jate:
				couraged partne
				on projects unde
				s were accepted
				decisions are cu
			in early 2	023.
			Further, I	DCNR will be uti
			and EPA I	MEB to fund law
			PA.	
			DCNR is a	also exploring or
				Forest Buffers g
			wholistic	forestry grants
			As of fall	2022, Lawn Con
				'F Grants, and ap
			be accept	ted annually. Fu

Milestone Adjustments (2024 – 2025)

21, and a portion of DCNR's EPA CBIG award ble for Lawn Conversion practices. The peake Bay received a NFWF SWG grant to practices in 2020 and 2021. DCNR is also to explore options for funding Lawn via the existing C2P2 grant opportunities in to apply for a NFWF INSR grant in early 2021 Lawn Conversion implementation funding

ailable for 2021, and a portion of DCNR's EPA was also utilized for Lawn Conversion practice ever, the demand for implementation has far available. The Alliance for the Chesapeake lize their NFWF SWG grant to fund Lawn n 2021. Further, DCNR was recently awarded nt, of which \$500K will be utilized for work version.

ork with the existing C2P2 grant program to at incorporate Lawn Conversion practices. The sto apply to the C2P2 program in early 2022 a Lawn Conversion implementation.

tners to apply for C2P2 funding for turf nder the C2P2 Partnerships umbrella. Three ted that focused on turf conversion work. currently being made, and will be announced

utilizing funds awarded by both NFWF INSR lawn conversion practices implementation in

g options to include lawn conversion under the s grant category, expanding it to be a more nts mechanism within C2P2.

Conversion is now an integrated part of the applications for lawn conversion projects will Funding will be requested each year from the

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partierships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

								state budget to fund app viable projects.
								2023 Update: DCNR has fully incorpor Grant Program, as well a available funding lags be partnership with the Che mechanism for distribut conversion implementat
2.2.8F	Continue to implement stream restoration, emphasizing legacy sediment removal and floodplain restoration projects (FR-LSR). Identify areas that may have low cost-to- benefit ratios for nutrient load reductions from FR-LSR projects. Pair stream, wetland, and other aquatic resource restoration projects with upland BMPs whenever possible.	Identify areas that would benefit from Legacy Sediment Removal and Ecosystem Restoration throughout priority areas of the watershed	DEP, CDs, Watershed Organizations, Private sector companies or NGOs working on remote sensing tools	Beginning 2020	Capital investment for design/ implementation is of concern.	Restorable wetland mapping and probable wetland mapping are completed and available for public use to target potential sites. Total Wetness Index (TWI) data is now available for use in evaluating potential pollutant flow paths and BMP effectiveness. USGS Scientific Investigation Report (SIR 2020-5031) of monitoring efforts at Big Spring Run that provide verified load reductions and a basis to evaluate benefits for FR-	Additional cross program development of tools for targeting aquatic resource restoration BMP implementation, particularly FR- LSR projects. Additional cross program coordination, expert panel participation and technical expertise. Re-evaluation of the cost- effectiveness for established BMPs based on existing program data. Identify broader historical watershed scale legacy alterations, distributions and effects and integrate cross program data	 2020 Update: Data published to PAS with DEP Water Quality/ Ongoing EPA Wetland focusing on developing a extension, contracts and Scientific research and several watersheds acrofrom Federal, State and research and monitoring for developing cost-effect 2021 Update: DEP recently completed Index (TWI) and Geomorfoundational data for unproject potentials. Both Spatial Data Access (PAS) 2022 Update: DEP continues to promordatasets for use in ident DEP is continuing to high completed to date. PA C the significant environm project in Dover Twp., P. social benefits. The web savings and other non-e landowner and the local



applications based on amount requested for	
porated Lawn Conversion into the C2P2 CWF ell as the Ecological Restoration ITQ. However, behind demand. DCNR is also exploring Chesapeake Bay Trust to create another buting funding, when available, for lawn station work.	
PASDA PA's GIS data clearing house. Discussed ity/TMDL program and consultants. and Program Development Grant project is ng a Watershed Legacy Alteration Index. Grant	2024-2025: Added newly available resources: Geomorphon Level 1`
and revised work plan in place.	mapping for use in
and monitoring of restoration projects in cross PA was accomplished with assistance nd Private funding sources. These scientific ring efforts provide credible results and a basis ffective aquatic resource restoration projects.	restoration targeting and planning available on PASDA.
ed working with PSU to publish Total Wetness norphon Landform mapping that provides understanding landform/waterflow paths and oth datasets are available on Pennsylvania PASDA).	The Restoration Community Predictor Tool is on the Pennsylvania Natural Heritage
mote the availability of the remote-sensing entifying potential restoration sites.	Program (PNHP) website to
highlight several LSR projects that have been A Clean Water Academy training showcases Inmental benefits of the Little Fox Run LSR I, PA, as well as the notable economic and Pebinar touches on some of the long-term cost	assist restoration project designers with selection of
n-environmental benefits realized by the cal community. <u>Click here to access the video</u> .	vegetation communities
	C 2

Action #	Description	Performance Target(s) and	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	12022.0
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
							LSR restoration projects. Cost- effectiveness analysis of FR- LSR project at Big Spring Run compared with alternative BMP's published in 2019 that demonstrates the potential of targeting low cost solutions for watershed hot spots impaired by legacy sediment (Flemming et al, 2019 Legacy sediment erosion hot spots: A cost- effective approach for targeting water quality improvements). Completion of statewide Geomorphon Level 1` mapping for use in restoration targeting and planning available on PASDA.	collection and analysis to develop targets for aquatic resource restoration projects.	 2023 Update: DEP is continuing the efforts listed previously and developing Level 2 Geomorphon valley mapping to assist with identifying valleys that have been modified and higher potential to maximize restoration benefits. Restoration Community Predictor Tool released on the PNHP website to assist restoration project designers with selection of vegetation communities that are similar to a site's constraints. PNHP staff conducted training to a limited audience, additional training is in the planning stages. Over 4,000 breached dams were geo-located from Pennsylvania's Dam Inventory Database that represents over 100 years of program information. Work is on-going to present the data to the public for targeting legacy sediment removal in a user- friendly manner via DEP's website. 	similar to site characteristics.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
							Implementation of the Restoration Community Predictor Tool on the Pennsylvania Natural Heritage Program (PNHP) website to assist restoration project designers with selection of vegetation communities that are similar to a site's constraints.			
	Apply for NFWF funds via America the Beautiful Challenge Grant, next INSR grant round, and potentially Central Appalachian Stewardship Program to seek additional implementation funding for TreeVitalize, Lawn Conversion, and Riparian Forest Buffers	Expand funding available for implementing high- priority Forestry BMPs within the Bay Watershed and beyond.	DCNR	Chesapeake Bay	Grant Application Submitted: July 2022	Competitive funding- cannot guarantee success			 2022 Update: This is a new milestone for 2022-2023. DCNR was informed that their ATBC proposal was not awarded in 2022, but will seek NFWF feedback in 2023 and try again in future years. DCNR did not apply for Central Appalachian Stewardship Program funds in 2022, but plans to do so in 2023. 2023 Update: DCNR's ATBC grant application for Forestry work was not funded. DCNR will consider applying again in future rounds, as appropriate. DCNR did submit a proposal to the Central Appalachian Habitat Stewardship Program to fund buffers. Those grant awards have not yet been announced. DCNR will also consider applying to NFWF's next CBSP INSR Round in 2024. 	
	Evaluate effectiveness of the PA Conservation	Work with federal and local partners to evaluate and streamline the	DEP, USDA-FSA, Conservation Districts	Statewide – Ohio, Chesapeake Bay, Delaware	Beginning 2024	Potential for contractual limitations	DEP continues to invest funds in PA CREP		2023 Update: This is a new milestone for 2024-2025.	2024-2025: This is a new milestone for 2024-2025.

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and 2024-2025 Updates	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
2.2.11F	Reserve Enhancement Program (PA CREP) and identify solutions to boost enrollments / re- enrollments Reclaim abandoned mine lands (AML) and construct abandoned mine drainage (AMD) treatment facilities.	existing PA CREP to help boost enrollments and re- enrollments in the program 2024-2025 Update: Reclaim 600 acres of AML and construct 2-3 new AMD treatment plants.	DEP, Consultants, Conservation Districts, Watershed Organizations	Coal regions	Ongoing	Staffing and grant management	Financial – AML/AMD Grant program	Hire new staff and staff training	2023 Update: Over the life of the program, more than 34,000 acres have been reclaimed and > 200 stream miles restored.	<mark>2024-2025:</mark> This is a new milestone for 2024-2025.
Section 3,	Countywide Actio	ns			1		1			1
3.2.1	Phase 1 (Pilot and Tier 2 counties): Provide 8 – Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 & 4 counties): Provide 10 – Community Clean Water Coordinators (External Full Time position)	External coordinating staff would be assigned to individual Tier 1 & 2 counties in phase 1, and to regionalized Tier 3 & 4 counties in phase 2. External Coordinators would be DEP contractors reporting to the DEP Internal Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to develop and implement	DEP External Contractor County Planning Offices County Conservation Districts Other County Partners	Chesapeake Bay	Phase 1: Begins in January 2020, ongoing through 2025 Phase 2: Begins in August 2020, ongoing through 2025	State staffing support Internal and External Coordination Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner in order to begin Phase 1. This pushed the schedule back for both Phase 1 and Phase 2.		Total: 21 – Community Clean Water Coordinators \$2,100,000 per coordinator) Phase 1: 8 – Community Clean Water Coordinators \$800,000 Phase 2: 13 – Community Clean Water Coordinators \$1,300,000	 2020 Update: Phase 1 implementation is in progress. 8 – Community Clean Water Action Plan Coordinators were hired in Tier 1 & 2 Counties. PA state Environmental Steward Funds were used to fund these positions. Phase 2 planning is in progress. 10 – Community Clean Water Action Plan Coordinator positions are provided, and the application is open. Environmental Stewardship Funds will also be used to fund these positions. No federal funding received for these positions. 2021 Update: Provided funding to sustain: 8 – Community Clean Water Action Plan Coordinators in Pilot & Tier 2 Counties. 10 – Community Clean Water Action Plan Coordinator positions hired in Tier 3&4 counties. 2022 Update: Provided funding to sustain: 8 – Community Clean Water Action Plan Coordinator positions hired in Tier 3&4 counties. 10 – Community Clean Water Action Plan Coordinators in Pilot & Tier 2 Counties. 10 – Community Clean Water Action Plan Coordinators in Pilot & Tier 3 – Community Clean Water Action Plan Coordinators in Pilot & Tier 4 – Community Clean Water Action Plan Coordinators in Pilot & Tier 5 – Community Clean Water Action Plan Coordinators in Pilot & Tier 7 – Community Clean Water Action Plan Coordinators in Pilot & Tier 7 – Community Clean Water Action Plan Coordinators in Pilot & Tier 7 – Community Clean Water Action Plan Coordinators in Pilot & Tier 7 – Community Clean Water Action Plan Coordinators in Pilot & Tier 	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	(2023 Pro
						2	Fillancial	Financial	
		countywide action plans. DEP will continue to fund and continue to seek federal funding for: 8 – Community Clean Water Action Plan Coordinators in Pilot & Tier 2 Counties. 10 – Community Clean Water Action Plan Coordinator positions hired in Tier 3&4 counties.							2023 Update: Provided funding to sus 8 – Community Clean W 2 Counties. 10 – Community Clean W hired in Tier 3&4 counti
	Phase 1: Provide 3 – Community Clean Water Coordinator (Full Time Internal Coordinator Position) Phase 2: Provide 7 – Community Clean Water Coordinator (Full Time Internal Coordinator Position)	Internal Coordinators: Would be DEP employees. Internal Coordinators would serve as the point of contact and provide WIP coordination for DEP and all other state agencies for external coordinator and technical coordinators. 2024-2025 Update: The previous milestone commitments denoted 10 internal	DEP		Phase 1: Begins in January 2020 Phase 2: Begins in August 2020	State staffing support Internal and External Coordination Phase 1 – internal coordinators were on-boarded beginning January 2020		Total: 10 – Community Clean Water Coordinator \$1,000,000 (\$100,000 per coordinator) Phase 1: 3 – Community Clean Water Coordinator \$300,000 Phase 2: 7 – Community Clean Water Coordinator \$700,000	2020 Update: DEP Chesapeake Bay Of makes a total of three In efforts. The three interr coordination of all state counties. 2021 Update: Chesapeake Bay Office I 2021, with the turnover continue at same levels developed Region CAP S expand their job duties District Field Representa within the Chesapeake Four (4) CDFR positions three (3) will be located Interviews commenced 2022 Update: A total of three DEP Inte efforts. The three interr coordination of all state counties.

sustain: Water Action Plan Coordinators in Pilot & Tier

n Water Action Plan Coordinator positions nties.

Office hired one internal Coordinator. This e Internal coordinators to support Phase 3 WIP ernal coordinators are currently supporting the ate agencies, WIP action leaders and 34 active

ce hired one Internal Coordinator in December ver of one earlier in 2021. Staffing challenges els as 2020 update above. For this reason, DEP P Support Teams, to utilize existing staff and es and responsibilities. Two (2) Conservation ntatives (CDFR) assist with county support ke Bay watershed.

ns were posted in November 2021, of which red in the Northeast and Southcentral regions. ed in early 2022.

nternal coordinators support Phase 3 WIP ernal coordinators are currently supporting the ate agencies, WIP action leaders and 34 active

<mark>2024-2025:</mark>

Personnel reorganization allowed for greater internal efficiencies. Even with efficiencies, additional staff are needed to ensure consistent field presence and support.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
						ba		99	

3.2.3	Phase 1: Provide 2 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator) Phase 2: Provide 8 – Clean Water Technical Assistance	Technical Coordinator: A DEP contractor reporting to the DEP Internal Coordinator. The Technical Coordinator would be responsible for: for providing information and facilitation of planning tools	Technical Contractor	Phase 1: Begins in July 2019 Phase 2: Begins in August 2020	State staffing support Internal and External Coordination Technical coordinators will have varied workloads.	Total: 10 – Clean Water Technical Assistance Coordinators \$900,000 (\$90,000 per coordinator)	2020 Update: DEP Chesapeake Bay Off Coordinator. Additionall Susquehanna River Basin technical support to Pha Phase 1 counties for CAR support. Phase 2 suppor development and technic 2021 Update: One internal Technical C Susquehanna River Basin additional technical supp provided to Phase 1 cou
		coordinator positions. With the 2020 and 2022 Reorganizations of the Bureau, the program now has 1 supervisor, 3 internal coordinators, and 3 regionally based watershed managers to directly support the internal coordination of Countywide Action Plan implementation. Up to 4 regionally based Conservation District Field Representatives provide additional support.					The Chesapeake Bay Off Restoration and Nonpoi Chesapeake Bay Restora sections dedicated to Ba Administration and Chese enhancements to the Bu Watershed Managers st the southcentral, northo will provide additional st Chesapeake Bay watersh Manager positions (nort Watershed Accountabili Manager interviews for conducted in December 2023 Update: A total of three DEP Inter efforts. The three intern coordination of all state counties. With the 2022 expansion Bureau of Watershed Re Management, the Chesa the work outlined in 202 Technician position, fun- handle administrative du funding.



Office expanded into the Bureau of Watershed oint Source Management in fall 2022. A pration Division was created that includes two Bay work: Watershed Accountability and esapeake Bay Partnership. Staff Bureau include centralizing region-based statewide. Watershed Managers that serve hcentral, and northeast portion of the state I support through their normal job duties for rshed restoration efforts. Two Watershed orthcentral and southcentral) report to the bility and Administration Section. Watershed or southcentral and northeast regions were er 2022. iternal coordinators support Phase 3 WIP rnal coordinators are currently supporting the te agencies, WIP action leaders and 34 active

ion of the Chesapeake Bay Office into the Restoration and Nonpoint Source esapeake Bay Restoration Division continued 022 (above) and also added a Management unded in part by Chesapeake Bay IIJA, to duties associated with tracking and reporting

Office hired one internal Technical ally, DEP maintains a contract with the asin Commission (SRBC) to provide additional hase 3 WIP efforts. Support was provided to CAP development and implementation port was provided with CAP technical toolbox nnical assistance at stakeholder meetings.

I Coordinator and the DEP-contracted isin Commission (SRBC) continue to provide upport to Phase 3 WIP efforts. Support was ounties for CAP implementation support and ates to Pilot counties' CAP milestones. Phase

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
	Coordinators (Full Time Technical Coordinator	through the planning and implementation process, assist with reporting and tracking of milestones annual progress, assist in model runs for plan development and during annual milestone updates.				Phase 1: preparation for Phase 1, to include development of tools (guides, toolboxes, web- based reporting systems, training) was on schedule.			 2 support was provided with CAP technical toolbox develoand technical assistance at stakeholder meetings. 2022 Update: The Chesapeake Bay Partnership Section was created unnew Bureau and a Section Chief and two employees will technical coordination and the DEP-contracted Susquent Basin Commission (SRBC) continued to provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of Tier 2 counties' CAP milestones. 2023 Update: The Chesapeake Bay Partnership Section Chief and three Program Specialist staff members continued to provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation, and the DEP-contracted Susquent Basin Commission (SRBC) continued to provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of Tier 2 counties' CAP milestones. Support was provided to for CAP implementation support and numeric progress of the contract of the provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of the contract of the provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of the contract of the provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of the contract of the provide additional support to Phase 3 WIP efforts. Support was provided to for CAP implementation support and numeric progress of the contract of the provide additional support to Phase 3 WIP efforts and on a mussel resistance in Conowingo WIP efforts and on a mussel resistence in the provide additional support to Phase 3 will be provided to provide the provide additional support of the provide tech assistance in Conowingo WIP efforts and on a mu
3.2.4	Phase 1: Provide 1 – Clean Water Facilitation Coordinator (Full Time Facilitation Coordinator Position)	Facilitation Coordinator: A DEP contractor reporting to the DEP Internal Coordinator.	Facilitation Coordinator DEP		April 2019	State staffing support Internal and External Coordination		1 – Clean Water Facilitation Coordinator \$100,000	 2020 Update: DEP maintains a contract with Consulting With a Purpose facilitation and planning support for Phase 3 WIP efforts. With a Purpose continues to provide facilitation for interexternal coordination and county support. 2021 Update: DEP maintains a contract with Consulting With a Purpose facilitation and planning support for Phase 3 WIP efforts. With a Purpose continues to provide facilitation for interexternal coordination and county support. 2022 Update: DEP maintains a contract with Consulting With a Purpose facilitation for interexternal coordination and county support. 2022 Update: DEP maintains a contract with Consulting With a Purpose facilitation and planning support for Phase 3 WIP efforts. With a Purpose continues to provide facilitation for interexternal coordination and county support. 2023 Update: DEP's Chesapeake Bay Watershed Restoration Division r a contract with Consulting With a Purpose to provide facilitation for interexternal coordination and county support.



ed with CAP technical toolbox development ace at stakeholder meetings.	
Partnership Section was created under the ction Chief and two employees will provide n and the DEP-contracted Susquehanna River (BC) continued to provide additional technical IP efforts. Support was provided to counties on support and numeric progress updates to nilestones.	
Partnership Section Chief and three Water aff members continued to provide internal n, and the DEP-contracted Susquehanna River (BC) continued to provide additional technical IP efforts. Support was provided to counties on support and numeric progress updates to nilestones. SRBC also provided technical ngo WIP efforts and on a mussel restoration	
ract with Consulting With a Purpose to provide ing support for Phase 3 WIP efforts. Consulting nues to provide facilitation for internal and and county support.	
ract with Consulting With a Purpose to provide ing support for Phase 3 WIP efforts. Consulting nues to provide facilitation for internal and and county support.	
ract with Consulting With a Purpose to provide ing support for Phase 3 WIP efforts. Consulting nues to provide facilitation for internal and and county support.	
y Watershed Restoration Division maintained	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025
									and planning support for Phase 3 WIP and CAP efforts. Consulting With a Purpose continued to provide facilitation for internal and external coordination and county support.	
3.2.5	Phase 1: Provide 1 – Clean Water Outreach Coordinator (Full Time Outreach Contractor)	Outreach Coordinator: A DEP contractor reporting to the DEP Chesapeake Bay Office, in coordination with WIP Communication and Engagement Workgroup and DEP Communication Office.	Outreach Coordinator DEP		April 2019	State staffing support Internal and External Coordination		1 – Clean Water Outreach Coordinator \$100,000	 2020 Update: DEP maintains a contract with Water Words That Work to provide outreach and communication coordination support for the Phase 3 WIP. Water Words That Work continues to provide support for communication tools and support for both internal and external needs. 2021 Update: DEP maintains a contract with Water Words That Work to provide outreach and communication coordination support for the Phase 3 WIP and CAP efforts. Water Words That Work continues to provide support for communication tools and support for both internal and external needs. 2022 Update: DEP maintains a contract with Water Words That Work to provide outreach and communication coordination support for both internal and external needs. 2022 Update: DEP maintains a contract with Water Words That Work to provide outreach and communication coordination support for the Phase 3 WIP and CAP efforts. Water Words That Work continues to provide outreach and communication coordination support for the Phase 3 WIP and CAP efforts. Water Words That Work continues to provide support for communication tools and support for both internal and external needs. 2023 Update: DEP's Chesapeake Bay Watershed Restoration Division maintained its contract with Water Words That Work (WWTW) in the first half of 2022, then switched contractors to Green Words Consulting (GWC) when WWTW closed. GWC is owned by the same person who was the WWTW project manager, so there was no disruption to work and the transition was seamless, beginning in second half of 2023. GWC continued to provide outreach and communication and coordination support for the Phase 3 WIP and CAP efforts, including developing communication tools and support for both internal and external needs. 	

2.3.	.1	Impleme	nt	а	A Request for	DEP, Pennvest	Lancaster and	RFP done		2020 Update:
		pilot d	of t	he	Proposals will be		York	April 2020		

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
	counties of	released and awardee put in place. Assistance will be provided to landowners and municipalities to complete projects. Assistance includes outreach and resources (both technical and financial) to municipalities and farmers to implement BMPs.			Pilot done Summer 2021				The vendor for the Center for Water Quality Excellence has been selected and is Keystone Safety Services, Inc. d/b/a Land Logics Group. Contracts have been finalized and a Notice to Proceed was issued on November 12, 2020. Next step is to get the virtual center component up and running which is anticipated by May 2021. Also, between now and May 2021 and beyond the vendor will be doing outreach at events, assuming those events happen and appropriate COVID-19 safety protocols can be maintained. The physical center should be opening June/July 2021. The Pilot will focus on Lancaster and York Counties initially. 2021 Update: The <u>Center for Water Quality Excellence</u> funded by PENNVEST is up and running both virtually and with a storefront. 2021-2022 effort is focused on outreach. 2022 Update The Center for Water Quality Excellence has been providing outreach at events, thorough its portal, and one on one with landowners, farms, and municipalities relating to the funding opportunities available to address water quality and MS4 stormwater related issues. 2023 Update: The Center for Water Quality Excellence continued to provide outreach at events, through its portal, and one on one with landowners, farms, and municipalities relating to the funding opportunities available to address water quality and MS4 stormwater related issues.	
9.3.1C	Climate Change Complete the Penn State Study, Climate Change Impacts on Pennsylvania's Watershed Management Strategies and Water Quality Goals	Study will answer some key questions that will be used to more effectively select and target practices that will address climate resiliency goals.	DEP, Penn State	Statewide	July 2020				 2020 Update: Completed as part of Climate Impacts Assessment, press release issued April 2020. Posted on DEP Climate Change Impacts page: <u>https://www.dep.pa.gov/citizens/climate/Pages/impacts.aspx</u> 2021 and 2022 Updates: Completed in 2020. No further update. 	2024-2025: Milestone was completed in 2020.
9.3.2C	Pennsylvania Climate Academy	Reduce an additional 1.81	DEP, GreenGov Council	Statewide	Ongoing				2022 Update:	



Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	<mark>(2023 Pro</mark>
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million pounds of nitrogen and 0.095				106 DEP personnel took received their CC-P crede
million pounds of				Pennsylvania Climate Lea
phosphorus				second half of 2021. Thi
delivered to the				DA Climata Landarshin A
Chesapeake Bay				PA Climate Leadership A
due to climate				Change Mitigation & Res
change by 2025.				issued for contractor to
				12/6. MOU w/8 sibling s
This project				which will facilitate parti
supports the Green				multiple agencies, not ju
Gov Council				
through technical				2023 Update:
assistance to				The PA Climate Network
achieve the goals				hired a contractor to ass
set forth in the				Modules on climate char
2019-1 Executive				now completed and post
Order,				through the Department
Commonwealth				committee is currently d
Leadership in				entities interested in tak
Addressing Climate				Climate Network going f
Change and				in December 2024.
Promoting Energy				
Conservation and				
Sustainable				
Governance. DEP				
over the past fiscal				
year developed an				
accredited Climate				
Training Course for				
DEP participants				
which can now be				
delivered to a wider				
audience as a				
Climate Academy.				
This Academy when				
paired with the				
public facing				
-				
mission of the PA				
Green Gov Council				
can be used to				
educate local				
governments and				
the public on				



ok CC-P training, and 16 of those people edential in Fiscal Year 2020/2021. The Leadership Academy was established in the This is a new milestone for 2022-2023.

D Academy has been renamed PA Climate Resilience Network ("the Network"). RFQ to manage/lead the Network; bids are due by og state agencies to share contractor costs, articipation and ownership of the Network by t just DEP.

ork Executive Committee and Advisory Board assist with the development of Training hange and climate related issues which are osted on the PA GreenGov Council website ent of General Services. The executive y developing a request for interest (RFI) to taking ownership and operation of the PA g forward. The RFI is expected to be released

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and	Resources <u>Needed</u> Technical and	(2023 Pr
							Financial	Financial	2
		Climate and the benefits of sustainable governance.							
Section 2	, State Actions, Nu	umeric Commitments	S	1		<u> </u>	I		
2.3.1A	Initiate Implementation of Pennsylvania's Agriculture Conservation Stewardship Program (ACSP)	Finalize draft program guidance, application, and on- farm assessment tools; 3 rd party verification process, pilot program; and release program for initial implementation	Certified Third Parties, CDs, DEP, SCC, PDA	Chesapeake Bay	July 2020 Ongoing				 2020 Update: Development of the PA COVID challenges and s A pilot conducted in Fa investigate additional m participation by farmer 2021 Update: PDA/SCC renegotiated agreement to provide m implementation of PAC 2022 Update: The Agrid (ACAP) was approved b Set up and begin ACAP 2023 Update: Discussions on moving including how to incent were held with stakeho
2.3.2A	Work with third- parties,	Assess/increase implementation of	Certified Third Parties, Integrators	Chesapeake Bay – Animal	December 2025				Program in MD, Chesar Sustainable Agriculture 2020 Update: Ongoing efforts to func
	integrators, and co-ops to identify alternative methods to support and assess compliance with regulations without use of	agricultural plans and BMPs using programs such as those developed by Turkey Hill, Alliance for Chesapeake Bay, and MD/VA Cooperative	and Cooperatives, DEP	Producers					Producer Survey. Continue Turkey Hill/ P practices credited. Funding and support of <u>https://extension.psu.e</u> <u>management/planning</u> 2021 Update:
	without use of regulatory entities								2021 Update: Penn State, PDA, SCO (LOU) and serve on a

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
A ACSP is on hold until early 2021 due to staffing challenges.	
all/Winter 2019 indicated a need to methods and alternatives to incentivize ers and third-party verifiers.	
d a contract with EPA for an NPG grant resources for the development and ACS	
ricultural Conservation Assistance Program by the PA House and Senate.	
P program.	
g forward with PACS continued in 2023, ntivize the PACS program. Regular meetings nolder groups including Chesapeake Bay apeake Bay Foundation, and PA Association for re (PASA).	
nd Penn State College of Agriculture's 2020	
PennAG Industries efforts to get certain	
of PAOneStop: <u>.edu/programs/nutrient-</u> g-resources/paonestop	
and DEP hold a joint Letter of Understanding Executive Committee and Management	

Acti	on # Descrip	Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

					Committee to oversee the to <u>PAOneStop</u> SCC and DI PAOneStop program. Disc PAOneStop could serve as compliance, mapping bala nutrient setbacks, etc. Ac has been developed for PA Producer Survey data colle Continue to work with the Foods, and Maryland and support local dairy farms to Continue to work with the Chesapeake Bay on <i>Sustai</i> sustainable and climate fr Hershey Milk Chocolate CC Continue Turkey Hill Clear farms to use a conservation 2022 Update Penn State, PDA, SCC, and (LOU) and serve on an Exe Committee to oversee the to <u>PAOneStop</u> . SCC and DI PAOneStop program. Enh agency funding include th through the PAOneStop to Management Plans, to en Continue to work with the Foods, and Maryland and support local dairy farms to Continue to work with the Foods, and Maryland and support local dairy farms to Continue to work with the Foods, and Maryland and support local dairy farms to Continue to work with the Chesapeake Bay on <i>Sustai</i> sustainable and climate fr Hershey Milk Chocolate CC
					Continue Turkey Hill Clear farms to use a conservation



e the development and enhancements made d DEP continue funding and support for the Discussions are taking place to see if re as an alternative method to support balance sheet development, manure and Additionally, an online survey mechanism or PAOneStop to be initially used in the 2022 collection.

n the Alliance for the Chesapeake Bay, Giant and Virginia Milk Cooperative Association to rms to improve their land and water.

n the Hershey Company and Alliance for the *ustainable Dairy Pa*, to support more te friendly dairy supply chain in Pa for the te Company.

Clean Water Partnership to incentivize dairy vation plan and BMPs on their farms.

and DEP hold a joint Letter of Understanding Executive Committee and Management the development and enhancements made d DEP continue funding and support for the Enhancements supported through state the implementation of a standard template op tool for Ag E&S Plan and Manure censure administrative completeness.

the Alliance for the Chesapeake Bay, Giant and Virginia Milk Cooperative Association to ms to improve their land and water.

the Hershey Company and Alliance for the *Istainable Dairy Pa*, to support more te friendly dairy supply chain in Pa for the te Company.

Clean Water Partnership to incentivize dairy vation plan and BMPs on their farms.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
2.3.3A	Implementation	Adequate manure	NRCS, CDs, Private	Chesapeake	December	Need to increase			 2023 Update: PDA, SCC, and DEP had meetings with officials from EPA, Hershey Foods, and Alliance for Chesapeake Bay regarding funding for new public-private partnership. SCC had discussions with Lancaster Clean Water Partners on whether ACAP could be administered by third parties to streamline processes around bidding and contracts. In addition, SCC is making its recent Most Effective Basin (MEB) award available for public-private partnerships. 2020 Update: 	2024-2025:
	of Animal Waste Management Systems (AWMS)	storage for 90% of swine/poultry operations; 75% of all other animal types	Consultants, Swine and Poultry Integrators	Bay – Animal Producers	2025	amount of licensed P.E's and those with job approval authority in order to meet PA regulatory requirements for liquid storages. Need to increase number of qualified engineers for solid storages.			Continue to meet with NRCS and other ag partners during the Quarterly Technical Committee meetings. Continued funds via CBIG for Chesapeake Bay Engineering Specialists and Engineer Assistants, as well as state funds for joint funding with NRCS for PA Association of Conservation Districts Engineer Specialists in the four pilot counties. NRCS continues to provide training and Job Approval Authority for Conservation District ag technician staff. Penn State University has initiated a conservation training curriculum to prepare graduating students for a career in ag conservation. CEG and CAP Implementation Grants, for instance, are available for pilot and Tier 2 counties to allocate for AWMS implementation. However, further funds are needed to meet the needs for technical assistance and engineering design of liquid and semi-solid storages. 2021 Update: CEG and REAP programs are available for Tier 1 and Tier 2 counties to allocate for AWMS implementation. However, further funds are needed to meet the needs for technical assistance and engineering design of liquid and semi-solid storages. DEP, SCC, NRCS, and PACD continue to work together to provide funding for engineering and technical support staff via Chesapeake Bay Technicians, Chesapeake Bay Engineer Assistants and Specialists, Chesapeake Bay Watershed Conservation Initiative (CBWCI), and Technical Assistance Grant (TAG). Conversations are ongoing regarding effective and efficient deployment of services from these funding programs and staff.	Beginning in the 2023 progress reporting period, number of AWMS BMPs reported through PracticeKeepe will be reported in programmatic progress.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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2.3.5A	Focus agricultural technical		DEP, SCC, PDA	Chesapeake Вау	Ungoing		2020 Οράατε:
2.3.4A 2.3.5A	-	Finalize Soil Erosion and Sedimentation Control Manual for Agricultural Operations technical guidance (383-4200-002) and train conservation districts and consultants. 2022-2023 Update: Implement web- based and in- person training for Manure Management Planning and Agriculture Erosion and Sediment Control Planning; Revise the Manure Management Manual Technical Guidance Document by 2023	DEP, Penn State Extension, SCC, NRCS	Statewide	September 2020	TGD finalized and released October 2019. Training in development.	SCC and NRCS. The cecapacity in the short a ACAP will be crucial to 469 implemented Was Structure RI were verif annual numeric progres 2020 Update: Four web-based traini developed by DEP staf DEP's Clean Water Aca Entered into agreemer additional in-person or between PAOneStop a 2021 Update: Penn State is in develop PAOneStop Ag E&S Plat Ag E&S Plan and Manu provided via DEP's Clean 2022 Update: Work with Penn State implementation of Ag Manual Technical Guid with draft slated for put The draft revision to the Guidance Document w The final version will b 2020 Update:
							SCC in planning phase to build capacity relate Program and the pote 2023 Update: The new Center for Ag and up and running at



of developing a Technical Assistance Center ed to the new Ag Conservation Assistance ential doubling up of funds under EQIP/CSP.	
g Conservation Technical Assistance is staffed t Penn State University, in partnership with enter was created to help address need for and longer term. Seeking a dedicated fund for b keeping the center going beyond 2026.	
ste Storage facilities and Dry Waste Storage fied and reported toward Pennsylvania's ess.	
ing modules for the Ag E&S Manual were ff and opened for public consumption on ademy.	
nt with Penn State Extension to create urriculum as well as to ensure consistency and the Ag E&S Manual.	
opment of curriculum as well as finalizing the an reporting template and instructions.	
ure Management Plan modules continue to be ean Water Academy.	
continues for the development and E&S Plan curriculum. Manure Management dance Document is currently under revision, ublication in 2023.	
he Manure Management Manual Technical was published for public comment in 2023. De published in mid-2024.	

Action #	Description	Performance Target(s)	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		and <mark>2024-2025 Updates</mark>	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

assistance and financial resources in		Beginning July 2020		Both CEG and the new D being rolled out based on status. See the CEG disc
areas of highest need and impact to the Chesapeake Bay, to include targeted watershed approach				2021 Update: The SCC continues to tar Approximately \$10 millio CEG and REAP. Addition funds full time staff (FTE Chesapeake Bay watersh the FTE funding.
				Governor Wolf announce and partners' "30 by 30" segments for agricultura are 39 stream segments approach in Lancaster, U Huntingdon, and Centre Chesapeake Conservancy endeavor through target as through EPA State Cap Lancaster County.
				2022 Update: DEP 2022 Growing Green Watershed Initiative, whi practices to small stream impairment and that iden restoration. Project appl practices within one or m Phase being capped at \$7 education and outreach, and inventorying, and de was to set the projects u following year of Growin as NRCS, PENNVEST, SCC
				2023 Update: ACAP funds are distribut considers number of anin impaired stream miles. I Tier 1 and 2 counties. La higher incentives for loca

Progress to Date (2020 – 2021 - 2022) And rogress Updates HIGHLIGHTED) Milestone Adjustments (2024 – 2025)

/ DEP phase 2 inspection funding (for BMPs) is on the Phase 3 WIP Tiered Counties priority iscussion at 2.2.1.

target resources at Tier 1 and 2 counties. illion for agricultural BMPs is funded through onally, the Nutrient Management Program TEs) at conservation districts, with rshed conservation districts making up 85% of

nced support of the Chesapeake Conservancy 30" initiative, with a goal to delist 30 stream aral impairments by 2030. Currently, there its identified for this "rapid delisting" r, Union, Clinton, Snyder, Lycoming, are Counties. DEP continues to work with the ncy and county partners to support this geted financial and technical assistance, such Capacity Grant for targeted watersheds in

eener Plus grant included the Renaissance which will further support targeting of am segments listed for agricultural dentified to have confidence for successful pplications were submitted by aggregating or more stream segments, with the initial t \$750k per project, and would include ch, farm assessments and planning, surveying design. The purpose of this phased approach s up for success, whether it is through a ving Greener or another funding source, such GCC, etc.

buted to counties based on a formula that animal operations and number of farms and s. In addition, CEG program is available for Lastly, REAP tax credit program provides ocation of farms in Tier 1 and 2 counties.

Action #	Description	Performance Target(s) and	Responsible Geographic Party(jes) and Location Partnerships	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates			Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
1					Primor Allower Policides Churcher Hand	Financial	Financial	

							DEP continued to support targeted watershed approaches through the Growing Greener Watershed Renaissance Initiative, Rapid Stream Delisting Approach, Section 319 Watershed Based Planning, etc. Funds continued to be allocated in the CAP Implementation grant program based on Tier level and local impairments.
2.3.6A	Coordinate existing technical assistance for more effective and efficient deployment of services	Work with federal, state, local agencies as well as private and nonprofit entities to identify and communicate the available services and locations of those services, as well as gaps in service areas and how to effectively fill them	DEP, SCC, NRCS, PACD, Private Consultants, Nonprofits	Chesapeake Bay	2023	Swift and effective deployment of services requires additional staff at the federal, state, and local level as well as additional private industry capacity	 2022 Update: Discussions began in late 2021 based on CAP needs identified in multiple counties throughout the Chesapeake Bay Watershed. This is a new milestone for 2022-2023. SCC in planning phase of developing a Technical Assistance Center to build capacity related to the new Ag Conservation Assistance Program and the potential doubling up of funds under EQIP/CSP. DEP continues to fund Chesapeake Bay Technicians, Engineer Specialists, and Engineer Assistants. DEP continues to provide funding, along with NRCS, toward the PACD Technical Assistance Grant (TAG) program statewide. DEP also provides funding, along with NRCS, to the Chesapeake Bay Watershed Conservation Initiative (CBWCI) Program in the four pilot counties.
							2023 Update: As noted above, the new technical assistance center, which is funded through ACAP administrative funds, is up and running. DEP, SCC, NRCS, and PACD continue to meet on at least a quarterly basis to discuss technical assistance programs.
2.3.1F	Increase technical assistance available to landowners interested in implementing riparian forest buffers.	Create both new Commonwealth staff positions and new positions at partner organizations, and increase entrepreneurial opportunities for forest buffer work.	DCNR, PDA, DEP, SCC, DCED, etc.	Chesapeake Bay	Ongoing	Funding, overhead, space, capacity, available candidates, on- boarding process, hiring process, etc.	2020 Update:DCNR is currently in the process of filling a new Commonwealth position that would focus partly on riparian forest buffers, and continued to make C2P2 grants available to help partner organizations fund positions for buffer outreach and implementation work with landowners.Further, various implementation funding for buffers made available by DCNR can be utilized in some fashion to provide money to buffer contractors/entrepreneurs to implement buffers.
							DCNR and the Alliance for the Chesapeake Bay continue to work with individuals with barriers to employment to encourage new buffer planting and maintenance entrepreneurs through the Correctional Conservation Collaborative program. 2021 Update:

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	<mark>(2023 Pro</mark>

2.3.2F	Increase Urban Forestry Technical	Fund positions within the Commonwealth	DCNR, TreePennsylvania, Penn State	Chesapeake Bay	Ongoing	Funding, overhead, space, capacity, available	2020 Update: Nothing new to report.
							As of fall 2022, all seven working on outreach, pl 2023 Update: DCNR's new Regional W fully onboarded and are increased technical assis DCNR plans to continue this team. Due to expan greatly outpaces funding
							2022 Update: DCNR has created five m Positions, which will ser across PA, with a focus of positions exist, bringing support in PA up to seve positions to help create
							The trainings for individ encourage new buffer p partnership with the All due to the COVID pande guests, DCNR and the A Although no Corrections were held in 2021, DCN Trust-funded GIT grant manual as well as maps and partners by the pro Landscaping Council.
							DCNR was also awarded additional new position USFS that will support th year. DCNR hopes to fill agreement with WPC in been finalized.
							DCNR was able to fill on Forestry (buffers and law

Progress to Date (2020 - 2021 - 2022) And rogress Updates HIGHLIGHTED)

Milestone Adjustments (2024 - 2025)

one additional position focused on Watershed lawn conversion) in early 2021.

ed a NFWF INSR grant that supports an on for two years, as well as a grant from the the hiring of three more individuals for one ill these four new positions via their in early 2022, once the grant contracts have

iduals with barriers to employment to planting and maintenance entrepreneurs, in Alliance for the Chesapeake Bay, were halted demic. When prisons are able to reopen to Alliance hope to reinvigorate this program. nal Conservation Collaborative programs NR did wrap up work on a Chesapeake Bay for the program in 2021, and a training os of opportunities was developed for DCNR roject contractor, Chesapeake Conservation

new Regional Watershed Forestry Specialist erve as added technical assistance capacity on the Bay Watershed. Two current RWFS ng the total of regional positions providing TA ven. DCNR plans to utilize these new te additional capacity within each region.

en RWFS positions have been filled, and are planning, and planting projects.

Watershed Forestry Specialists have been re active in their regions. This has greatly sistance capacity in PA across the watershed. ie to seek funds to maintain and/or expand anded TA capacity, demand for projects ing availability.

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

Assistance Available to Communities and Citizens.	system and with partner organizations.	Extension, PHS, etc.		candidates, on- boarding process, hiring process, etc.	2021 Update: DCNR hired a Tree Equity Specialist to focus on community outreach and engagement.2022 Update: DCNR created a new Chesapeake Bay Watershed-focused TreeVitalize position, and the new hire started in late 2022.2023 Update: DCNR hired a Regional Urban and Community Forestry (UCF) position focused on the Bay Watershed in late 2022. This position has already increased technical assistance capacity for UCF work in the Watershed. DCNR intends to utilize increased federal funding to develop additional capacity for Urban and Community Forestry in 2024.
2.3.3F Create a turf- conversion technical assistance program.	Identify existing subject matter experts in native grassland and meadow establishment to evaluate and design a new program, technical guidance/specificati ons, etc. then create new Commonwealth positions to provide technical support to landowners. 2022-2023 Update: Implement turf- conversion technical assistance program.		By 2022	Creating a new program- start-up costs, time, approvals, budgets, etc. Implementation requires additional funds to sustain program.	2020 Update:See above on launch of new Lawn Conversion Program. The Lawn Conversion Advisory Committee is working on technical guidance documents and trainings for landowners and contractors, as well as local government and NGO partners.2021 Update: DCNR intends to fully incorporate Lawn Conversion into its watershed forestry program. All new hires for positions that will be developed out of recently received grants will be trained in both Lawn Conversion and Riparian Forest Buffer technical assistance.There is still a strong need for additional technical assistance for Lawn Conversion to help meet intense demand from landowners.2022 Update: The five new RWFS positions created by DCNR will not only provide RFB TA, but turf-conversion TA as well. See 2.3.1FDCNR has now integrated Lawn Conversion fully into its Watershed Forestry Program and provides TA and funding to landowners across the Commonwealth.2023 Update: DCNR's new RWFS positions are providing technical assistance to landowners across the watershed in PA. Demand for projects outpaces funding availability. DCNR intends to develop more DIY



Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

									resources for landowners to access TA without the need for financial resources.
2.3.4F	Provide informed technical assistance for stream and wetland restoration projects to ensure they are completed in an adequate, reportable manner.	Ensure that county and agency field staff are trained to support potential creditable wetland restoration opportunities. Integrate trainings into existing, well- attended courses.	NRCS, CCDs, SCC, PDA, DEP, DCNR, TNC, and other NGOs.	PA Bay-wide	Ongoing	Training, staff capacity, etc. Inconsistent use of terminology and definitions (federal, state and FGDC) continues to contribute to challenges associated with communicating	Clean Water Academy technical assistance contract in place to develop training courses for the Clean Water Academy to assist CCD and DEP staff in permit application reviews. Technical presentation and webcast 2019 - https://chesape akestormwater. net/events/big_ spring_run_rese arch/ Reviews of legacy sediment removal floodplain restoration (FR- LSR) projects that are subject to state and federal regulations including Chapter 102, Chapter 105/106 and Section 401	Additional cross program guidance development is needed to transfer knowledge of acceptable restoration practices for the purposes of credit reporting. Existing monitoring and assessment programs for streams and other aquatic resources must identify and report additional impairments, including legacy sediments and other legacy alterations.	 2020 Update: General Permit processing training sessions completed. Additional training sessions under development for late 2020 and 2021 targeting compensation determinations and environmental assessment restoration plan approvals. DEP staff participated in Chesapeake Bay Program's 2020 efforts to improve stream and wetland restoration definitions and crediting for Legacy Sediment Removal projects. 2021 Update: Engaging in a STAC BMP crediting workshop as a Steering Committee member and presenter planned for 2022 regarding multi-benefit accounting and unintended consequences. 2022 Update: Several DEP staff participated in the Wetlands Outcome Attainability Workshop. DEP provided the PA State Action Plan, which included in the final Wetlands Action Plan, presenting to the Management Board in December 2022. PA highlighted several barriers, including lack of staff and funding capacity, and detailed several strategic plan objectives. 2023 Update: Introduction to Guiding Principles of Aquatic Ecosystem Restoration training was finalized and posted to the Clean Water Academy. Two comprehensive webinars and four summary presentations were also conducted as part of the development and roll-out of this training. Additional more in-depth trainings on Watershed Alterations and Effect and Practitioners Perspective training are underway in 2023 and expected to be final in 2024. Staff are assisting with the Post Construction Stormwater Water Management (PCSWM) manual revisions related to stream and wetland restoration stormwater control measures. Redrafting of the PCSWM manual language is underway. Coordination work has been on-going with providing technical expertise to the TMDL program exploring stream restoration as part of alternative restoration plans.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

							Water Quality Certifications		
2.3.5F	Expand the PFBC Stream Restoration Initiative, implementing stream restoration projects resulting in load reductions with habitat co- benefits, to counties in the southcentral region of the state, starting with one or more of the four pilot counties to include Adams, Franklin, Lancaster and York.	Expand model in Northcentral Region and work with partners in Franklin County to start a similar initiative in the Southcentral Region. This starts with the creation of new positions within the PFBC.	DEP, PFBC	NC, SC regions	January 2020	EPA provided funds to PFBC in order to hire additional staff.			 2020 Update: Completed: Four Fisherie the Northcentral stream move into the SC region. 2021 Update: PFBC has made significan restoration initiative in th resources to the Southce added four more staff in 2022 Update: PFBC continues to build the state while maintaini region. PFBC staff worked projects that improved of 2023 Update: PFBC continues to build p the state while maintaini region. PFBC staff worked projects that improved 6
2.3.5F(i)	Hire 5 new Regional Watershed Forestry Specialists to assist with Lawn Conversion and Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry	Hire RWFS for the newly created NW, Western, SW, Central, and NE regions. Continue to keep the already- existing SE and SC RWFS positions filled. All RWFS positions will focus on the Bay counties within their regions. All regions touch part of the Bay watershed.	DCNR, WPC	NE, NW, Western, Central, and SW regions.	Hire Summer 2022	Limited term positions- only 2 years of funding secured. Not Commonwealth positions.	Currently have funding for two years from USFS/FSA.	Will need continued funding to keep these positions employed.	2022 Update: This is a new milestone for All five new positions we 2023 Update: All 7 RWFS positions are integrated into the DCNR work to maintain funding

Progress to Date
(2020 - 2021 - 2022)
And
ogress Updates HIGHLIGHTED)

eries Biologists were hired in 2020 to expand am restoration model in the NC region and on.	
cant progress on the expansion of the stream n the Northcentral PA region while adding hcentral part of the watershed. PFBC also f in 2021 to assist with restoration projects.	
ild partnerships in the southcentral region of aining our partnerships in the northcentral rked with partners on 35 stream restoration d over 7 miles of stream.	
ild partnerships in the southcentral region of aining our partnerships in the northcentral rked with partners on 35 stream restoration d 6 miles of stream.	
ne for 2022-2023.	
were filled in August of 2022.	
are filled and have been fully onboarded and CNR Watershed Forestry Team. DCNR will ding for these positions in future years.	

Action	# Description	Performance Target(s)	Responsible Party(ję <u>s)</u> and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
							Financial	Financial	

	Specialist positions to seven.							
2.3.6F	Incorporate Technical Assistance funds into C2P2 grants for lawn conversion, riparian forest buffers, and TreeVitalize	Make funding available to partners so they may increase their own staff able to provide TA to landowners and other partners.	DCNR	Baywide	Begins 2022		This was fu be in place <mark>2023 Upda</mark>	w milestone fo lly accomplish for all future (te: ssistance is no
2.3.15	Complete revisions to the Pennsylvania Stormwater BMP Manual		DEP, Villanova University and subcontractor	Statewide	Draft 2022- 2023 Final 2023		internal wo 2021 Upda The update public enga 2022 Upda The new PO in 2022. It Committee for public co 2023 Upda The <u>draft P</u> comment of	ary draft is nea orkgroup for re te: ed BMP manua agement and o te: CSM Manual (o was presented comment in 20 te: ennsylvania Pi on January 28, are in the pro
2.3.25	Revise the Compliance and Enforcement Manual for Construction Stormwater		DEP, Conservation Districts	Statewide	December 2023		2022 as the is to finalize stormwate 2023 Upda DEP issued on July 1, 2 the next ye Calculating	ublished a new e first step in c e an SOP and t r inspections.

Progress to Date	Milestone
(2020 - 2021 - 2022)	Adjustments
And	(2024 - 2025)
Progress Updates HIGHLIGHTED)	

e for 2022-2023.	
lished for the Fall 2022 grant round and will re grant rounds.	
s now a fully fundable activity under C2P2	
nearly complete and will be shared with an review and comment in the near future.	
nual is still under development with a plan for nd comment in 2022.	
al (draft) is complete and was shared with EPA nted to DEP's Water Resources Advisory ober 17, 2022 and is expected to be published a 2023.	
a PCSM Manual was published for public 28, 2023. DEP and its contractor, Villanova process of responding to <u>comments</u> and	
new Chapter 102 inspection report in October in development of this manual. The next step nd training on how to conduct construction ns.	
102 Inspection SOP for conservation districts ill be providing monthly webinar trainings over ober 1, 2023, DEP issued an SOP for ties and an updated Clean Stream Law Penalty y Chapter 102 compliance staff.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
2.3.1W	Wastewater Plant Performance Technical Assistance	Perform enhanced technical assistance to wastewater treatment facilities to support reduced nutrient loadings from these facilities. DEP reports progress every 6 months to EPA for grant outputs and outcomes.	DEP	Chesapeake Bay	December 2020 Continue through 2025 as funds allow				 2020 Update: Existing Wastewater Technical Assistance program continues. Funds have been provided by EPA to purchase necessary supplies and equipment. 2021 Update: Wastewater Technical Assistance program continues. Funds have been provided by EPA to purchase necessary supplies and equipment. 2022 Update: Wastewater Treatment Evaluations (WTE) were conducted Cornwall Borough in Lebanon County (Swatara Creek / Susquehanna River Basin) Cowans Gap STP in Perry County, continued work at Guest Farm Village in Franklin County, and Bedford STP in Bedford County. Technical Assistance was provided to Mont Alto Municipal Authority in Franklin County, Sullivan Township Sewage Treatment Plant in Tioga County, Northeastern Schuylkill Joint Municipal Authority, in Schuylkill County, Somerset Township Municipal Authority in Cambria County, Newport Borough In Perry County, West Branch STP in Cambria County, Curwensville STP in Clearfield County, Hollow Creek STP in York County, and Lancaster County Bible School in Lancaster County. 2023 Update: Technical Assistance was completed at Pine Grove STP, Cornwall Borough, Fleetwood Borough STP, Bedford STP, Wellsboro STP, Somerset Borough, Little Buffalo State Park, Prince Gallitzin State Park, Curwensville Sewer Authority, Penn Estates STP, White Oaks WWTP, Brady Township, Blue Ridge Sportsman Association, and Shawnee State Park. 	
2.3.1W(i)	Wastewater Plant Performance Technical Assistance	Purchase of equipment and supplies to provide enhanced technical assistance and perform servicing and calibration of equipment	DEP		September 2021 Continue through 2025 as funds allow				 2020 Update: Existing Technical Assistance program continues. 2021 Update: Wastewater Technical Assistance program continues. Funds have been provided by EPA to provide enhanced technical assistance and perform servicing and calibration of equipment. 2022 Update: 	

A	Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and	Resources <u>Needed</u> Technical and	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
								Financial	Financial	

						Field meter sets with inst 6 regional offices, totaling staff during POTW inspec the meters was provided
						2023 Update: Equipment purchased inconstruction nitrate probes that integre each replacement consur- potential probes, and a find dissolved oxygen probes. of obsolete probe mount probe and LDO probe, reproutine laboratory suppli- Process Centrifuges & 3 C T.A. clients and High-end 2 ammonia, 1 nitrate, 1 o
2.3.1W(i i)	Wastewater Plant Performance Technical Assistance	Provide training related to reducing nutrient loads for wastewater treatment facility staff for a total of eight facilities		September 2021 Continue through 2025 as funds allow		 2020 Update: Existing Technical Assista 2021 Update: Wastewater Technical Assista 2021 Update: Water do reducing nutries staff at nine facilities. 2022 Update: DEP has provided an active Water staff in in all 6 regis certified operators at PA Training related to reduce wastewater staff at 11 ur 2023 Update: Staff have provided 16-hr
						operators at PA Rural and State Park Wastewater O course to operators in Br Wastewater Operators of PennTech Conferences a Nutrient Removal course Conference.



nstrumentation have been distributed to 6 of ing 36 meters to be used for regional office pections. Training on use and calibration of ed to staff at the time of deployment. included: Suspended solids, ammonium, and egrate with the existing field equipment. Two sumable pH and oxidation/reduction field chlorimeter kit were also bought. Two es. This requisition also included replacement ints, automated cleaning unit for ammonium replacement BUS cable for networking, and plies and test kit reagents. As well as, 3 Raven 3 Core samplers for temporary distribution to nd probe bench service, calibration, & repair: l organic carbon probes. stance program continues. Assistance program continues. Training trient loads was provided for wastewater ctivated sludge training course to Clean egions. Trainings were also provided to PA Rural and PennTech Conferences. ucing nutrient loads was provided for unique facilities. -hr. Activated Sludge Courses to certified and PennTech Conferences as well as DCNR ^r Operators in 3 regions and an additional Bradford. Additionally, our Professional course was provided at PA Rural and and our Instrumentation for Biological se was provided at PA Rural Water

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
									On-demand video training was developed, produced, and launched by BCW Technical Assistance staff as a resource for field staff who received the field meter set purchased with this grant funding and deployed in 2022. This training covers storage, maintenance, calibration and field use of meters.	
2.3.1W(i ii)	Manual for Land Treatment of Treated Wastewater	Provides guidance for planning, permitting and design of projects proposing the land application of treated wastewater. Land treatment is one alternative to surface water discharge. Nutrient requirements for new and expanding discharges may push a project sponsor to exploring alternative methods of treatment and disposal.	DEP	Statewide	Ongoing				 2022 Update: This is a new milestone for 2022-2023. Pre-draft presented to Advisory Committee. Draft for public comment expected early 2023. 2023 Update: Document being routed for approval to publish as draft for public comment. 	
2.3.1W(i v)	State Revolving Fund Technical Assistance	DEP and PENNVEST have collaborated on an RFP for Technical Assistance and Outreach the focus is on helping small and disadvantaged wastewater and water systems. The technical assistance may facilitate projects that could result on reduction of nutrients from point and nonpoint	DEP, PENNVEST	Statewide	Ongoing – Contract through SFY 22-23 with possibility of 1 yr extension		Technical		 2022 Update: This is a new milestone for 2022-2023. The RFP solicitation closed on June 21, 2022. Two proposals were received, and the review team, which included DEP staff, evaluated the proposals. PENNVEST provided the review team recommendation to the Board for consideration. The Board voted to approve the recommended offer at the July 20, 2022 meeting. PENNVEST and DEP staff will begin contract negotiation with the approved offeror which is the Larson Design Group Team; this Team consists of several consulting firms. Notice to proceed was issued on November 18, 2022. 2023 Update: Funding for the contract has been fully allocated to communities/projects. As a result of the success of the initial effort, the contract is being extended into 2024 with additional funding equal to the initial contract amount for continuation of the effort. 	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
		source of nutrient to the Bay through the development and implementation of projects through the State Revolving Fund Program. The money for this effort is provided through the Bipartisan Infrastructure Law.								
•		eporting and Tra								
		ogrammatic and Narr		5	2020 2024					
2.4.1	Pass legislation to revise Pennsylvania's Right to Know Law to allow for additional confidentiality of landowner records.		Private Sector, Agricultural Organizations		2020-2021 Legislative Session				 2020 Update: No action on this item 2021 Update: No action on this item 2022 Update: No action on this item 2023 Update: No action on this item 	
2.4.2	Develop a planning and prioritization tool for use in the development and refinement of the CAPs.	available to county planning teams for use in the	DEP, EPA, Chesapeake Conservancy, Chesapeake Commons	Chesapeake Bay	Begin 2020				 2020 Update: FieldDoc was customized to meet the needs of local stakeholders. The Data Tools Review Team, led by Tier 1 and 2 County Coordinators, provided extensive recommendations on enhancements needed to FieldDoc. This review process was completed from March 2020 to August 2020. All critical enhancements were completed by the FieldDoc development team. FieldDoc was introduced for public use in August/September of 2020. Counties are strategizing plans to increase the use of FieldDoc. Additional non-critical enhancements were identified by the Data Tools Review Team and will begin in 2021. 2021 Update: From the original Chesapeake Commons (CC) contract, FieldDoc has started the process to complete DEP's cloud use case so in the future FieldDoc can be connected to the Data Warehouse as the 	2024-2025: The CAP program will be able to estimate load reductions through FieldDoc per BMP.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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and t	he Pilot and	public facing electronic platform. DEP and CC are working closely
Tier	2 CAP	to renew the FieldDoc contract for another year to complete the
Coor	dinators will	identified enhancements from 2020. A scope of work and budget
work	together to	was submitted to DEP in 2021. CC is working on being added to the
discu	iss and	PA's ITQ Procurement List.
imple	ement the	The Tier 2 counties have been added to FieldDoc so they can input
previ	ously	non-cost share/non-regulatory BMPs into FieldDoc. Pilot county
ident	ified FieldDoc	updated goals were also submitted to be incorporated.
enha	ncements	
throu	ugh the Data	Pennsylvania's 2020 EPA model progress metrics were added to
	ew Team.	compare with the county CAP goals.
F . L .		
	ncements to	2022 Update:
	ect FieldDoc	Chesapeake Commons (CC) is currently working to complete DEP's
	the Data	cloud use case so FieldDoc can securely connected to the Data
	phouse are	Warehouse as the public facing electronic platform. All necessary
	ing, following	API updates have been completed for the connection between
•	urement and IT	FieldDoc and the Data Warehouse.
requ	irements.	
		CC completed and is approved for the PA's ITQ Procurement List
	-23: Update	and an updated Scope of Work and Budget are being prepared for
	Doc to include	an updated contract.
	bility to enter	
detai	ils on the	All Pennsylvania Counties within the Chesapeake Bay watershed
inspe	ection of	have been added to FieldDoc. With their profiles and metrics added
-	ously installed	all counties are now able to report implemented BMPs into the
	s and the	system. Several training videos and reference documents were
ехра	nsion of	created to guide counties as they began entering data. These
proje	ects that are	materials are available on the Clean Water Academy.
eligik	ble to be	
reco	rded through	Several counties reported implemented BMPs through FieldDoc
Field	Doc.	during this reporting cycle that will be counted towards PA's 2025
		goal.
DEP	Chesapeake	
Bay (Office provide	2023 Update:
virtu	al training to	The Commons has worked with Pennsylvania DEP on continued
partr	ners on the	maintenance to the FieldDoc site and ongoing enhancements.
new	features.	
		Most recent enhancements included the consolidation of all DEP
	-2024: The	CAP county programs into one master Pennsylvania Chesapeake
	program will	Bay Watershed Program. This will allow easy administration
	ple to track	changes and updates and less inconsistency when county partners
load load	reductions	report BMPs. This enhancement is currently underway and should
1		be live on the site soon. FieldDoc maintenance is ongoing.

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

2.4.3Work with the Chesapeake Bay Program Partnership, Water Quality Goal Implementation Team, to elicit support for a joint remote sensing project with other jurisdictions			The Commons also prepared a "CAP Implementation Grant Project" program for county partners to use during the 2024 CAP implementation grant round for nutrient reduction estimation of potential projects. The reduction estimates produced by FieldDoc were included the county partner's CAP applications and were taken into consideration when projects were selected for funding. The Commons also provided technical support to partners, as needed.
Chesapeake Bay Program Partnership, Water Quality Goal Implementation Team, to elicit support for a joint remote sensing project with other			The Commons first contract with DEP ended on December 31, 2023. A new Scope of Work and Budget are ready to be processed for a 2024 contract.
	DEP, EPA, Chesapeake Bay Program Partnership Artnership DEP, EPA, Chesapeake Bay Bay	Begin March 2020	Image: Control of the second secon

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)



Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
						Press All Index Proposes Charles Ind	Financial	Financial	

					As part of the USDA-EPA Crediting Task Force, remote sensing was elevated as a promising opportunity to verify BMPs more efficiently and cost-effectively. Specific to PA, a method for non-intrusive verification through remote sensing was developed and evaluated by TetraTech, serving as a third-party contractor under EPA, and the CBP Agriculture Workgroup. This method was approved by the CBP Ag Workgroup in August 2023 and can now be used to verify certain Resource Improvement (RI) practices.
2.4.4	Continue enhancements to PracticeKeeper to capture agricultural and other source sector BMPs as well as compliance and inspection tracking and reporting.	DEP	Statewide	Ongoing	2020 Update: 1. Ag Inspection Module updates complete. 2. NMP Module updates in progress. 3. BMP Module (Inspection/verification) updates nearly complete. 4. CEG enhancement in progress. 5. 319/Growing Greener enhancement in progress. 5. 319/Growing Greener enhancement in progress. 2. Nutrient Management Program Module updates in Progress. 2. BMP Module (inspection/verification) updates complete. 3. CEG enhancement complete. 4. Section 319/Growing Greener grant program enhancements nearly complete. 5. Partner plan submission in progress. 6. Tenant transfer in progress. 7. Partner Plan Submission enhancement complete. 1. Partner Plan Submission enhancement complete. 2. Transfer data ownership enhancement complete. 3. Section 319/Growing Greener grant program enhancements (Phase 1) Complete.
					2023 Update: 1) Misc. enhancements complete, including: a) Ag. Inspection Modifications b) Attachment G Modifications c) Upcoming Status Review Report d) Updates to CBP-23 Report e) Data Explorer updates (save data queries) f) Shapefile for Spatial data export g) Conservation Plan Module Inspections Tab h) Waste Storage Details i) Add BMP button j) Updates to Copy BMP tool k) Attachment F Updates

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterampa			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

					 I) Archiving/Records Retentions m) Generated Manure Updates 2) Growing Greener and 319 Phase 2 Enhancements are complete.
2.4.5	Update the Pennsylvania BMP Verification Plan and Quality Assurance Program Plan (QAPP)	2022-2023 Update:DEP, EPADEP will be workingDEP, EPAin 2022 via the CBPWatershedWatershedHomeTechnicalWorkgroup to giveSuggestions onUpdating the QAPPformat andrequirements. DEP	Chesapeake Bay	Annually, as needed	2020 Update: Both were updated and sent to EPA on December 1, 2020 - there may be updates if additional progress information is presented from the Penn State Survey.2021 Update: DEP sent out new QAPP guidance and template to all of 37+ data reporters to be incorporated into the 2021 QAPP. The QAPP and BMP Verification Plan Addendum were updated and submitted to EPA's CBPO by the December 1, 2021 deadline. DEP continues to
		will continue to submit revised QAPP based on established content requirements and timelines.			work with EPA's CBPO and Water Division to clarify their QAPP expectations. DEP met multiple times with EPA and provided written responses to questions provided by EPA over the course of several months leading up to the QAPP and BMP Verification Program Plan submission. The 2021 QAPP and BMP Verification Program Plan are posted to <u>DEP BMP Verification</u> website. 2022 Update:
		2023-2024 Update: DEP will continue to update the QAPP according to the specifications of EPA and add new reporters as necessary.			DEP sent QAPP guidance and template to all of 39+ data reporters to be incorporated into the 2022 QAPP. The QAPP and BMP Verification Plan Addendum were updated and submitted to EPA's CBPO by the September 1, 2022 deadline. DEP continues to work with EPA's CBPO and Water Division to clarify their QAPP expectations. DEP met multiple times with EPA and provided written responses to questions provided by EPA over the course of several months leading up to the QAPP and BMP Verification
					Program Plan re-submission on December 1, 2022. The 12/01/22 QAPP included new updates for the Turnpike Commission and US Army Corps and Engineers. DEP extensively updated the PennState Survey QAPP Submission and the new method from Transect Survey / PennState survey collaboration for cover crops. The 2022 QAPP and BMP Verification Program Plan are posted to <u>DEP BMP</u> <u>Verification</u> website.
					2023 Update: DEP sent QAPP guidance and the associated DEP reporting template to all 40 data reporters for incorporation into the 2023 QAPP. The QAPP report was standardized to record individual reporter methods. The updated QAPP, along with the BMP Verification Plan

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)

A	ction #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
			2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Chemical Index Proceeding Scotter (199	Financial	Financial	

				Addendum, were submitted to EPA's CBPO by the September 1,2023 deadline. DEP continues to work with EPA's CBPO and WaterDivision to meet quality assurance expectations. DEP met with EPAand provided written responses to questions provided by EPA overthe course of several months leading up to the QAPP and BMPVerification Program Plan re-submission on December 1, 2023. The12/01/23 QAPP included new updates for Larson Design Group(LDG) Non-Intrusive BMP Verification Standard of Procedure andmethodology. The 2023 QAPP and BMP Verification Program Planwill be published here upon EPA approval:https://www.dep.pa.gov/Business/Water/Watershed-Restoration/Chesapeake-Bay-Watershed-Restoration/Farms-and-the-Bay/Pages/BMP-Verification.aspx
 Work with EPA and the Chesapeake Bay Program Partnership to enhance the existing crediting protocols for programs and practices that improve water quality in Pennsylvania not currently getting full credit in the Chesapeake Bay Watershed Model. Finalized crediting protocol that considers all aspects of practice and programs not currently getting full credit in the Chesapeake Bay Watershed Model. Finalized crediting protocol that considers all aspects of practice and programs not currently getting full credit in the Chesapeake Bay Watershed Model. 	r	January 2021 Ongoing	Buy in from the Chesapeake Bay Program Partnership	 2020 Update: Presented to the Management Board in April 2020 as it related to stream and wetland compensatory mitigation and mitigation banks. Requested responses from EPA CBPO in early summer 2020 as it related to wetland and stream compensatory mitigation and mitigation banking. Received EPA CBPO draft response on 12/1/2020. Next steps are currently under consideration. Working with DEP Bureau of Abandoned Mine Reclamation (BAMR) on strategies for accounting for and crediting water quality improvements as it relates to mine reclamation/AMD projects. Pulled together a group of internal and external subject matter experts (DEP, SCC, Penn State Extension, Consulting entities) to better account for and credit Dairy Precision Feeding. 2021 Update: SCC has been working with Penn State University and through the Chesapeake Bay Ag Workgroup to develop and approve a methodology for Dairy Precision Feeding. The Chapter 105 proposed rulemaking includes amendments to Section 20a, which is proposed to be retitled Compensation for impacts to aquatic resources. The proposed for update to Section 20a coincides with advances in science and current understanding of environmental and aquatic resource restoration principles. These revised requirements will also dovetail with the federal mitigation rule, so



Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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						ection 20a will establish
						cluding siting criteria for f impacts and the valuati
						nonitoring and performa
						onicoring and performa
					D	EP has been in discussio
					re	epresentatives and have
					w	orkshop proposal to be
						n in-stream water quality
						nprovements due to AM
						oal would be to hold the
					to	or a convening of an Expe
					2	022 Update:
						CC continues to work wit
						hesapeake Bay Ag Work
						nethodology for Dairy Pre
					D	EP and SRBC continues of
						TAC Literature Review, b
						ater quality and habitat
					Sy	/stems.
					D	EP and SRBC are working
						egarding the in-stream w
					fr	eshwater mussels.
					D	EP works with NRCS rega
						re funded by USDA but n
						e.g. Conservation Stewar
						nd NRCS are awaiting the
					tr	ne state and federal data
					20	023 Update:
						CC and DEP representati
						ask Force as active partic
						ction plan to ensure that
						griculture BMPs are cred
						eduction progress. The p
						SGS, DEP, and SCC was o
						y EPA in November 2023
						ederal agencies continue nsure all implemented B
						isure an implemented b
	1	1	1			

lish compensatory mitigation standards a for service areas, standards for assessment luation of proposed compensation, rmance standards.

ssion with USGS, CBPO staff, and STAC ave begun the development of a STAC be submitted in February 2022, with a focus ality improvements and habitat AMD treatment systems. If approved, the the workshop in late 2022, with a potential Expert Panel in early 2023.

k with Penn State University and through the Yorkgroup to develop and approve a Y Precision Feeding.

es discussions with STAC leads regarding the w, beginning June 2022, on the in-stream itat improvements of AMD treatment

rking together, with MDE, CBF, and NFWF, m water quality and habitat benefits of

regarding the identification of practices that out not currently credited toward progress wardship Program). Additionally, DEP, SCC, g the USGS report on data overlap between data sets, which began in 2020.

tatives served on the USDA-EPA Crediting articipants in the development of the strategic that all federal reporting and cost-shared credited toward states' nutrient and sediment he pilot data sharing project between USDA, vas completed, with the final report provided 2023. Discussions between state, local, and nued; action has yet to be taken by the CBP to ed BMPs are credited.

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

2.4.7	Install additional monitoring station(s) and begin to collect "real-time" water quality data on the Susquehanna River to further document the story of progress made by Pennsylvania's efforts to restore local streams and the Chesapeake Ba as part of implementation of the Phase 3 WIP	Monitoring station(s) and water quality results. 2022-2023 Update: The 2022 Integrated Water Quality Monitoring and Assessment Report (Integrated Report) will be published in 2022. It shows the delisting of many impaired stream miles that have been restored to water quality standards, including 32 miles of the Bennet Branch Sinnemahoning Creek. The 2022 Integrated Report includes a section dedicated to the Chesapeake Bay and activities to	DEP Bureau of Clean Water	Susquehanna River	January 2021 Ongoing	1 person \$600,000	2022 and published to the https://storymaps.arcgisessede12 The 2022 International Statement of the second statement of the sec
		Integrated Report includes a section dedicated to the					



t 77 Water Quality Network Stations in the ues at up to monthly frequency. This includes ng stations that are sampled monthly and are ay non-tidal network that includes an addition sampling events per year.

ual to the DUET database and select stations ds analysis to measure progress in the <u>2020</u> e results of the trends analysis of mainstem ect tributaries is generally a reduction in total ediment throughout the basin over the past

Division has successfully submitted additional he period of 2010 - 2020 to the national The enhancement updated/added a total of m 64,907 sampling events. This provides other han is provided with the Water Quality ds are statewide but the majority are from the

021 SNAP report in storymap format in

Report was approved by EPA on August 3, o the DEP website here: <u>gis.com/stories/b9746eec807f48d99decd3a5</u> ntegrated Water Quality Report includes a Bay Watershed restoration efforts as well as cts in Pennsylvania.

ated Report was available for public comment , 2023. The Draft 2024 Integrated Report hesapeake Bay Watershed restoration efforts inge Impacts in Pennsylvania and additional g to Environmental Justice.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(j <u>es</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	(2023 Pro
2.4.7(i)	Install real-time monitors at the Marietta Non- Tidal Network (NTN) station to collect continuous water temperature (WT), specific conductance (SC), pH, Dissolved Oxygen (DO), Turbidity, and Nitrate plus Nitrite (NOx).	Communities story map and the Sediment and Nutrient Assessment Program (SNAP) Report by SRBC that has been reformatted to an interactive report using an ESRI Storymap application. The resulting combination of discrete and real- time data will be used to characterize continuous nitrogen, phosphorus, and sediment.	DEP, USGS, EPA	Susquehanna River	Beginning September 2022				 2022 Update: This is a new milestone FY18 Section 319 Nonpope Pennsylvania state Chess Fund will be used for the quality monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was complete and monitoring system As of August 2022, the of was successful the of the of
2.4.8	Updates to the Nutrient Credit Trading Program – Nutrient Trading Tool	Incorporate performance-based credit trading tool through the Chesapeake Bay Nutrient Tracking Tool (CBNTT) for	DEP Bureau of Clean Water	Chesapeake Bay	Beginning January 2020				(shinyapps.io) 2020 Update: CBIG3 and NEIEN fundir and are available, and t approval to proceed wit 2021 Update:

Progress to Date
(2020 - 2021 - 2022)
And
rogress Updates HIGHLIGHTED

te for 2022-2023. Funds from EPA FY17 and point Source Management grants and esapeake Bay Agricultural Source Abatement the installation costs of this enhanced water stem at Marietta.	
e deployment of the Next Generation Station onitoring and data reporting to the USGS ully occurring.	
of paired continuous and discrete water e regression models are currently under efforts will focus on developing models to t. Data collection will continue through the r the purpose of developing and refining	
tion, among all other NTN stations, is included y TMDL Indicator Tool, located here: L Indicator (Non-Tidal Network Stations)	
ding sources for the work have been identified I the vendors are ready to proceed, but vith the work contracts has not been granted.	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

transparent, interactive, site-	CBIG3 and NEIEN fundin to update CBNTT for use
specific, and	pursue updating RIBITS
regionally	Program.
consistent	
methodology linked	2022 Update:
to the Chesapeake	TIAER has completed de
Bay modeling tools,	integrated MTT.
for calculating	
nutrient credits	Thorough testing was co
that can be	aggregators. Results of
generated from	results with calculations
nonpoint sources	
and used by point	CB Registry update of RI
sources to meet	Associates Inc. (ARA). T
NPDES permit	upon and contracting pr
obligations in a	
cost-effective way	EPA and USDA have give
	the 2022 trading season
More detail can be	
found in DEP's	CBNTT went live on DEP
workplan for the	utilize on July 22, 2022.
Chesapeake Bay	Nutrient Trading season
Implementation	
Grant. DEP reports	2023 Update:
progress every 6	DEP met with ARA and I
months to EPA for	discussion and testing.
grant outputs and	2023. Currently working
outcomes.	customizing the site for
	rollout by March 2024.
2022-2023 Update:	
The PA Nutrient	
Credit Trading	
Program (Program)	
intends to use	
RIBITS, the	
Regulatory In lieu	
fee and Bank Information	
Tracking System developed by the	
US Army Corps of Engineers with	
support from EPA,	
support nom ErA,	

ding sources are available and work has begun use by the Program. The Program intends to IS to serve as a tool for administering the	
development of the tool and successfully	
completed by DEP, EPA, USDA and former of testing show were positive with satisfactory ons and user experience.	
RIBITS will be contracted to Applied Research Terms and conditions have been agreed process has commenced.	
iven DEP approval for adoption of CBNTT for on.	
EP's website for the regulated community to 2. It is currently available for the 2022 on.	
d Maryland bi-weekly starting in June 2023 for g. Test environment was delivered August sing on registry aspects of the website, or PA use. Website should be completed for 4.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
		US Fish & Wildlife Service, Federal Highway Administration, and NOAA Fisheries to track water quality trading (WQT) activities and credits for restoration banks recognized under Natural Resource Damage Assessment statutes. The WQT portion was sponsored by the USDA Office of Environmental Markets. Currently, VA is participating as a pilot state and MD also intends to use RIBITS. PA's use of RIBITS will facilitate Program activities and increase consistency and transparency in trading among Bay states.								
2.4.8(i)	Continue to implement 3:1 trading ratio for nonpoint source (NPS) credit generation and trading until performance- based or other method-based	This interim policy has been in use and is documented in the Phase 2 WIP Nutrient Trading Supplement found on DEP's Nutrient Trading website	DEP Bureau of Clean Water	Chesapeake Bay	Ongoing				 2020 Update: The 3:1 ratio continues to be implemented until the program has moved to CBNTT and uses a performance-based calculation methodology. 2021 Update: The 3:1 ratio continues to be implemented until the program has moved to CBNTT and uses a performance-based calculation methodology. 2022 Update: 	2024-2025: This milestone was completed in 2022.

Action #	Description	Performance Target(s)	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		and 2024-2025 Updates	Partnersnips			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and 2024-2025 Updates	Responsible Party(j <u>es</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
	tool (e.g. CBNTT) is established								CBNTT was released on July 22, 2022 memorializing DEP's transition from practice based to performance based calculations, now implementing a 2:1 uncertainty ratio for all nonpoint source generators.	
									2023 Update: Performance based calculations continue to be implemented with a 2:1 uncertainty ratio for all nonpoint source generators. This milestone has been completed.	
2.4.8(ii)	Release CBNTT for use	Update 2022-2023: CBNTT will be available for use in 2022. DEP received EPA support for release.	DEP	Chesapeake Bay	September 2022				 2022 Update: This is a new milestone for 2022-2023. CBNTT was released July 22, 2022 with EPA and USDA support. 2023 Update: CBNTT was released July 22, 2022 with EPA and USDA support. This milestone has been completed. 	2024-2025: This milestone was completed in 2022.
2.4.8(iii)	Publish revised draft Nutrient Trading Supplement, incorporating CBNTT Performance- based methods to DEP website	Update 2022-2023: Draft supplement will be published to the DEP website to ensure consistent communications.	DEP	Chesapeake Bay	December 2022				 milestone has been completed. 2022 Update: This is a new milestone for 2022-2023. Draft supplement was published to the DEP website on October 20, 2022 ensuring consistent communications. 2023 Update: Supplement was finalized. This milestone has been completed.	2024-2025: This milestone was completed in 2022.
2.4.9	Continue to work with the Federal Facilities Workgroup and Federal Facilities to report BMPs installed and maintained and finalize local planning goals		EPA, DEP, DoD	Chesapeake Bay	Ongoing				 2020 Update: The federal BMPs were reported to EPA for 2020 Progress. 2021 Update: Federal Facility BMPs received from Federal partners were reported with Pennsylvania's 2021 Progress Submission. DoD tracking has shown Pennsylvania's reporting of Federal BMPs is at one of the highest success rates (NEIEN acceptance) in the watershed. 2022 Update: The federal facility BMPs were reported for 2022 Progress Submission to EPA. However, DEP discovered that the federal facilities were reporting large impoundments as stormwater BMPs. DEP, USACE, and DoD collaborated to correct the data set for these BMPs. 	

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnersmps			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

							2023 Update: Federal Facility BMPs rec
2.4.10	Active participation and collaboration in Chesapeake Bay Partnership Technical Workgroups focused on CAST model updates	Integrate best available data and science from Pennsylvania and ensure that historic model process issues like excess/cutoff are addressed across the partnership in the two-year CAST model updates.	DEP, SCC, DCNR, EPA, Chesapeake Bay Jurisdictions, NRCS, DoD, and Partnership	Chesapeake Bay	CAST-23 planning begins 2022		with Pennsylvania's 2023 2022 Update: This is a new milestone for DEP and other stakehold EPA's CBPO office workg Quality Goal Implementa updates to CAST. Notably in 2021, the DEP Verification Ad Hoc Come Land Use and Water Tech Steering Committee cone the summarized 2021 out 1. BMP Verification Ad Hedurations for Barnyard R Management (LLM), Fore Presented findings from programs related to BRC, were changed from 10 to feedback on BMP Verification
							reported BMPs from fede duration expiration. 2. NRCS NEIEN Crosswalk identify gaps in reporting One area of recent note practices (such as those the Program CSP funding) be "crosswalk" in the NEIEN addressed no later than of together to ensure that it 2. Ag Ad Hoc Committee Pennsylvania on the Ag A the CAST-21 workplan. He that were raised by Penn partnership support, suc on full-season soybeans a modeling tools.

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
s received from Federal partners were reported	
2023 Progress Submission.	
ne for 2022-2023.	
nolders regularly attend and contribute to orkgroups under the Bay Program's Water entation Team for science-based technical	
DEP participated in the newly formed BMP committee, Agriculture Ad Hoc Committee, Technical Work Group, and Conowingo WIP concerning the CAST21 Workplan. Below are 1 outcomes:	
ad Hoc Committee: Discussed BMP Credit rd Runoff Control (BRC), Loafing Lot Forest Buffers, Grass buffers, and Wetlands. om Pennsylvania's verification and inspection BRC/LLM. Forest Buffers and Tree Plantings 0 to 15-year credit duration. DEP gave rification and the volume of the historically federal sources (such as CREP) lost to credit	
walk: DEP and SCC have worked with NRCS to rting, including the LOU described in 2.4.4A. ote is the inability to report many NRCS funded ose funded through Conservation Stewardship because there is not an associated EIEN list. This is a significant issue that must be han CAST-23, and DEP and NRCS will work nat it is included in the CAST-23 workplan.	
ttee: DEP and SCC staff represented Ag Ad Hoc Committee to review and execute n. However, multiple areas of the workplan rennsylvania were not addressed due to lack of such as modeled nutrient management issues ans and the addition of known animals into the	

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

				3. Land Use Workgroup: I cover/use 2017-2019 upd with Chesapeake Conserv review. Incorporated a ne
				4. Watershed Technical W issues related to forest bu
				5. Conowingo WIP Steering the Steering Committee a to Activity 1, 2, and 3. Act management, tracking an Chesapeake Conservancy, requirements and creditir
				6. CAST-21 – At least 16 s Secretaries and other Exe been engaged throughout CAST-21. More than 290 one item alone. Multiple
				Chesapeake Bay Partnersh Management Board, and levels. DEP staff conducte concerns brought forth to specifically focused on fer decks and briefing docum
				regarding these concerns. Fertilizer Data Improveme with other jurisdictions w
				DEP will continue to addro EPA CBPO Workgroups un Committee, Management Implementation Team.
				2023 Update: DEP and other stakeholde contribute to EPA's CBPO Program's Water Quality (
				based technical updates t improvements to the mod the lifespan of wetland BI extending the lifespan for
				new Non-Intrusive BM

Progress to Date (2020 – 2021 - 2022) And rogress Updates HIGHLIGHTED)

Milestone Adjustments (2024 – 2025)

ip: Discussed new land classifications,
 updates and hydrography data. Partnered
 servancy to provide local land cover/use
 a new method of detecting extractive lands.

al Workgroup: Discussed back out and cutoff to buffers.

eering Committee: Participate as a Co-chair of ee and actively engage in discussions relating Activity 3 is focused on BMP data g and reporting; work with Activity 3 leads, ncy, to ensure streamlined reporting diting.

16 state agency staff, including Cabinet Executive Staff of DEP, PDA, and DCNR, have nout 2022 on the evaluation and review of 290 personnel hours have been spent on this iple meetings were held with CBPO and the hership at the Principals Staff Committee, and Water Quality Goal Implementation Team ucted extensive research regarding the h to the partnership about CAST-21, n fertilizer sales data, and developed slide cuments to inform executive staff and others erns. In December 2022, a draft Action Plan for ements was developed by DEP and shared as within the Chesapeake Bay Partnership.

ddress CAST updates through these and other s under the governance of the Principals Staff nent Board, and Water Quality n.

DEP and other stakeholders continue to regularly attend and contribute to EPA's CBPO office workgroups under the Bay Program's Water Quality Goal Implementation Team for sciencebased technical updates to CAST. Because of this attention, improvements to the model have been made including: removing the lifespan of wetland BMPs (they no longer have an end date), extending the lifespan for forest buffers to 15 years, approving the new Non-Intrusive BMP Verification methodology, providing

Action #	Description	Performance	Responsible	Geographic	Expected	Potential	Resources	Resources	
		Target(s)	Party(jes) and	Location	Timeline	Implementation	Available	Needed	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
						15-2017-000601 2010-040-01000-060-0100	Financial	Financial	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
									comments on the new high resolution land use layer including the issue of it not detecting buffer BMPs as had been one of the goals, approving the Oyster BMP that may be useful to the proposed Freshwater Mussel BMP, approving the TMDL Indicator to track monitored reductions against modeled expectations, approving the change in nutrient application and timing to make all crops eligible to receive both manure and inorganic fertilizer. The new Agricultural Modeling Team is also attended with the goal of developing the next iteration of the CAST model.	
2.4.11	Hire 1 Aquatic Biologist to support nonpoint source management program and to conduct water quality monitoring assessments with a focus on Tier 1 and Tier 2 counties	2022-2023 Update: Aquatic Biologist will support Section 319 grantees and Conservation District Watershed Specialists, while also conducting and reporting water quality monitoring within the Chesapeake Bay Watershed.	DEP	Statewide with a focus on Chesapeake Bay	July 2022				 2022 Update: This is a new milestone for 2022-2023. Aquatic biologist was hired to further support Pennsylvania's Nonpoint Source Management Program by July 2022. 2023 Update: This milestone is complete. 	2024-2025: This milestone was completed in 2022.
2.4.12	Hire 1 Environmental Group Manager to oversee the Chesapeake Bay Partnership Section	2022-2023 Update: Environmental Group Manager will provide additional oversight and management of DEP Chesapeake Bay data tracking, reporting, and coordination efforts with EPA and other federal and jurisdictional partners.	DEP	Chesapeake Bay	December 2022				 2022 Update: This is a new milestone for 2022-2023. Environmental Group Manager was hired by October 2022 to oversee the tracking, reporting, and modeling efforts with EPA and other federal and jurisdictional partners. In addition, after reorganization taking place in Fall 2022, an Environmental Program Manager was hired by December 2022 to oversee the Chesapeake Bay Watershed Restoration Division – including Chesapeake Bay Partnership and Watershed Accountability and Administration Sections. 2023 Update: This milestone is complete. 	2024-2025: This milestone was completed in 2022.
2.4.13	Hire 1 Environmental Group Manager to oversee the Watershed Support Section	2022-2023 Update: Environmental Group Manager will provide additional oversight and management of the EPA Section 319	DEP	Statewide	December 2022				 2022 Update: This is a new milestone for 2022-2023. Environmental Group Manager was hired by October 2022 to oversee the Nonpoint Source Management Program, Growing Greener, Conservation District Watershed Specialist programs. In addition, after reorganization taking place in Fall 2022, an 	2024-2025: This milestone was completed in 2022.

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	(2023 Pro
		Nonpoint Source (NPS) Management Program, DEP Growing Greener Plus, and Conservation District Watershed Specialist Programs. This position will oversee reporting of Section 319 NPS Management Program efforts to EPA.							Environmental Program oversee the Nonpoint So Watershed Support, Con Compliance Sections. 2023 Update: This milestone is comple
		umeric Commitments							
2.4.1A	Work with the Chesapeake Bay Program Partnership to establish a creditable practice or combination of practices for implementation of advanced soil health strategies or plans on farms in the Chesapeake Bay Watershed Model for future crediting of these initiatives. Once established as a practice or set of practices that can be credited for progress in the model, commit additional funding or the technical and		DEP, PDA, SCC		January 2021	Buy in from the Chesapeake Bay Program Partnership			2020 Update: Action has not started 2021 Update: Action has not started 2022 Update: Action has not started. discuss. 2023 Update: Pennsylvania's Sustainal the Sustainable Agricult Chesapeake Bay MEB IIJ Agriculture Board, grant dollar match) will be aw and are considered "clin practices, such as cover grazing, working buffers silvopasture. Although watershed due to funds statewide funding as it b collective BMP, soil heal a priority for Pennsylvar

Progress to Date
(2020 - 2021 - 2022)
And
Progress Updates HIGHLIGHTED)

am Manager was hired by December 2022 to at Source Management Division – including Conservation District Support, and Agriculture nplete.	
d	
d	
d. Will convene partner group in early 2023 to	

inable Agriculture Board, provided for under sulture Act, will be funded in part by B IJJA funds. Related to the Sustainable ants of up to \$25,000 (or \$50,000 if dollar per awarded for projects that improve soil health climate smart" or "regenerative agriculture" ver crops, conversion of cropland to rotational fers, forested buffers, agroforestry and gh limited initially to the Chesapeake Bay nds being used, it is the SCC's intent to provide it become available. While not credited as a realth and sustainable agriculture lands remain vania's agriculture industry.

Action #	Description	Performance Target(s)	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and 2024-2025 Updates	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

	financial assistance necessary to implement these practices.					
2.4.2A	Expand reporting of dairy precision feeding	Assess and report implementation of dairy precision feeding for 175,000 Animal Units (approximately 152,000 milking cows)	PDA, Dairy Co-ops, PACS Program, Dairy Nutritionists, PA Dairyman's Assoc., CDs, NRCS	December 2025	Voluntary program. Need to have the ability to track and report what farmers are already doing.	 2020 Update: Action is moving forward be presenting to the CBF 2021 Update: PDA and PSU have prese PDA and PSU are develo consideration. 2022 Update: Data is being collected f for what farmers are alree 2023 Update: No updates since last ye a priority for additional r
2.4.3A	Expand reporting of Enhanced Nutrient Management	64,640 acres with no manure applied would be managed based on a nitrogen and phosphorus based nutrient management plan; 64,640 acres with no manure applied would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus.	4R Nutrient Stewardship Alliance, PACS, CCAs, CDs, SCC, DEP	December 2025	Voluntary program. Need to have the ability to track and report what farmers are already doing.	 2020 Update: Working on the incorport nutrient management (N 38 Status Reviews. CBAIP – Standard Operaleased to support the orduring inspections. Counties have included actively working to verify and other funding source Alliance). Action is moving forward developing forms 2021 Update: Verification of Supplet on Act 38 Annual Status webinar was held for centreference.

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)

ard as planned, workgroup discussing and will CBP Ag Workgroup in January 2021	
esented this approach to the Ag Workgroup. eloping a proposal for workgroup	
d from dairy cooperatives to use as baseline already doing.	
year, however, SCC will be resurfacing this as al research in 2024.	
orporation of verification of Supplemental t (NM) BMP implementation during annual Act	
perating Procedure and training materials ne tracking of Supplemental NM BMPs verified	
ded these BMPs into their CAPs and are rify them through CAP Implementation Grants urces and partnerships (e.g. NFWF and 4R	
ard as planned, workgroup discussing and	
plemental Nutrient Management (NM) BMPs us Reviews began October 2021. A live certified technicians and recorded for future	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
	Expand reporting of grass buffers	Tracking of acres with manure applied, where the land would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus 50,000 acres of land adjacent to streams for establishment of grass buffers at least 35 feet in width	NRCS, DEP, CDs		December 2025	Costs associated with on-site inspection to determine grass buffers; use of aerial imagery a potential;	new high- resolution land use layer is being explored for reporting of grass buffers		 Counties are actively reporting supplemental NM BMPs in the PracticeKeeper Database while conducting inspections and site visits. Coordinating with Penn State University and SCC for the deployment of the 2022 Penn State Voluntary Producer Survey for the Tier 2 and Tier 3 counties, which will also capture supplemental NM BMP implementation. 2022 Update: Developed and deployed supplemental onsite status review form for Act 38 Concentrated Animal Operations (CAOs), which resulted in increased reporting of implemented supplemental Nutrient Management practices. 2023 Update: 1) Enhanced supplemental onsite status review form for Act 38 Concentrated Animal Operations (CAOs), which resulted in increased reporting of implemented supplemental Nutrient Management practices. 2) Deployed Data Warehouse which automates the export of PK supplemental NM data and assists with QA/QC. 2020 Update: Agricultural Grass Buffers are being reported through PracticeKeeper, as well as the BMP Partner submission module through the Agricultural Plan Reimbursement Program. Grass buffers are also being reported through Penn State survey, that is scheduled to report by the end of 2020. 2021 Update: Agricultural Grass Buffers were reported to EPA's CBPO from PracticeKeeper, as well as the BMP Partner submission module through the Agricultural Plan Reimbursement Program, and Penn State survey as part of DEP's 2020 progress submission. Grass Buffer credit duration was being assessed in the Chesapeake Bay Program Partnership BMP Verification Ad Hoc Committee. As shown in the Numeric Milestones, submitted progress through 2021 shows an increase in reported grassed buffer acres. DEP, SCC, NRCS, and USGS hold a joint Letter of Understanding (LOU) to assess duplication of Conservation Technical Assistance (CTA) reporting in four counties. Currently, NRCS reported CTA projects do not get accounted for due to concerns related to 	2024-2025: New high resolution land use layer available for use in potential reporting.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partnerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

2.4.5A	Inventory existing agricultural BMPs and BMP needs through survey,	PDA, SCC, DEP, CDs, Penn State Extension, NRCS, USGS, EPA	Beginning Spring 2020	2020 Update: 1. PA Farm Conservation submitted by agricultura Counties. Verifications w professionals, and data a
				DEP, SCC, NRCS, and USG (LOU) to assess duplicati (CTA) reporting in four co projects do not get accou duplicate reporting. DEP assess with NRCS reporte final report in November
				2023 Update: Increases in grass buffers buffers, and narrow gras been reported in 2023 no collection of grass buffer for verification of grass bu ongoing.
				DEP, SCC, NRCS, and USC (LOU) to assess duplicati (CTA) reporting in four co projects do not get accor duplicate reporting. DEP assess with NRCS report produced a report from t
				2022 Update: Increases in grass buffers buffers, and narrow grass been reported in 2022 nd collection of grass buffer for verification of grass b ongoing.
				duplicate reporting. DEP assess with NRCS reporte produced a report from

Progress to Date (2020 – 2021 - 2022) And rogress Updates HIGHLIGHTED) Milestone Adjustments (2024 – 2025)

EP provided state reported data to USGS to orted data. To date, USGS has not yet m this data sharing project.

fers on fenced pasture corridor, narrow grass rass buffers on fenced pasture corridor have 2 numeric progress. Further refinement and fers, as well as determining best approaches as buffers with expired credit duration, are

JSGS hold a joint Letter of Understanding ation of Conservation Technical Assistance r counties. Currently, NRCS reported CTA counted for due to concerns related to EP provided state reported data to USGS to orted data. To date, USGS has not yet m this data sharing project.

Fers on fenced pasture corridor, narrow grass rass buffers on fenced pasture corridor have 8 numeric progress. Further refinement and fers, as well as determining best approaches as buffers with expired credit duration, are

JSGS hold a joint Letter of Understanding ation of Conservation Technical Assistance r counties. Currently, NRCS reported CTA counted for due to concerns related to EP provided state reported data to USGS to orted data. EPA provided the complete and ber 2023.

on Practices Inventory was voluntarily ural operators in Adams, Franklin, and York s were completed by Penn State Extension a analysis is on-going.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

agricultural planning, and		2. MOU is finalized, and data analysis and comparison is ongoing across DEP PracticeKeeper and USDA datasets in Franklin, Juniata,
inspection programs,		Lancaster, and York Counties.
focusing on geographic areas through the		3. The Chesapeake Bay Ag Inspection Program (CBAIP) continues to collect and report BMP data across the PA Bay watershed as part of initial and follow-up inspections.
Tiered approach		4. CBAIP has initiated Phase 2 (Plan and BMP Implementation) inspections in Adams, Chester, and Lancaster Counties.
		PA's Agricultural Plan Reimbursement Program BMPs are continuing to be reported to Practice Keeper by Team Ag and Larson (APRP contractors) through the BMP Partner Module.
		2021 Update: 1. PA Farm Conservation Practices Inventory was voluntarily submitted by agricultural operators in Adams, Franklin, and York Counties. Verifications were completed by Penn State Extension professionals, and data analysis is complete.
		2. Data analysis and comparison is ongoing across DEP PracticeKeeper and USDA datasets in Franklin, Juniata, Lancaster, and York Counties.
		3. The Chesapeake Bay Ag Inspection Program (CBAIP) continues to collect and report BMP data across the PA Chesapeake Bay watershed as part of initial and follow-up inspections. The <u>2020-2021 Agriculture Inspections Annual Summary</u> was published to the website in December 2021.
		4. CBAIP Phase 2 (Plan and BMP Implementation) inspections continue in Adams, Chester, and Lancaster Counties and has expanded to all counties where initial inspections are complete. Information related to the Phase 2 portion of the CBAIP is included in the 2020-2021 Agriculture Inspections Annual Summary.
		5. SCC and DEP continue funding and support for the PaOneStop program. Enhancements to PaOneStop will allow for use during the 2022 producer survey data collection.
		2022 Update: 1. PA Farm Conservation Practices Inventory was voluntarily submitted by agricultural operators in Tier 2 Counties. Verifications

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

		were completed by Penn State Extension professionals, and data analysis is nearly complete.
		2. Data analysis and comparison is complete across DEP PracticeKeeper and USDA datasets in Franklin, Juniata, Lancaster,
		and York Counties. DEP awaits the report from USGS.
		3. The Chesapeake Bay Ag Inspection Program (CBAIP) continues to collect and report BMP data across the PA Chesapeake Bay watershed as part of initial and follow-up inspections. The 2021-2022 Agriculture Inspections Annual Summary was published to the website in October 2022.
		4. CBAIP Phase 2 (Plan and BMP Implementation) inspections were completed in Adams, Chester, Clinton, Columbia, Franklin, Lancaster, Lebanon, Montour, Sullivan, and York Counties and continues to expand to all counties where initial inspections are complete. Information related to the Phase 2 inspections is included in the 2021-2022 Agriculture Inspections Annual Summary.
		5. SCC and DEP continue funding and support for the PaOneStop program. Enhancements to PaOneStop will allow for use during the 2022 producer survey data collection. Ag. E&S Plan Module to PAOneStop complete.
		2023 Update: 1. The Chesapeake Bay Ag Inspection Program (CBAIP) continues to collect and report BMP data across the PA Chesapeake Bay watershed as part of initial and follow-up inspections. The 2022- 2023 Agriculture Inspections Annual Summary was published to the website in December 2023.
		4. CBAIP Phase 2 (Plan and BMP Implementation) inspections were completed in Adams, Berks, Chester, Clinton, Columbia, Franklin, Fulton, Lackawanna, Lancaster, Lebanon, Montour, Perry, and Sullivan Counties and continues to expand to all counties where initial inspections are complete. Information related to the Phase 2 inspections is included in the <u>2022-2023 Agriculture Inspections</u> <u>Annual Summary</u> .
		5. SCC and DEP continue funding and support for the PaOneStop program. Development of the Manure Management Module to PAOneStop is on-going.



Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Farmerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

							6. SCC will collect BMP d
2464	Develop or	2022 2022 Undeter		Chasaraaka	Decimains	 	are now hired and visitin
2.4.6A	Develop an electronic reporting system for CAFOs to submit annual reports	2022-2023 Update: DEP will conduct work, using state and federal funding, to develop the CAFO Annual Report e-Reporting Framework to meet EPA e-reporting rule	DEP	Chesapeake Bay/Statewid e	Beginning 2022 through 2024		2022 Update: CAFO eReporting tool for 2023 Update: CAFO eReporting tool for involving a limited numb
2.4.7A	Develop functionality for the trained partner submission and DEP or CCD review of verified agricultural BMPs and farm plans	2022-2023 Update: DEP will conduct work using federal funding to develop the PracticeKeeper Partner Submission Planning Modules and enhance the PracticeKeeper Partner Submission BMP Module.	DEP	Chesapeake Bay/Statewid e	October 2022		2022 Update: Partner plan submission guidelines and web-base third-party verifiers to pr qualifications and criteria 2023 Update: Partner submission mode functionality has been ex EPA Section 319 Project
2.4.8A	Develop and release a NRCS Customer Record Request Form and accompanying FAQs to allow for consistent and clear guidance for sharing of producer data	2022-2023 Update: NRCS will develop, with DEP collaboration, a new Customer Record Request Form to ensure lawful release of records and provide clear guidance to producers and public/private/non profit entities related to information protected under Section 1619 of the Farm Bill. This new form will allow for	NRCS, DEP	Statewide	May 2022		2022 Update: NRCS Customer Record F been developed. 2023 Update: NRCS Customer Record F milestone is complete.

Progress to Date (2020 – 2021 - 2022) And	Milestone Adjustments (2024 – 2025)
Progress Updates HIGHLIGHTED)	

P data whenever possible as ACAP field staff ting farms across the state.	
for annual reports is under development.	
for annual reports is deployed and a pilot test nber of permittees is on-going.	
on PK enhancement is complete. Additional used training modules were developed for provide direction regarding BMP verification eria for those entities.	
odules continue to be used and the expanded to the DEP Growing Greener and ct Modules.	
d Request form and accompanying FAQs have	2024-2025: This milestone was completed in 2022.
d Request form continued to be used. This	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	(2023 Pr
2.4.1F	Ensure adequate tracking of partner- implemented forestry BMPs including forest buffers, tree canopy, conservation landscaping, urban forest expansion, stream wetland restoration	data to be shared with local and state agencies, as the information will be provided to the producer from NRCS, and the producer will be responsible for the release of information to other partners. It also clearly outlines that the release of information is not a condition of USDA program participation. Develop mechanism to capture partner reported and privately funded buffers and other BMPs, with appropriate QA/QC processes, enabling those BMPs to be properly credited. 2022-2023 Update: DEP and DCNR Bureau of Recreation and Conservation are developing crosswalk lists, training, and enhancements for reporting priority BMPs that are implemented as part of their grant programs, like	DEP, DCNR, PDA, SCC, EPA, PACD, NGOs, Farm Organizations, NRCS, PSU	Pa Bay-wide	Ongoing	QA/QC of partner data, system access, etc.			2020 Update: DCNR Forestry entered 2020 and they were rep Chesapeake Bay Founda Initiative reported their submitted to EPA. DEP is working with DCI Practice Keeper. FieldDoc, in partnership in October 2020 to capt Commonwealth cost ship NFWF BMPs are going to DCNR's TreeVitalize pro 2015 – 2019 for 2020 Pr 2021 Update: DCNR Forestry Program 2017 – 2021 and these 2021 Progress to EPA.

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
ed BMPs into Practice Keeper from 2017 – eported as part of 2020 Progress to EPA.	
idation's (CBF) Keystone 10 Million Trees eir tree plantings from 2018 – 2020 and was	
CNR Recreation to report their BMPs in	
nip with Chesapeake Commons, was launched pture BMPs that are not part of a share or regulatory program.	
g to reported through FieldDoc.	
rogram submitted tree planting BMPs from Progress.	
m entered BMPs into Practice Keeper from e BMPs were reported as part of 2020 and	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	(2023 Pro
		parks rehabilitation projects (e.g. green infrastructure, tree planting, and forest buffers).							DCNR's TreeVitalize pro 2015 – 2019 were repor Forestry and TreeVitaliz PracticeKeeper. DEP's DEP and DCNR co to set up a PracticeKeep internal data collection include spatial parcel da DCNR is the reviewing e exporting CBF data from
									report historic data to D forward CBF will utilize reporting. As part of DCNR's Clima working with DEP to rep Recreation agreed to "p and Lancaster County.
									grant close out form to For FieldDoc, Chesapeal they can input non-cost counties. EPA's CBPO 20 Pilot and Tier 2 counties CAP goals.
									NFWF BMPs were repor 2020 progress.
									2022 Update: DCNR Forestry Program were reported for 2022
									DCNR's TreeVitalize exp report next year for 202 through PracticeKeeper
									DCNR's lawn conversior PracticeKeeper. DCNR is forest buffers beyond P
									Scheduled for 2023: As DCNR Recreation is wor

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED) Milestone Adjustments (2024 – 2025)

program submitted tree planting BMPs from ported as part of 2020 Progress to EPA. DCNR alize will continue to report their BMPs to

collaborated with Chesapeake Bay Foundation eeper Partner BMP Module. CBF updated their on process and requirements to accurately data that they are going enter PracticeKeeper. g entity and will be QA/QC the data and om Practice Keeper to submit to DEP. CBF will o DCNR in a spreadsheet form, but moving the PracticeKeeper for all of their future

mate Resiliency initiative, DCNR Recreation is report their BMPs in PracticeKeeper. DCNR "pilot" PracticeKeeper to report BMPs for York 7. DCNR Recreation is going to update their to include reporting BMPs.

eake Commons added the Tier 2 counties so ost share/regulatory BMPs along with the Pilot 2020 Progress metrics will be added for the ies in FieldDoc to compare with the county

ported through FieldDoc to EPA's CBPO for

m entered BMPs into Practice Keeper and 22 Progress to EPA.

experienced some reporting challenges and will 023 Progress that will include 2022 BMPs per.

on program has not yet been integrated into is exploring alternative methods for reporting PracticeKeeper.

Scheduled for 2023: As part of DCNR's Climate Resiliency initiative, DCNR Recreation is working with DEP to report their BMPs in

A	Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
			2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

							PracticeKeeper. DCNR F to report BMPs for York going to update their gr BMPs. For FieldDoc, Chesapeak counties so they can inp with the Pilot and Tier 2 metrics were added for
							CAP goals. Chesapeake GeoDecisions to create Warehouse. NFWF BMPs were repor
							2022 progress. 2023 Update: DCNR's TreeVitalize (nor and has successfully rep data was reported to DE
							FieldDoc, in partnership that are not part of a Co program.
							Relevant BMPs from MS NFWF BMPs are reported
							All programs identified h Pennsylvania's NPS Qua
2.4.2F	Celebrate successful implementation and maintenance of forestry BMPs through	Generate broad understanding and acceptance of watershed restoration efforts and how they	All agencies and partners.	Pa Bay-wide	Ongoing	Report generation, digestible messaging, continual messaging, etc.	2020 Update: DCNR included forest bu monthly e-newsletter, <i>T</i> through the USFS Shared committing to the Bay Fe
	reporting successful efforts.	improve quality of life in PA communities through reporting					Teddi Stark received the which will be given annu Summit.
		successful efforts, resulting in a					The Buffer Vocational Tr Institute was a part of th



R Recreation agreed to "pilot" PracticeKeeper rk and Lancaster County. DCNR Recreation is grant close out form to include reporting	
eake Commons added the Tier 3 and 4 nput non-cost share/regulatory BMPs along 2 counties. EPA's CBPO 2021 Progress or all counties to compare with the county se Commons is working with DEP and e an automated reporting process to Data	
orted through FieldDoc to EPA's CBPO for	
now UCF) program has improved their tracking eported BMPs tracked via TreeKeeper. The DEP, and the data was provided to EPA.	
ip with Chesapeake Commons, captures BMPs Commonwealth cost-share or regulatory	
MS4s are also reported through NEIEN.	
rted through FieldDoc.	
d here are also listed with more information in uality Assurance Project Plan (QAPP).	
buffers and lawn conversion practices in its , <i>The Resourc</i> e, and celebrated forestry BMPs red Stewardship agreement signing v Forest Restoration Strategy.	
he 1st Annual Watershed Leadership Award nually during the Riparian Forest Buffer	
Training at Huntingdon State Correctional the Correctional Conservation Collaborative	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
		greater appetite for forestry and all BMPs. Broader acceptance and appetite for these BMPs will make outreach and implementation less time-intensive, less expensive processes.							 and received a Governor's Environmental Excellence Award in 2020, as well as local news coverage. 2021 Update: David Wise of Stroud Water Research Center received the 2nd Annual Watershed Leadership Award, which was presented at PA's Virtual 2021 Buffer Summit. DCNR continued to share success stories via social media and resource newsletters, as they were available. DCNR invited executive and legal staff who work on our many agreements to a partner planting to celebrate progress on buffers internally. CCLC is making October 2021 "buffers month", and hosting and sponsoring outreach and events around riparian forest buffers. 2022 Update: Greg Wilson of Donegal TU was posthumously awarded the Watershed Forestry Leadership Award at the 2022 Watershed Forestry Summit (formerly Riparian Forest Buffer Summit). In May 2022, PA DEP, PA DCNR, PDA, and members of the Chesapeake Bay Commission attended a celebratory buffer planting in Lancaster, PA. 2023 Update: Ryan Davis was awarded the Watershed Forestry Leadership Award at the 2022 Watershed Forestry Summit. DCNR will be celebrating a ~300 acre buffer planting at the new Big Elk State Park in early 2024, around Earth Day. 	
2.4.15	Collect Municipal Separate Storm Sewer System (MS4) BMP data using the new reporting systems for electronic submission for annual reports and inspections	Implement use of MS4 e-Inspection application. Complete e- reporting system for annual reports by December 2022	DEP, MS4s	Statewide	Begin 2019				 2020 Update: DEP is initiating a new project to develop a web-based system for MS4 annual reports to collect BMP data. DEP is utilizing an electronic system for recording MS4 inspections ("eInspection"). 2021 Update: The development of an electronic reporting system for MS4 Annual reports is underway. It is anticipated that this system will begin to be implemented for reporting year 2022. 	

Action	# Description	Performance Target(s) and 2024-2025 Updates	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and	Resources <u>Needed</u> Technical and	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)
		2024-2025 opdates				Recommendations	Financial	Financial	(2025 Progress opulies maniformed)

				2022 Update : The development of the eReporting application for MS4 Annual Status Reports is complete and a small number of MS4s were asked to beta test the system this year. A few bugs were discovered and as a result, it is likely that next year will continue to be considered a testing period.
				2023 Update: Pilot testing of the MS4 Annual Reporting Systems continues with over 50 MS4s participating this year. Based on the results of the testing period, DEP will decide if use of the eReporting system will be mandated for all MS4s next year.
2.4.25	Initiate and collect stormwater BMP data from other DEP programs implementing provisions of the Chapter 102 regulations, to include required post- construction stormwater	Statewide	Begin 2020	2020 Update: DEP is anticipating the launch of the Chapter 102 ePermit system on January 25, 2021, to allow the regulated community to submit Notices of Intent (NOIs) electronically for PAG-02 NPDES General Permit coverage for stormwater discharges associated with construction activities. The ePermit system will be built in phases, in which new and amendment PAG-02 NOIs will be released first, followed by individual NPDES permit applications and then erosion and sediment control (E&S) permit applications. Use of Chapter 102 ePermit will be voluntary at first, but is expected to be required in the future. The system represents a significant step forward in DEP's ability to collect information on earth disturbance activities and BMPs across Pennsylvania.
	management.			2021 Update: The Chapter 102 ePermit system is available for voluntary use for:1. New NOIs and amendments for the PAG-02 General NPDESPermit (released January 25, 2021);2. New applications and amendments for Individual NPDES Permitsfor Stormwater Discharges Associated with Construction Activities(released April 21, 2021); and3. New applications and amendments for Erosion and SedimentPollution Control (E&S) Permits for Discharge of StormwaterAssociated with Construction Activities (released August 4, 2021).
				System availability for New NOIs for the Erosion and Sediment Control General Permit (ESCGP-3) for earth disturbance associated with Oil and Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilitates is tentatively planned for release on December 8, 2021. The ePermit system records anticipated PCSM BMPs for earth disturbance projects.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Action #	Description	Performance Target(s) and 2024-2025 Updates	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
									2022 Update: DEP's IT staff continue to make needed improvements to ePermit. Currently about 3-5% of Chapter 102 NPDES applications/NOIs are being submitted through ePermit.	
									2023 Update: Chapter 102 ePermit use continues to be voluntary due to a number of issues that must be corrected before we require its use. DEP is also seeking to update PracticeKeeper software to include Chapter 102 inspections; PCSM BMPs will be part of the planned data collection.	
	Continue to track MS4 PRP submission, review, and approval.	Internal report is updated and maintained on a quarterly basis and provided to regional staff as well as DEP executive team	DEP Bureau of Clean Water		Ongoing				 2020 Update: DEP's Bureau of Clean Water continues to track MS4 PRPs. Here are the numbers: 1. Percentage of PRPs reviewed of those received: 100% (178 total, there are multiple joint PRPs that include about 250 MS4s) 2. Percentage approved of those reviewed: 87% (155 of 178) 3. Total PRPs not received: 8 4. Total PRPs not yet approved: 31 Note this is being tracked in terms of PRPs instead of MS4s, since there are multiple joint PRPs that involve many jurisdictions. The York County PRP includes more than 40 MS4 which will be approved shortly. 	
									2021 Update: There are 345 small regulated MS4s in the Chesapeake Bay watershed (not including PennDOT and PA Turnpike Commission). Of these, 79 have waivers. Of the remaining 266 with permit coverage, 84% have approved PRPs.	
									2022 Update: DEP continues to make progress on completing PRP reviews and approval. Approximately 10% of permittees in the Chesapeake Bay Watershed do not yet have approved PRPs.	
									2023 Update: The majority of the MS4s in Chesapeake Bay Watershed have approved PRPs and are implementing their plans. DEP continued to work with the few remaining permittees that do not yet have approved PRPs.	
	Review and approve PennDOT's and	PRPs are expected to be received by	DEP	Chesapeake Bay Watershed	Summer 2023	The PRPs are expected to be large and complex			2022 Update: This is a new milestone for 2022-2023.	

escription Performance Target(s)	Party(jes) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources Needed	Progress to Date (2020 – 2021 - 2022)	Milestone Adjustments
and 2024-2025 Upo	Partnerships ates			Challenges or Recommendations	Technical and	Technical and	And (2023 Progress Updates HIGHLIGHTED)	<mark>(2024 – 2025)</mark>
					Financial	Financial	, , , , , , ,	

	PA Turnpike Commission's PRPs	DEP in October 2022.				but are expected to result in significant pollutant load reductions.		PennDOT's and PTC's PR 2022, respectively. The Office. Central Office wil where collaborative BMI proposed. 2023 Update: DEP reviewed and provid PRPs. PennDOT and PTC comments. It is anticipat will be submitted to DEP
2.4.1W	Explore the feasibility of developing a GIS based online monitoring and reporting program that municipalities can use to report on-lot system operation and maintenance.		DEP					 2020 Update: Project has been scoped available to support the developed and impleme 2021 Update: State funds have been m Fund. Project is in the im Technology. 2022 Update DEP Bureau of Informati determine previous proj the rescoped project exc currently on hold. 2023 Update: State funds have been a The work has not yet state being considered to detere forward.
Section 3	. Countywide Acti	ons						
3.4.1	Track and report progress in Phase 3 WIP planning and implementation in all counties.	Development of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins July 2019 Phase 2 Begins Feb 2020	State staffing support Internal and External Coordination		2020 Update: Pilot counties submitted Countywide Action Plan progress templates with submitted their Draft Pla finalizing their CAPs. Tier progress report in 2021. 2021 Update:

PRPs were received on October 27 and 31, ne PRPs will be reviewed by DEP Central will coordinate with the DEP regional offices MP projects with municipal permittees are	
ovided comments on PennDOT and PTC's draft TC are in the process of addressing DEP's pated that final PRPs from PennDOT and PTC DEP at the end of 2023.	
ed with the help of DEP IT. Until funds are he development, the system cannot be further mented.	
n made available through the Clean Water intake queue for DEP Bureau of Information	
ation Technology re-evaluated project and roject cost provide to BCW was unrealistic so exceeds the project funding so project is	
n approved for the initial phase of the project. started. Prioritization of all IT projects are etermine how quickly this project can move	
ted annual progress templates to DEP for their an in October. DEP met and discussed ith each of the pilot counties. Tier 2 counties Plans in October and are in the final stages of Fier 2 counties will submit their first annual 21.	

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

	Pilot counties submitted annual progress reports and 2022-23 CAP milestone updates to DEP for their Countywide Action Plans in September. DEP met and discussed progress templates and milestones with each of the pilot counties.
	Tier 2 counties submitted annual progress reports to DEP for their Countywide Action Plans in September. DEP met and discussed progress templates with each of the Tier 2 counties.
	All Tier 3 and 4 counties competed and submitted their CAPs to DEP in September 2021. DEP met and discussed CAP initiatives with each of the Tier 3 and 4 counties. DEP also conducted a "Transition to Implementation" webinar in December for the Tier 3 and 4 counties.
	County annual progress and two-year milestone updates are published to the <u>DEP Countywide Action Plans</u> website.
	2022 Update: Tier 2 counties submitted annual progress reports and 2022-23 CAP milestone updates to DEP for their Countywide Action Plans in September. DEP met and discussed progress templates and milestones with each of the Tier 2 counties.
	Pilot and Tier 3&4 counties submitted annual progress reports to DEP for their Countywide Action Plans in September. DEP met and discussed progress templates with each of the Pilot and Tier 3&4 counties.
	County annual progress and two-year milestone updates are published to the <u>DEP Countywide Action Plans</u> website.
	2023 Update: Pilot and Tier 3&4 counties submitted annual progress reports and 2022-23 CAP milestone updates to DEP for their Countywide Action Plans in October. DEP met and discussed progress templates and milestones with each of the counties.
	Tier 2 counties submitted annual progress reports to DEP for their Countywide Action Plans in October. DEP met and discussed progress templates with each of the counties.
	County annual progress and two-year milestone updates are published to the <u>DEP Countywide Action Plans</u> website.



Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterampa			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

3.4.1(i)	DEP staff will conduct a full	 DEP	34 CAP Counties	March 2022		2022 Update: This is a new milestone f
	review of each		counties	2022		This is a new milestone i
	<mark>county CAP and</mark>					Tier 2 counties submitte
	<mark>develop a CAP</mark>					milestone updates to DE
	Highlights and					September. DEP met an
	Trends summary of findings.					milestones with each of
	DEP staff will					Pilot and Tier 3&4 count
	coordinate					DEP for their Countywid
	efforts between					discussed progress temp
	<mark>county CAP</mark>					counties.
	partners and					County annual progress
	<mark>state program</mark>					published to the DEP Co
	<mark>action leaders to</mark> identify key					
	focus areas that					2023 Update:
	are creating					Pilot and Tier 3&4 count
	barriers for					2022-23 CAP milestone
	progress and					Plans in October. DEP m milestones with each of
	work together in					milestones with each of
	2024 to identify strategies for					Tier 2 counties submitte
	success in					Countywide Action Plans
	overcoming					progress templates with
	these identified					County annual progress
	<mark>issues.</mark>					published to the DEP Co
						In October, a Clean Wate
						partners and state progr areas that are creating b
						2024 to identify strategi
						identified issues.
3.4.1(ii)	Create a Healthy	DEP	Chesapeake	September		2022 Update:
.,	, Communities,		Bay	2022		This is a new milestone f
	Healthy Waters		Watershed			
	annual report					The 2021 Healthy Water
	highlighting PA's					be found on <u>PA's Plan</u> w
	progress and					
	sharing county-					

Progress to Date (2020 – 2021 - 2022) And rogress Updates HIGHLIGHTED)

Milestone Adjustments (2024 – 2025)

e for 2022-2023.

ted annual progress reports and 2022-23 CAP DEP for their Countywide Action Plans in and discussed progress templates and of the Tier 2 counties.

Inties submitted annual progress reports to vide Action Plans in September. DEP met and mplates with each of the Pilot and Tier 3&4

ss and two-year milestone updates are <u>Countywide Action Plans</u> website.

Inties submitted annual progress reports and le updates to DEP for their Countywide Action met and discussed progress templates and of the counties.

tted annual progress reports to DEP for their ans in October. DEP met and discussed ith each of the counties.

ss and two-year milestone updates are <u>Countywide Action Plans</u> website.

ater Gathering was held between county CAP ogram action leaders to identify key focus g barriers for progress and work together in egies for success in overcoming these

e for 2022-2023.

ters Healthy Communities Annual Report can website.

2024-25: DEP staff will coordinate efforts between county CAP partners and state program action leaders, focusing on three key areas that are creating barriers for progress, and will work together in 2024 to identify strategies for success in overcoming these identified issues.

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	(
		and 2024-2025 Updates	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	<mark>(2023 Pro</mark>

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
	based success stories.								2023 Update: The 2022 Healthy Waters Healthy Communities Annual Report can be found on <u>PA's Plan</u> website.	
3.4.2	Update reductions in the County Planning Progress template upon completion of each county plan.	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed. 2022-2023 Update: DEP will continue to contract with SRBC to assist in updated Tier 2 CAST runs, updating County CAP Toolboxes, and working on Acid Mine Drainage (AMD) initiatives.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins January 2020	State staffing support Internal and External Coordination			 2020 Update: Tier 2 counties are in final stages of finalizing their CAPs. The Phase 3 WIP input file will be updated in 2021 to represent the Tier 2 CAPs. 2021 Update: DEP and SRBC have worked closely to assist Pilot and Tier 3 and 4 counties with CAST scenarios. To facilitate this process, DEP and SRBC collaborated on the following: 1. Create a standardized and user-friendly BMP Template with directions, BMP crosswalk and definitions and for counties plan their BMPs numeric goals. DEP/SRBC provided training and answered questions about the BMP Template. 2. When counties submitted their BMP Template, SRBC created CAST scenarios and shared results in pie charts and tables via PowerPoint to be reviewed by DEP. SRBC and DEP discussed the CAST scenario results before presenting to each county. 3. DEP/SRBC collaborated to present the CAST results, use the Toolbox to highlight areas of opportunity, and answer technical questions. 4. DEP/SRBC presented the difference between CAST17 and CAST19 to each Tier 1 county and answer technical questions. 5. DEP/SRBC worked together to investigate and find solutions to issues concerning wastewater and excess in the CAST19 model. 6. SRBC is on track to complete Pilot and Tier 3 and 4 Snapshots and Implementation Toolboxes. 7. SRBC provided a comprehensive QA/QC document for their contracted work for DEP. DEP did a QA/QC analysis of SRBC's Franklin County CAST Scenario 2022 Update: DEP and SRBC have worked closely to assist Tier 2 counties with CAST scenarios. To facilitate this process, DEP and SRBC collaborated on the following: 1. Create a standardized and user-friendly BMP Template with directions, BMP crosswalk and definitions and for counties plan their BMPs numeric goals. DEP/SRBC provided training and answered questions about the BMP Template. 2. When counties submitted their BMP Template. 2. When counties submitted their BMP Template. 3.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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						PowerPoint to be reviewed by DEP. SRBC and DEP discussed the
						CAST scenario results before presenting to each county.
						3. DEP/SRBC collaborated to present the CAST results, use the
						Toolbox to highlight areas of opportunity, and answer technical
						questions.
						4. DEP/SRBC presented the difference between Tier 2 2020 CAST
						county runs and answer technical questions.
						5. DEP/SRBC worked together to investigate and find solutions to
						issues concerning excess in the CAST19 model.
						6. SRBC completed Tier 2 Snapshots and Implementation
						Toolboxes.
						7. SRBC provided a comprehensive QA/QC document for their
						contracted work for DEP.
						8. SRBC assisted with Technical Updates involving CAST scenarios
						to the WIP3 Amendment in regard to Climate Change and Non-
						reporting programs. SRBC created procedures for these updates
						and participated on WIP3 evaluation calls with EPA CBPO.
						2023 Update:
						DEP and SRBC have worked closely to assist Pilot and Tier 3 and 4
						counties with CAST scenarios. To facilitate this process, DEP and
						SRBC collaborated on the following:
						DEP/SRBC collaborated to present data from CAST showing the
						BMP implementation rates from 2019 and 2022 along with the
						proposed CAP BMPs
						Utilized a standardized and user-friendly BMP Template with
						directions, BMP crosswalk and definitions and for counties to plan
						their BMPs numeric goals. DEP/SRBC provided training and
						answered questions about the BMP Template.
						When counties submitted their BMP Template, SRBC created CAST
						scenarios and shared results in pie charts and tables with DEP.
						SRBC is on track to complete Pilot and Tier 3 and 4 Snapshots.
						SRBC provided a comprehensive QA/QC document for their
						contracted work for DEP.
	- · ·					SRBC assisted with Technical review of CAST23.
3.4.3	Track and report	Completion of	DEP, Local planning All Counties in			2020 Update:
	progress to	Countywide Action	leaders, External CBWS	staffing		Conservation Districts continue to use the PracticeKeeper system,
	continue	Plans (CAPs) in all	Coordinators	support		as required by their Nutrient/Manure Management and Bay
	implementation	counties in				

Action #	Description	Performance Target(s) and	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	65
		2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

	of the Phase 3 WIP State Numeric Commitments described in Section 4, State Actions in the counties with minimal reductions.	Pennsylvania's Chesapeake Bay Watershed.			Internal and External Coordinati on		Technician agreements. program for stormwater DCNR Recreation is work MS4 land through Practi 2021 Update: See above for CAP updatPracticeKeeper data coll County Conservation Dis Partner (non-CCD) BMP 2022 Update: See above for CAP updatDEP staff are working wid PracticeKeeper to the need For 2022 Progress, DEP of Turnpike Commission, to stormwater BMPs for 2000DEP staff will continue to stormwater BMPs on no 2023 Update: See above for CAP updatDEP staff are working wid PracticeKeeper to the need Turnpike Commission, to stormwater BMPs on no 2023 Update: See above for CAP updatDEP staff are working wid PracticeKeeper to the need Stormwater BMPs on no 2023 Update: See above for CAP updatDEP staff are working wid PracticeKeeper to the need For 2023 Progress, DEP of Decign Group (LDG) to provide the need For 2023 Progress, DEP of Decign Group (LDG) to provide the need of the ne
							For 2023 Progress, DEP v Design Group (LDG), to r remote-sensing methode DEP staff continued to w on non-MS4 land throug
3.4.4	Amend the Phase 3 WIP to incorporate the additional CAPs that are	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's	DEP	Phase 1: Tier 2 Counties Phase 2: Tier 3 and 4 Counties	Phase 1: December 2020 Phase 2:	State staffing support	2020 Update: Phase 1 CAPs are completed 2021 Update: Phase 1 and Phase 2 CAP Countywide Action Plans

Progress to Date	
(2020 - 2021 - 2022)	
And	
Progress Updates HIGHLIGHTED)	

ts. PennDOT was added as a new reporting ter BMPs for 2020 progress. orking to report stormwater BMPs on non- octiceKeeper.	
dates.	
collection is improving with expanded use by Districts with improved functionality including IP Submission capability.	
dates.	
with GeoDecisions to transfer data from new Data Warehouse	
P worked with a new data reporter, the PA , to report their historic and current 2022 Progress.	
e to work with DCNR Recreation to report non-MS4 land through PracticeKeeper.	
dates.	
with GeoDecisions to transfer data from new Data Warehouse.	
P worked with a new data reporter, Larson o report BMPs captured with non-intrusive odology.	
o work with DCNR to report stormwater BMPs bugh PracticeKeeper.	
ipleted.	2024-2025: This milestone was completed in 2022.
CAPs are completed and published to the <u>DEP</u> ans website.	

Action #	Description	Performance Target(s) and	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	(2
		2024-2025 Updates	Partnersmps			Recommendations	Technical and Financial	Technical and Financial	(2023 Prog

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
	developed (Phase 1 and 2)	Chesapeake Bay Watershed			December 2021	Internal and External Coordination			Pennsylvania's Phase 3 WIP Amendment was submitted to EPA by December 31, 2021 and published to the <u>DEP Pennsylvania's Plan</u> website. 2022 Update: EPA provided the evaluation of the draft amended Phase 3 WIP on April 18, 2022. DEP resubmitted the final amended Phase 3 WIP by the EPA deadline of July 18, 2022. EPA published their final evaluation on November 21, 2022. Pennsylvania's final amended Phase 3 WIP is published to the DEP website. <u>PA's Plan</u>	
Priority	Initiativo 5. C	omplianco							 2023 Update: No update to this milestone. This milestone is complete. 	
•	Initiative 5: C	•	tive Commitmente							
2.5.1	Pass the	grammatic and Narra	live commitments		2019-2020				2020 Update:	<mark>2024-2025:</mark>
	Fertilizer Bill to achieve the identified nutrient reductions on urban and				Legislative Session				Fertilizer Bill was not passed in the 2019-2020 Legislative Session. 2021 Update: Fertilizer Bill is being discussed in the 2020-2021 Legislative Session. 2022 Update:	This milestone was completed in 2023.
	agriculture lands.								The fertilizer bill was approved by the PA House and Senate. 2023 Update: The fertilizer bill was passed and signed into law.	
2.5.2	Review, consider and potentially incorporate a revised Phosphorus Index into the planning requirements for land application of biosolids.	Incorporate revised P index tool into future nutrient management planning efforts where approved for use	SCC, Penn State, DEP, NRCS	Statewide	July 2020				 2020 Update: DEP is on track and currently developing draft permits to reissue for the beneficial use of sewage sludge, PAG-07, PAG-08, and PAG-09. One of the items for consideration is incorporation of the management of sewage sludge with the consideration of the total phosphorus content of the sewage sludge. No decisions have been made on what will or will not be in these draft permits to date. 2021 Update: P-Index Version 3 is still in development and testing, hopefully to be released in early 2022. DEP is doing outreach on the changes to the general permits that authorize land application of biosolids which include the incorporation of the -index to the biosolids management requirements. DEP is coming up against significant 	

Action # Description Perform Targe an 2024-2025	(s) Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)
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							2022 Update: DEP has developed pre- of sewage sludge (AKA I the Agricultural Advisor Committee, as well as a presented the proposed and gathered feedback. Legislative Budget Finar methods for permit hol to General Permit PAG- Permit PAG-09 called fo Bay Watershed Implem permits. 2023 Update:
2.5.3	Develop State Agency nutrient reduction planning goals and the associated Action Plans for meeting those planning goals for the installation of practices on lands owned and maintained by state agencies.	Completed State Agency Action Plans for the reduction of nutrients on lands owned and operated by state agencies	DEP, DCNR, Other Agencies responsible for the management of state lands, Governor's Office	Watershed- wide	January 2021		Work continued in 20232020 Update:The Pennsylvania Fish a with DCNR's Bureau of buffer implementation parcels owned by PFBC, of buffer planting. Thes April 2021. If all goes we into additional parcels o riparian forest buffer im2021 Update:The partnership plantin PAFBC is working with F plantings in 2022.DCNR is also exploring o implementation on DCN and state forest offices.2022 Update:PFBC again partnered w buffer along the Yellow PFBC's Camp Hill Access2023 Update: PA DCNR is working wit plant ~300 acres of Ripa project will be implemented



e-draft General Permits for the beneficial use A biosolids). These permits were shared with ory Board, the Water Resource Advisory a separate DEP stakeholder workgroup. DEP ed changes to the various stakeholder groups kk. The PA legislature has directed the ance Committee to "study the costs and olders to comply with the proposed revisions G-07, General Permit PAG-08 and General for under Pennsylvania's Phase 3 Chesapeake mentation Plan." DEP continues work on these

23.

and Boat Commission (PFBC) is partnering f Forestry to conduct a pilot riparian forest n project along the Juniata River on four C, which will total approximately eight acres ese plantings are scheduled to take place in well with these pilot plantings, PFBC will look s owned by the Commission for potential implementation.

ings with PAFBC took place in April 2021, and PA DCNR to identify additional locations for

g options for Lawn Conversion project CNR-controlled lands, such as at state park s.

with DCNR to plant 1.5 acres of streamside w Breeches Creek, Cumberland County on the ss property.

vith the Alliance for the Chesapeake Bay to parian Forest Buffer at Big Elk State Park. This nented in 2024.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Fartherships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

Progress to Date
(2020 - 2021 - 2022)
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oaress Updates HIGHLIGHTEL

PAG-12 General Permit was issued by DEP on uiring the submission of NOIs to remain 2. DEP has submitted an end of year CMS ue to provide CAFO permit and compliance ended the Agricultural Advisory Board (AAB) ney deliberate areas for streamlining the

d reporting process. DEP will work with the ensure that there is transparent and ations regarding the PAG-12 and it remains on

P's proposed draft PAG-12 general permit and B meetings. EPA proposed additional 12, including provisions related to the L and identification of additional BMPs to reded. The public comment period for the n October 31, 2022. Four sets of comments cluded two requests by industry organizations provide sufficient time to vet new to TMDL consistency. DEP published the <u>PAG-</u> mber 17, 2022.

AG-12 General Permit on September 16, 2023 it will become effective on January 1, 2024. o approximately 380 existing PAG-12 them that they must submit a renewal NOI by n accordance with EPA's request, DEP implementing a Reasonable Potential for use in helping to determine eligibility for are in a watershed that is impaired for . DEP provided training to permitting and rding the reissued PAG-12 and provided the DEP Agriculture Advisory Board.

complete this activity on an ongoing basis.

Action #	Description	Performance Target(s)	Responsible Party(jes) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
						1	Financial	Financial	

			1					
	follow-up for CAFO and non- CAFO facilities						[2021 Update: DEP's regional offices co 2022 Update: DEP's regional offices co
								2023 Update: DEP's regional offices cc
2.5.3A	Implement Chesapeake Bay Agriculture Inspection Program, Phase 1, with an emphasis on meeting state planning requirement on non-CAFO operations.	Inspect 10% of the agricultural acreage annually. More information can be found in our Standard Operating Procedure published on DEP's website. Additionally, progress is reported to EPA every 6 months per the Chesapeake Bay Regulatory and Accountability Program grant.	DEP, CDs	Chesapeake Bay	Ongoing			2020 Update: Chesapeake Bay Ag Insp Procedure was updated Inspection Summary has Ag Compliance website. 2021 Update: Chesapeake Bay Ag Insp 001) Standard Operating 2020-2021 Agriculture A to the DEP website in De 2022 Update: The CBAIP Phase 1 SOP a and published on the DE Agriculture Annual Inspe website in Fall 2022, wit 2023 Update: The CBAIP SOP was revis August 2023. The 2022-2 Summary was published
2.5.4A	Implement Chesapeake Bay Agriculture Inspection Program, Phase 2 Pilot, with an emphasis on meeting both state planning and implementation	2022-2023 Update: The CBAIP Phase 2 program will continue to be expanded as more counties complete their Phase 1 inspections.	DEP, SCC, CDs, NRCS, Private Consultants	Chesapeake Bay	Beginning July 2020	Available funding for Technical Assistance and construction of BMPs remains a concern.	() () () () () () () () () () () () () (2020 Update: Chesapeake Bay Ag Insp Operating Procedure wa 2 Inspection Program Fu Environmental Stewards been/will be conducted by the conservation dist Southcentral Regional O 2021 Update:

Progress to Date
(2020 - 2021 - 2022)
And
Progress Updates HIGHLIGHTED)

complete this activity on an ongoing basis.	
complete this activity on an ongoing basis.	
complete this activity on an ongoing basis.	
spection Program (CBAIP) Standard Operating ed in May 2020. The 2019-2020 Annual nas been developed and published to the DEP te.	
spection Program (CBAIP) Phase 1 (CBO-INSP- ing Procedure was updated in May 2021. The <u>e Annual Inspections Summary</u> was published December 2021.	
P and the CBAIP Phase 2 SOP were merged DEP website in May 2022. The <u>2021-2022</u> spections Summary was published to the DEP with a <u>press release</u> announcement as well.	
evised and published to the DEP website in <u>2-2023 Agriculture Annual Inspections</u> led to the DEP website in Fall 2023.	
spection Program – Phase 2 Standard was finalized June 2020 along with the Phase Funding Guidelines (provided via DEP rdship Funds). Phase 2 Inspections have ed in Lancaster, Chester, and Adams counties istricts, and in York County by the DEP I Office beginning in July 2020.	

Action #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Progress Updates HIGHLIGHTED)
							Financial	Financial	

	requirements on						CBAIP Phase 2 (CBO-IN
	non-CAFO						updated in May 2021.
	operations.						Inspections Summary w
							December 2021.
							2022 Update:
							The CBAIP Phase 1 SOP
							and published on the D
							Agriculture Annual Insp
							website in Fall 2022, wi
							2023 Update:
							The CBAIP SOP was rev
							August 2023. The <u>2022</u>
							Summary was publishe
							In the 2022-2023 repor
							completed by 11 count
2.5.5A	Participate in	2022-2023 Update:	EPA, DEP, SCC,	Chesapeake	Beginning		2021 Update:
	EPA's formal	EPA will conduct a	PDA, CCDs	Bay/Statewid	January		DEP and SCC staff respo
	assessment of Pennsylvania's	follow-up assessment of		е	2022		review of the question
	Animal	Pennsylvania's					2022 Update:
	Agriculture	animal agriculture					EPA provided DEP with
	Programs	programs to the					2021. DEP coordinated
		initial 2015					submitted to EPA, mee
		assessment.					held meetings with DEF
							Northcentral Regions, F
							districts (Lycoming, Sny
							March 2022. EPA cond
							provided by DEP and th
							draft report to DEP on .
							on July 22, 2022, meeti
							report to DEP on Decer
							The final report noted t
							assessment in its effort
							the Chesapeake Bay wa
							responded to the 2015
							towards meeting their
							that impact the pace ar
							Notably, the scale of ag
							assistance, funds, and o
							state's ability to meet 2

NSP-002) Standard Operating Procedure was The <u>2020-2021 Agriculture Annual</u> was published to the DEP website in	
P and the CBAIP Phase 2 SOP were merged DEP website in May 2022. The <u>2021-2022</u> spections Summary was published to the DEP with a <u>press release</u> announcement as well.	
evised and published to the DEP website in 2-2023 Agriculture Annual Inspections ed to the DEP website in Fall 2023. Orting year, 222 Phase 2 Inspections were nties.	
bonded to informal questions and began the nnaire. This is a new milestone for 2022-2023.	
h a questionnaire to complete in December ed the completion of the questionnaire and eting the deadline of February 11, 2022. EPA EP Central Office, DEP Southcentral and PDA and SCC, as well as four conservation hyder, Franklin, and Lancaster) throughout ducted file reviews of CAFOs and CAOs, the conservation districts. EPA provided the n July 8, 2022, and DEP submitted comments ting the EPA deadline. EPA provided the final ember 22, 2022.	
I that "DEP has made progress since the 2015 rts to reduce nutrient and sediment loads in vatershed" and that "Pennsylvania has 5 recommendations and made progress r 2025 goals. However, there are challenges and scale of program implementation. agriculture coupled with the demand for one-on-one support for farmers, impacts the 2025 goals."	

Actio	on #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
			and 2024-2025 Updates	Partnerships			Challenges or Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

2.5.6A	Finalize and commence utilization of the CAFO Compliance Evaluation and Inspection (CEI) Standard Operating Procedure (SOP)	2022-2023 Update: DEP developed the CAFO CEI SOP to ensure consistent and standardized evaluation and tracking of CAFO inspections.	DEP	Chesapeake Bay/Statewid e	July 2022	2023 Update:EPA published the 2022Report on January 4, 20their Conservation AsseOperations (AFOs) in Maand the conservation dis2022 Update:CAFO CEI SOP has beenDEP regional staff. The CEPA.2023 Update:Use of the CAFO CEI SOF
2.5.7A	Publish revision to the Manure Management Manual Technical Guidance Document (TGD).	2022-2023 Update: DEP will seek public comment on the revised Manure Management Manual Technical Guidance Document	DEP	Chesapeake Bay/Statewid e	Draft: December 2022 Final: December 2023	2022 Update: Revisions to the Manure Document are under de published in Spring 20232023 Update: Revisions to the Manure Document were publish to respond to public cor be published in Summer
2.5.8A	Revise and approve five- year Nutrient and Manure Management Delegation Agreement with the conservation districts to include additional Manure Management Required Output Measures (ROMs)	2022-2023 Update: DEP and SCC will revise and update the five-year Nutrient and Manure Management Delegation Agreement to include Manure Management Planning and/or status review metrics for the Manure Management	DEP/SCC	Chesapeake Bay/Statewid e	July 2022	2022 Update: This is a new milestone Delegation agreements meeting and will be in p 2023 Update: This milestone was impl agreements.

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
22 Animal Agriculture Drograms Assessment	
22 Animal Agriculture Programs Assessment 2023. EPA conducted assessments, following sessment Initiative, on four Animal Feeding May 2023. DEP continues to work with EPA district to ensure regulatory compliance.	
en released and is currently being utilized by e CAFO CEI SOP has also been provided to	
OP is ongoing.	
ure Management Manual Technical Guidance development. Draft is scheduled to be 023.	
ure Management Manual Technical Guidance shed as Draft in August 2023. DEP is working comments. The final guidance is scheduled to her 2024.	
ne for 2022-2023. ts were approved at the July 2022 SCC n place from July 1, 2022 June 30, 2027.	2024-2025: This milestone was completed in 2022.
plemented in the new delegation	

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
1. I.						15-2012-0106-01200-000-00020-00100-00100	Financial	Financial	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
		component. This agreement also includes a prioritization of identification of								
		Concentrated Animal Operations (CAOs).								
	Hire 1 Water Program Specialist to support agricultural permitting and compliance activities	2022-2023 Update: Environmental Engineer / Environmental Engineer Specialist will provide additional support and oversight for CAFO permitting and conservation district technical assistance	DEP	Chesapeake Bay/ Statewide	February 2023				 2022 Update: This position is vacant and currently being reclassified and reposted. 2023 Update: The position was reclassified and posted as a Water Program Specialist due to lack of success in filling the position in the Engineer classification. Interview and hiring process will commence in early 2024. 	2024-2025: Updated to reflect change in job classification.
	Hire 2 Water Program Specialists to support agricultural compliance, inspection, and enforcement activities, to include Nutrient and Manure Management, Erosion and Sediment Control for Agriculture, Chesapeake Bay Agricultural Inspection Program (CBAIP) and CAFO	2022-2023 Update: Water Program Specialists will provide additional support and oversight for non- CAFO and CAFO compliance, inspection, and enforcement	DEP	Chesapeake Bay/ Statewide	February 2023				 2022 Update: One water program specialist is hired and supporting agriculture compliance, inspection and enforcement activities. One position is currently vacant. Selection is in-process as of December 2022. 2023 Update: The second Water Program Specialist was hired in February 2023. 	
.5.11A	Program Hire 1 Water Quality Specialist	2022-2023 Update: The Northeast	DEP	Northeast Counties	December 2023				2022 Update: This is a new milestone for 2022-2023.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
2.5.12A	(WQS) to conduct inspections on CAFO and non- CAFO agricultural operations Nutrient	Regional Office will hire a Water Quality Specialist to conduct CAFO and non-CAFO inspections 2022-2023 Update:	DEP	Chesapeake	Ongoing				Communication with the Regional Office is ongoing. 2023 Update: Communication with the Regional Office and efforts to secure a position is ongoing. 2022 Update:	2024-2025:
2.3.12A	Nutrient Management Implementation – during compliance inspections, DEP staff will continue to promote the benefits of implementation of Nutrient and Manure Management Plans, which include planned rates for land application of manure and nutrients, manure application setbacks and buffers, and generally include animal waste management systems (AWMS), animal concentration area management and barnyard runoff controls, pasture management, etc. DEP staff	2022-2023 Opdate: DEP Water Quality Specialists conduct inspections on CAFO and non- CAFO agricultural operations. All agricultural operations that land apply manure, regardless of animal type, are regulated under 25 Pa. Code §91.36		chesapeake Bay/Statewid e	Ungoing through December 2025				DEP's regional offices complete this activity on an ongoing basis.	2024-2025: Updated milestone to be ongoing through December 2025.

Action #	Description	Performance Target(s)	Responsible Party(jęs) and	Geographic Location	Expected Timeline	Potential Implementation	Resources <u>Available</u>	Resources <u>Needed</u>	
		and	Partnerships			Challenges or			
		2024-2025 Updates				Recommendations	Technical and	Technical and	(2023 Pro
							Financial	Financial	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(j <u>es</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And <mark>(2023 Progress Updates HIGHLIGHTED</mark>)	Milestone Adjustments (2024 – 2025)
2.5.13A	will provide contact information, as needed, for certified Nutrient Management Plan specialists Erosion and Sediment Control - during compliance inspections, DEP staff will continue to promote the benefits of implementation of erosion and sediment control plans, which generally include conservation tillage and/or no- till practices, cover crop, contour farming, strip cropping, field borders, terraces, diversions, grassed/natural/ rock-lined waterways, barnyard runoff controls and animal heavy use	2022-2023 Update: DEP Water Quality Specialists conduct inspections on CAFO and non- CAFO agricultural operations. All agricultural operations with plowable/tillable land or animal heavy use areas (AHUAs) are regulated under 25 Pa. Code §102.4(a).	DEP	Chesapeake Bay/ Statewide	Ongoing through December 2025		Financial	Financial	2022 Update: DEP's regional offices complete this activity on an ongoing basis. 2023 Update: DEP's regional offices complete this activity on an ongoing basis.	2024-2025: Updated milestone to be ongoing through December 2025.
	area (AHUA) protection, etc. DEP staff will provide contact information, as needed, for local conservation district or private									

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Partiterships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

	consultant technical assistance.						
2.5.15	Complete the Pollutant Reduction or Total Maximum Daily Load Plan Reviews for the 2018 Municipal Separate Storm Sewer System (MS4) permits	Complete technical review and issue permits 2022-2023 Update: this Action Number will be merged with 2.4.3S	DEP, MS4 permittees	Statewide	2020	MS4s not addressing DEP review comments, staff shortages	 2020 Update: DEP has reviewed and ap Plans submitted in 2017 including cases under litt reviews. 2021 Update: The majority of MS4 per Watershed have approve implementation to meet their MS4 permits. There Watershed without appr permittees to resolve th that they can be approve 2022 Update: While the majority of per have approved PRPs, DE permittees without appr deficiency letters and pr PRP that can be approve to address this issue. EP/ determine a path forwar their PRPs can be approve 2023 Update: The majority of the MS4 approved PRPs and are i work with the few remain approved PRPs.
2.5.25	Develop the NPDES MS4 Permit	In the development of this permit, provide opportunities for input from stakeholders, including but not limited to the Phase 3 WIP Stormwater Workgroup, as part of the normal	DEP	Statewide	Beginning 2019		2020 Update: DEP has prepared conce has solicited and receive other stakeholders. 2021 Update: DEP is continuing to wor comments from interest account (<u>RA-EPPAMS4@</u> 2022 Update:

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
d approved the majority of PRPs and TMDL 017. There are a few complicated cases, r litigation, that have delayed completion of	
permittees within the Chesapeake Bay roved PRP plans and are working on BMP neet the pollutant load reduction obligations of here are currently 43 permittees in the Bay approved PRPs. DEP is working with these the technical deficiencies with their PRPs to roved.	
f permittees in the Chesapeake Bay Watershed DEP continues to struggle to get the remaining approved PRPs to respond to technical d provide the information needed to generate a oved. EPA offered technical assistance to DEP EPA and DEP are working together to ward to get permittees to the point where proved.	
AS4s in Chesapeake Bay Watershed have re implementing their plans. DEP continues to maining permittees that do not yet have	

iceptual plans for the next permit term and ived input from the regulated community and

vork on next permit and is accepting ested parties through the MS4 resource <u>4@pa.gov</u>).

A	ction #	Description	Performance Target(s) and	Responsible Party(jes) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	Progress to Date (2020 – 2021 - 2022) And
			2024-2025 Updates				Recommendations	Technical and Financial	Technical and Financial	(2023 Progress Updates HIGHLIGHTED)

		public participation process.			DEP is coordinating with EPA on the development of the next permit term. It is anticipated that an announcement on the timeline for the future permit term will be made soon. DEP has extended the MS4 General Permit (PAG-13) to March 15, 2025 and has formed a workgroup that includes EPA staff. The workgroup will meet at least 8 times from November 2022 to March 2023 and will help inform DEP's development of the reissued PAG-13. 2023 Update: The PAG-13 workgroup met 8 times from November 2022 to March 2023 and provided valuable feedback. DEP has prepared pre-draft PAG-13 documents that have been shared with EPA. EPA has conducted a preliminary review and has shared comments. It is	
2.5.3S	Continue to implement the NPDES Municipal Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.DEPInspection DEP DEP DEPDEP	Statewide	Ongoing	anticipated that a draft PAG-13 General Permit will be published in 2024 for public comment. 2020 Update: An end of year CMS report has been submitted, and DEP will continue to provide permit and compliance information to ICIS. 2021 Update: An end of year CMS report will be submitted during the Fall of 2021 for FFY 2021, and DEP will continue to provide permit and compliance information to ICIS. 2022 Update: An end of year CMS report was submitted during the Fall of 2021 for FFY 2021, and DEP will continue to provide permit and compliance information to ICIS. 2022 Update: An end of year CMS report was submitted during the Fall of 2022 for FFY 2022, and DEP will continue to provide permit and compliance information to ICIS. 2023 Update: 2023 Update:	
2.5.4S	Develop the NPDES Industrial Stormwater Permit	2022-2023 Update: DEP Renew the PAG-03 general permit.	Statewide	2019 through 2021	An end of the year CMS report was submitted to EPA for FY 2023, and DEP continued to provide permit and compliance information to ICIS. 2020 Update: A draft of the PAG-03 general permit for reissuance has been developed and is under legal review. 2021 Update: The current PAG-03 has been administratively extended for one year. The draft PAG-03 is under review. 2022 Update:	2024-2025: This milestone was completed in 2022.

Action #	Description	Performance Target(s) and	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or	Resources <u>Available</u>	Resources <u>Needed</u>	
		2024-2025 Updates	Farmerships			Recommendations	Technical and Financial	Technical and Financial	(2023 Pro

							DEP published an initial objected to PAG-03 on F objection on June 3, 202 August 20, 2022. The fir on December 24, 2022 a 2023. 2023 Update: This milestone was comp December 2022.
2.5.55	Continue to implement the NPDES Industrial Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.	DEP	Statewide	Ongoing		 2020 Update: An end of year CMS reports continue to provide performance of year CMS reports continue to provide performance of year CMS reports continue to provide performance of year CMS reports for FFY 2022, and DEP will continue to compliance information compliance information 2023 Update: An end of the year CMS and DEP will continue to continue to compliance to complian
2.5.6S	Continue to implement the NPDES Construction Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Pennsylvania's Chapter 102 requires NPDES permitting for an acre or more of earth disturbance related to construction activities. The requirements also include post- construction stormwater management on all permitted sites. Inspection metrics and results are	DEP	Statewide	Ongoing		information to ICIS. 2020 Update: DEP continues to implem with the assistance of de year CMS report has bee provide permit and com 2021 Update: DEP continues to implem with the assistance of de year CMS report has bee provide permit and com 2022 Update: DEP continues to implem with the assistance of de year CMS report has bee provide permit and com 2022 Update: DEP continues to implem with the assistance of de year CMS report has bee provide permit and com

Progress to Date (2020 – 2021 - 2022) And Progress Updates HIGHLIGHTED)

al draft of PAG-03 on January 22, 2022. EPA n February 22, 2022. DEP resolved EPA's 2022. DEP published a second draft permit on final PAG-03 was published in the <u>PA Bulletin</u> 2 and will become effective on March 24,	
mpleted with the reissuance of PAG-03 in	
eport has been submitted and DEP will ermit and compliance information to ICIS.	
eport has been submitted and DEP will ermit and compliance information to ICIS.	
eport was submitted during the Fall of 2022 will continue to provide permit and on to ICIS.	
/IS report was submitted to EPA for FY 2023, to provide permit and compliance	
lement the NPDES program under Chapter 102 delegated conservation districts. An end of been submitted and DEP will continue to ompliance information to ICIS.	
lement the NPDES program under Chapter 102 delegated conservation districts. An end of been submitted and DEP will continue to ompliance information to ICIS.	
lement the NPDES program under Chapter 102 delegated conservation districts. An end of been submitted and DEP will continue to ompliance information to ICIS.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(ję <u>s</u>) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	((2023 Pro
		provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES information to be provided by DEP for ICIS database inclusion.							2023 Update: DEP continued to implem 102 with the assistance of of year CMS report was s provide permit and comp
2.5.7S	Continue water quality demonstration requirements for post- construction stormwater management	Beginning in 2019, DEP's Ch 102 program overhauled the water quality approach and started to require every applicant to perform a quantitative demonstration that their project will not cause post- construction TSS and nutrient loads in excess of pre- construction loads. Prior to this requirement, there was a presumption that if volume management was met water quality requirements would also be met.	DEP	Statewide	Ongoing				2022 Update: This is a new milestone for DEP continues to require demonstrate that their p total suspended sedimen construction loads using 2023 Update: DEP continued to require demonstrate that their p total suspended sedimen construction loads using quality demonstration has Manual.
2.5.1W	Continue to implement the NPDES Sewage and Industrial Waste Program Delegation, to include	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring	DEP	Statewide	Ongoing				2020 Update: DEP continues to implem CMS report has been sub permit and compliance in 2021 Update:

Progress to Date	
(2020 - 2021 - 2022)	
And	
Progress Updates HIGHLIGHTED)	



plement the NPDES program under Chapter nce of delegated conservation districts. An end vas submitted to EPA and DEP will continue to compliance information to ICIS.	
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uire Chapter 102 NPDES permittees to eir projects will not cause post-construction ment (TSS) and nutrient loads in excess of pre- sing DEP-approved calculations.	
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plement the NPDES program. An end of year n submitted and DEP will continue to provide ace information to ICIS.	

Action #	Description	Performance Target(s) and <mark>2024-2025 Updates</mark>	Responsible Party(jęs) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical and Financial	Resources <u>Needed</u> Technical and Financial	Progress to Date (2020 – 2021 - 2022) And (2023 Progress Updates HIGHLIGHTED)	Milestone Adjustments (2024 – 2025)
	permitting, compliance, inspection, and enforcement	Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.							 DEP continues to implement the NPDES program. An end of year CMS report has been submitted and DEP will continue to provide permit and compliance information to ICIS. 2022 Update: DEP continues to implement the NPDES program. An end of year CMS report has been submitted and DEP will continue to provide permit and compliance information to ICIS. 2023 Update: DEP continued to implement the NPDES program. The end of year CMS report was submitted to EPA for FY 2023. DEP will continue to provide permit and compliance information to ICIS. 	

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

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.

2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.

3. Outputs and outcomes – both short and long-term. 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.

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.

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).

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description).

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