			Pennsylvar			nplementation Pl ting Period: Janua	• •		s Milestone Reportin <u>4</u>
Action #	Description	Performance	Responsible	Geographic	Expected	Potential	Resources	Resources	
		Target(s)	Party(ies) and	Location	Timeline	Implementation	<u>Available</u>	Needed	
		and	Partnerships			Challenges or			
						Recommendations	Technical and	Technical and	
							Financial	Financial	

# Priority Initiative 1: Communications and Outreach

# Section 2, State Action, Numeric Commitments

	306,196 acres in	PDA, SCC, CDs,	Chesapeake	December	2020 Update:
communication,	conservation	CCAs, Private	Вау	2025	All state agencies,
outreach and	tillage; 805,778	Consultants, Penn			WIP action leaders and
stewardship	acres in no-till.	State Extension, No			message and the availab
programs to		Till Alliance,			encouraged and empha
increase the use		Farmland			REAP tax credit program
of conservation		Preservation, Local			
tillage and no-till		Farmland Trusts /			2021 Update:
-		Conservancies, PA			All state agencies and p
		Farm Bureau			message and the availab
					encouraged and empha
					progress through 2021 s
					significant resources thr
					purchasing No-till equip
					for no-till equipment th
					The PA No Till Alliance of
					https://panotill.org/
					2022 Update: REAP fun
					equipment. In addition,
					legislature and signed b
					State Budget. From this
					Program (ACAP) was cre
					management practices of
					county conservation dis
					conservation districts w
					2023 Update:
					The Agricultural Conserv
					\$141 million committed
					delegation agreements.
					existing cover crop prog
					PA No-Till Alliance, in co
					increase its network of f
					increase when the latest
	outreach and stewardship programs to increase the use	outreach andtillage; 805,778stewardshipacres in no-till.programs toincrease the useof conservationtillage and no-till	outreach and stewardship programs to of conservationtillage; 805,778 acres in no-till.Consultants, Penn State Extension, No Till Alliance, Farmlandof conservation tillage and no-tillFarmland Farmland Trusts /	outreach and stewardshiptillage; 805,778 acres in no-till.Consultants, Penn State Extension, No Till Alliance, Farmlandprograms to increase the use of conservation tillage and no-tillFarmland Farmland Trusts / Conservancies, PA	outreach and stewardship programs to increase the use of conservationtillage; 805,778 State Extension, No Till Alliance, FarmlandConsultants, Penn State Extension, No Till Alliance, Preservation, Local Farmland Trusts / Conservancies, PAEast and the set of the

# ting

Progress to Date (2020 – 2021 – 2022 – 2023 - 2024)

d partner organizations continue to communicate the lability of funding (technical or financial). This BMP is nasized. PA has invested significant resources through the am to assist PA farmers in purchasing No-till equipment.

partner organizations continue to communicate the lability of funding (technical or financial). This BMP is nasized. As shown in the Numeric Milestones, submitted 1 shows an increase in reported no-till. PA has invested hrough the REAP tax credit program to assist PA farmers in ipment. In 2021, \$3.5 million in tax credits were awarded through REAP.

e continues to assist in education/outreach/training, etc. See

Inding continues to provide producers with funding for no-till n, the Pennsylvania Clean Streams Fund was funded by the by the Governor as part of the FY 2022-23 General Fund his, the Pennsylvania Agricultural Conservation Assistance created, which provides \$154 million in funds for best s on farms statewide. The first apportionment of funds to listricts is set to occur in January 2023. It is anticipated that will enter delegation agreements in January 2023.

ervation Assistance Program (ACAP) is up and running with ed to 66 county conservation districts through signed ts. At least 10 counties are using funds to either supplement ograms or start a new cover crop program. In addition, the coordination with the Soil Health Coalition, continues to if farmers. Look for acres of cover crops and no-till to est ag census figures are released.

Action #	Description	Performance Target(s) and	Responsible Party(jess) 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	
									Pennsylvania's Sustainal Agriculture Act, will be f to the Sustainable Agricu per dollar match) will be considered "climate sma crops, conversion of cro buffers, agroforestry and Chesapeake Bay watersh provide statewide fundi <b>2024 Update:</b> ACAP implementation co with producers statewide within the Chesapeake B The Sustainable Ag Boar Sustainable Ag Grant pro Bulletin and grants will b regenerative farming pro emphasis on soil health. Basin program and must
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.			<ul> <li>2020 Update:</li> <li>All state agencies, WIP a communicate the messa This BMP is encouraged crop BMPs for FY 2019-2 Credit in any area covert</li> <li>2021 Update:</li> <li>All state agencies and pamessage and the available encouraged and emphase progress through 2021 s provides that Cover Crop agricultural TMDL. In 20 and roller/crimpers through the transmission of cover funds.</li> </ul>

hable Agriculture Board, provided for under the Sustainable e funded in part by Chesapeake Bay MEB IIJA funds. Related riculture Board, grants of up to \$25,000 (or \$50,000 if dollar be awarded for projects that improve soil health and are mart" or "regenerative agriculture" practices, such as cover ropland to rotational grazing, working buffers, forested and silvopasture. Although limited initially to the rshed due to funds being used, it is the SCC's intent to ding as it become available.

continued in 2024 with now over 1,200 signed contracts vide. It is estimated that roughly 70% of these contracts lie e Bay watershed.

bard was appointed in 2024 and the board met twice. program guidelines are currently being published in the PA Il begin being awarded in 2025. Projects will include practices that fund small, diversified family farms with an th. Funding is provided through EPA's IIJA Most Effective ust be spent in the Bay watershed.

in no-till acreage from 2012 to 2022.

P action leaders and partner organizations continue to ssage and the availability of funding (technical or financial). ed and emphasized. REAP made some changes to the cover P-20 and beyond. Also, Cover Crops are eligible for 90% Tax ered by an agricultural TMDL.

partner organizations continue to communicate the lability of funding (technical or financial). This BMP is nasized. As shown in the Numeric Milestones, submitted 1 shows an increase in reported cover crop acres. REAP rops are eligible for 90% Tax Credit in any area covered by an 2021, \$210,500 was awarded in tax credits for cover crops are the REAP tax credit program.

over crops were planted last fall utilizing \$13,109 of CEG

Action #	Description	Performance Target(s) and	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	(
									<b>2022 Update</b> : Legislative (ACAP).
									The Pennsylvania Clean S the Governor as part of t Pennsylvania Agricultura which provides \$154 mil statewide. The first app to occur in January 2023 delegation agreements i include technical and fin conservation districts wi
									using the Voluntary Proc cover crop type and plan approved by the Chesap will be applied in select o
									<b>2023 Update:</b> The Resource Enhancem agriculture BMPs continu year. The total estimate the past year was \$530,0 may receive up to 90% co were used for equipmen drones.
									As noted regarding no-ti Conservation Assistance committed to 66 county agreements. At least 10 crop programs or start a No-Till Alliance, in coord its network of farmers. I the latest ag census figur
									Pennsylvania's Sustainab Agriculture Act, will be fu to the Sustainable Agricu per dollar match) will be considered "climate sma crops, conversion of crop

ive passage of Agricultural Conservation Assistance Program

In Streams Fund was funded by the legislature and signed by of the FY 2022-23 General Fund State Budget. From this, the ural Conservation Assistance Program (ACAP) was created, million in funds for best management practices on farms opportionment of funds to county conservation districts is set 23. It is anticipated that conservation districts will enter is in January 2023. It is anticipated that ACAP funding will financial assistance for cover crops. It is anticipated that will enter delegation agreements in January 2023.

Penn State, Capital RC&D, and CBPO to create a method roducer Survey and the Transect Survey better account for lanting / harvesting method. This alternative method was apeake Bay Agriculture Workgroup in November 2023 and ct county(ies) for 2022 numeric reporting.

ement and Protection Program (REAP) tax credit for tinues to be oversubscribed at \$13 million in credits each ated number of credits and acres issued for cover crops over 0,000 for 17,000 acres of cover crops. Eligible applicants 6 credit for multispecies cover crops. In addition, tax credits tent, including no-till drills, crimpers, and new this year,

b-till and conservation tillage above: The Agricultural ice Program (ACAP) is up and running with \$141 million inty conservation districts through signed delegation 10 counties used funds to either supplement existing cover it a new cover crop program. In addition, the Pennsylvania ordination with the Soil Health Coalition continues to increase is. Look for acres of cover crops and no-till to increase when gures are released.

inable Agriculture Board, provided for under the Sustainable be funded in part by Chesapeake Bay MEB IIJA funds. Related griculture Board, grants of up to \$25,000 (or \$50,000 if dollar II be awarded for projects that improve soil health and are smart" or "regenerative agriculture" practices, such as cover cropland to rotational grazing, working buffers, forested

	and	Party(jes) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	<u>Available</u> Technical and Financial	<u>Needed</u> Technical and Financial	
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.			buffers, agroforestry an Chesapeake Bay waters provide statewide fundi <b>2024 Update:</b> The Resource Enhancerr agriculture BMPs contin year. The total estimate the past year was \$790, applicants may receive of tax credits were used for At least 11 counties (sta establish new cover crop <b>2020 Update:</b> All state agencies, WIP a communicate the messa This BMP is encouraged <b>2021 Update:</b> All state agencies and pa message and the available encouraged and emphas progress through 2021 s Reporting and tracking of and Resource Improver In 2021, \$110,000 was a REAP Tax Credit Program <b>2022 Update:</b> The Pennsylvania Clean the Governor as part of Pennsylvania Agricultura which provides \$154 mi statewide. The first app to occur in January 2023 management projects w
	communication, outreach and stewardship programs to increase implementation of pasture	communication, outreach and stewardship programs to increase implementation of pastureland used for pasture would follow NRCS Prescribed Grazing Plan or Resource Improvement Practice.	communication, outreach and stewardship programs to increase implementation of pastureland used for pasture would follow NRCS Prescribed Grazing Plan or Resource Improvement Practice.Extension, Private Consultants, CDsImprovement Prescribed Grazing Plan or ResourceExtension, Private Consultants, CDs	communication, outreach and stewardshipland used for pasture would follow NRCSExtension, Private Consultants, CDsprograms to increase implementation of pasturePrescribed Grazing Plan or ResourceHan or Resource Practice.	communication, outreach and stewardshipland used for pasture would follow NRCSExtension, Private Consultants, CDsprograms to increase implementation of pasturePrescribed Grazing Plan or ResourceHan or Resource Practice.	communication, outreach and stewardship programs to increase implementation of pasture management. Han or Resource implementation of pasture management.	communication, outreach and stewardship programs to increase implementation of pastureland used for pasture would follow NRCS Prescribed Grazing Plan or Resource Improvement Practice.Extension, Private Consultants, CDsCBP definition of Prescribed Grazing and non-alignment with PA State regulatory requirements under Chapter 91 Management and Chapter 102 Ag	communication, outreach and stewardship programs to increase implementation of pasture management. Han or Resource Improvement Practice. Han or Resource Han or Resource

and silvopasture. Although limited initially to the rshed due to funds being used, it is the SCC's intent to uding as it become available.

ement and Protection Program (REAP) tax credit for tinues to be oversubscribed at \$13 million in credits each ated number of credits and acres issued for cover crops over 20,000 in credits for 28,000 acres of cover crops. Eligible ve up to 90% credit for multispecies cover crops. In addition, for equipment, including no-till drills, crimpers, and drones.

tatewide) are using ACAP funding to enhance existing or rop programs.

P action leaders and partner organizations continue to ssage and the availability of funding (technical or financial). ed and emphasized.

partner organizations continue to communicate the lability of funding (technical or financial). This BMP is hasized. As shown in the Numeric Milestones, submitted 1 shows an increase in reported Prescribed Grazing acres. g of implementation of the NRCS 528 Prescribed Grazing Plan ement Practice criteria remains a challenge.

s award in tax credits for Pasture Related BMPs form the am.

an Streams Fund was funded by the legislature and signed by of the FY 2022-23 General Fund State Budget. From this, the ural Conservation Assistance Program (ACAP) was created, million in funds for best management practices on farms pportionment of funds to county conservation districts is set 123. It is anticipated that rotational grazing and pasture is will be included for ACAP funding.

Agricultural Conservation Assistance Program (ACAP) is now SCC will track farms that have installed rotational grazing and systems by next year's report, via Practice Keeper. It is

Action #	Description	Performance Target(s) and	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	
									<ul> <li>anticipated that a good in has been encouraging corpractices that do not record it is also estimated that is prescribed grazing in 202</li> <li>Pennsylvania's Sustainable Agriculture Act, will be fit to the Sustainable Agriculter act, will be for the Sustainable Agriculter act, will be for the Sustainable Agriculter act, will be for considered "climate smatcrops, conversion of crop buffers, agroforestry and Chesapeake Bay watersh provide statewide funding 2024 Update:</li> <li>The ACAP program through the rapproved by the Comminare in the Bay watershed through ACAP.</li> <li>The Sustainable Ag Boar farms with conversion or comparison of the sustainable action or complexity and the sustainable action action or complexity and the sustainable action action action action actions actions and the sustainable actions actions</li></ul>
2.1.4A	Communicate with EPA Region 3 Agricultural Liaison, Ag Permitting, Compliance and Enforcement Staff	Provide status updates related to agricultural programs and BMP implementation	DEP, SCC, EPA	Statewide	Quarterly				<ul> <li>2020 Update: Initial call held with EPA November 24, 2020 to d Evaluation.</li> <li>2021 Update: DEP and SCC meet with discuss WIP progress. D monthly basis to discuss needs. DEP and SCC res agricultural programs su via virtual conference ca Assessment will be cond</li> </ul>

ad number of applications will include this practice. The SCC conservation districts to use ACAP funds for agronomic require the same level of engineering as structural practices. at the REAP program issued over \$100,000 in credits for 2023.

hable Agriculture Board, provided for under the Sustainable e funded in part by Chesapeake Bay MEB IIJA funds. Related riculture Board, grants of up to \$25,000 (or \$50,000 if dollar be awarded for projects that improve soil health and are mart" or "regenerative agriculture" practices, such as cover ropland to rotational grazing, working buffers, forested and silvopasture. Although limited initially to the rshed due to funds being used, it is the SCC's intent to iding as it become available.

rough the Penn State Center for Ag Conservation Assistance eveloping a Practice Approval System (PAS) to build technical r conservation district staff and other conservation n and implement practices. The first suite of practices e new PAS system is grazing and watering systems which was mission. Twenty-four counties (at least two-thirds of which ned) are reporting funding prescribed grazing practices

bard will presumably fund practices that assist conventional of row crops to rotational grazing practices.

PA permitting, compliance, and agriculture staff on discuss the Key Areas to Address in EPA's Milestone

th EPA CBPO and Water Division staff on a quarterly basis to DEP staff also meets with EPA CBPO on a bi-weekly and/or iss technical assistance needs as well as model process esponded to informal questions regarding Pennsylvania's submitted by EPA Water Division in written format as well as call. In 2022, the EPA Animal Agriculture Programs nducted.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									2022 Update: DEP and SCC met with E basis, if not more freque primarily due to the EPA General Permit (PAG-12 has participated in mult Infrastructure funding a issues, Management Bo Agriculture Programs As DEP / SRBC Technical Te 2023 Update: DEP and SCC met with E basis, if not more freque primarily due to the CAF quarterly basis. DEP and EPA, such as those relat grants, CAST and other to CBPO, and USDA/EPA Co CBPO and DEP / SRBC Technical In addition, DEP Agricult and progress. Currently discuss Agriculture Com 2024 Update: DEP and SCC met with E basis, if not more freque meetings with EPA, such Chesapeake Bay grants, office hours with EPA CE
									meetings were held with year.
									In addition, DEP Agricult and progress. Currently discuss Agriculture Com
2.1.5A	Hire 2 Conservation District Field Representatives (CDFRs) in the	CDFRs provide communication, liaison, and operational support to conservation	DEP	Northeast Counties	July 2022				2022 Update: Two CDFRs were hired b northeast counties, inclu 2023 Update:

n EPA CBPO and Water Division staff on at least a quarterly quently. However, meetings with EPA agricultural staff were PA Animal Agriculture Programs Assessment and the CAFO 12) and not held on a regular, quarterly basis. DEP and SCC ultiple ad-hoc meetings with EPA, such as those related to g and other Chesapeake Bay grants, CAST and other technical Board office hours with EPA CBPO, and the PA Animal Assessment. Bi-weekly meetings were held with CBPO and Team throughout the year.

n EPA CBPO and Water Division staff on at least a quarterly quently. However, meetings with EPA agricultural staff were AFO General Permit (PAG-12) and not held on a regular, nd SCC have participated in multiple ad-hoc meetings with ated to Infrastructure funding and other Chesapeake Bay er technical issues, Management Board office hours with EPA Crediting Task Force. Monthly meetings were held with Technical Team throughout the year.

ultural Compliance staff meet bi-monthly to discuss cases ly developing a quarterly meeting with Regional DEP staff to mpliance, inspections, Ch 102, and BMP implementation.

h EPA CBPO and Water Division staff on at least a quarterly quently. DEP and SCC have participated in multiple ad-hoc uch as those related to Infrastructure funding and other ts, CAST and other technical issues, Management Board CBPO, and USDA/EPA Crediting Task Force. Monthly vith CBPO and DEP / SRBC Technical Team throughout the

ultural Compliance staff meet bi-monthly to discuss cases ly holding quarterly meetings with Regional DEP staff to impliance, inspections, Ch 102, and BMP implementation.

d by July 2022, providing assistance and support to the cluding those within the Chesapeake Bay watershed.

Action #	Description	Performance Target(s) and	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	
	Northeast Region, providing operational and liaison assistance to conservation districts	districts; these CDFRs will be engaged in Chesapeake Bay- related restoration activities and efforts.							This task was completed
2.1.6A	Hire 1 Conservation District Field Representatives (CDFRs) in the Northcentral Region, providing operational and liaison assistance to conservation districts	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 repose 2023 Update: Task was completed in 2
2.1.7A	Hire 2 Conservation District Field Representatives (CDFRs) in the Southcentral 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	Southcentral Counties	July 2023				<ul> <li>2022 Update: Two CDFRs were hired be southcentral counties.</li> <li>2023 Update: Both positions experient September 2023. The of</li> <li>2024 Update: Both positions are filled</li> </ul>
2.1.8A	Food Processing Residuals (FPR) Workgroup	In early 2024, DEP began convening stakeholders for an FPR workgroup to better understand concerns related to FPR application in Pennsylvania, including odor complaints and concerns about impacts to water resources, and to	DEP, State Agency Partners (SCC, PDA), Conservation Districts, and Legislators	Statewide	Began March 2024				2023 Update: This is a new milestone 2024 Update: DEP set up an FPR Work provide guidance for sa stakeholders to convent FPR application. The gro application.

ted in 2022.

osted and expected to fill by March 2023.

in 2023.

ed by December 2022, providing assistance and support to the s.

enced turnover in 2023. One position was filled in eother position will be filled in early 2024.

ed as of the end of 2024.

ne for 2024-2025.

ork group. While the DEP maintains an FPR manual to safe FPR application, the Department has gathered ene an FPR Workgroup to better address concerns related to group will discuss common complaints related to FPR

Action #	Description	Performance Target(s) and	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	
		discuss options for addressing those concerns through changes to legislation, regulation, and/or policy, including likely revisions to DEP's FPR Manual.							Food Processing Residua in animal and non-anima facilities, etc.). In Pennsy operation as a soil amen FPR is often transported for land application. Bec Commonwealth's Solid V Commonwealth's residu SWMA, FPR application Pennsylvania Departmen <i>Residual Management N</i> In the last year, DEP, the lawmakers have receive some parts of Pennsylva concerns about potentia Often, many complaints Manual. Since DEP curre safe FPR land application convene an FPR workgro land application in Penn concerns of the use of FP Manual in addressing ex enhance Pennsylvania's agricultural operations. The proposed solutions detail provided in the bo Clarify liability a Enhance training Create a clearer Require more st Require notifica Codify required Reorganize inter
2.1.9A	Agriculture Permitting Roundtable	In early 2024, DEP began convening a group of agricultural stakeholders to discuss issues related to permitting on	DEP, State Agency Partners (SCC, PDA), Conservation Districts, and Agricultural Industry Stakeholders	Statewide	Began March 2024				2023 Update: This is a new mileston 2024 Update: The Agriculture Permitti into three subject matter Construction 102, and 10 Some short-term recom

dual Waste (FPR) is a type of residual waste that is produced imal food processing (slaughterhouses, food packaging insylvania, FPR is able to be used in a normal farming rendment, soil conditioner, and alternative nutrient source. ed to and stored at agricultural operations in Pennsylvania because FPR is a waste, it is addressed under the d Waste Management Act (SWMA) and by the dual waste regulations at 25 Pa. Code Article IX. Under the on is exempted from permitting as long as guidance in the nent of Environmental Protection's (DEP) *Food Processing t Manual* (FPR Manual) is followed.

the Pennsylvania Department of Agriculture (PDA), and state ved several comments and complaints related to FPR use in lvania. The most common complaints are related to odor and tial threats to drinking water sources, like groundwater. Its submitted to DEP are not violations under the FPR rrently maintains the FPR Manual to provide guidance for tion, DEP, in partnership with PDA, gathered stakeholders to group to better address concerns related to FPR storage and nnsylvania. The group: discussed the current status and f FPR in Pennsylvania; evaluated the efficacy of the FPR existing concerns; and created proposed solutions to a's management of FPR land application and storage at ts.

ns from the workgroup are summarized as follows, with more body of the document:

- and secure documentation;
- ing for FPR haulers;
- er definition of FPR;
- stringent odor management for high-odor-risk FPR;
- cation of intent to store or apply FPR;
- ed minimums in land application system (LAS) plans;
- ternal management of FPR rules; and
- ation around FPR rules and management.

one for 2024-2025.

tting Roundtable continued to meet through 2024 breaking tter workgroups (Concentrated Animal Feeding Operations, I 105). Each workgroup provided a list of recommendations. Immendations have been acted upon. Other

Action #	Description	Performance Target(s) and	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	
		agricultural operations in Pennsylvania. In addition to broader DEP initiatives to improve permitting processes (such as Project Jumpstart and the pilot program to streamline review of Chapter 102 permits) this roundtable is focused on complementary or additional initiatives that can be undertaken to improve permitting specifically for agricultural operations. Initial discussions have identified CAFO permitting, Chapter 102 permitting, and Chapter 105 permitting as focus areas.							recommendations cont the DEP.
2.1.10A	Track Nutrient and Manure Management Delegation Agreements Education and Outreach Efforts	PA DEP Tracks and Reports Education and Outreach Required Output measures and reports bi-annually through CBRAP progress reporting	PA DEP, SCC?	Chesapeake Bay/Statewid e	2023-2025	EPA Grants Progress Reporting is on the Federal Fiscal year while Milestone progress is on the Calendar year.			<ul> <li>2023 Update:</li> <li>Nutrient management is community to instruct if Agriculture Erosion and October 1, 2022-Septer</li> <li>299 outreach e</li> <li>17,450 farmer e</li> <li>Train 49 farm Erosion and See</li> <li>2024 Update:</li> <li>Nutrient management is community to instruct if</li> </ul>

ontinue to inform short, medium, and long term priorities of

nt technicians conduct outreach initiatives to the agricultural ct farmers and consultants regarding the MMM and and Sediment Control requirements for the time period tember 30, 2023:

events and activities

er contacts via outreach and assistance

m consultants on Manure Management and/or Agriculture Sediment Control planning requirements

nt technicians conduct outreach initiatives to the agricultural ct farmers and consultants regarding the MMM and

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									Agriculture Erosion and October 1, 2023-Septer
2.1.11A	Section 319 WIP Audit and Closeout Process	There are over 40 319 WIP's throughout the state of PA which are in different stages of activity. The NPS support section is reviewing all existing WIPs, working with our partners to close out WIPs that have met their goals, updating plans older than 10 years and working with those that have been inactive.	DEP, Conservation Districts, WIP sponsors	Statewide	First round completed by June 30 <sup>th</sup> 2024				2023 Update: This is a new milestone 2024 Update: All partners with existin the partner was implem it open. All partners wit has not been updated w the next 4 years to be e guidance we indicated t also be a priority in the 319 program is not fund made. The program wi nearing the 10-year thro
2.1.1F	Implement a comprehensive communication /outreach strategy to engage farmers/lando wners in planting and maintaining riparian forest buffers. (This is part of PA's Riparian Forest Buffer Action Strategy, as published here)	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 w Advisory Committee), la included a direct mailin campaign: <u>https://www.dcnr.pa.gu</u> <u>ages/default.aspx</u> Colla discussed with PA Farm communications with P 2021 Update: DCNR continues to work launched in 2020, findin that outreach. DCNR co materials developed an as they begin outreach using lessons learned fr

nd Sediment Control requirements for the time period tember 30, 2024: a events and activities er contacts via outreach and assistance rm consultants on Manure Management and/or Agriculture Sediment Control planning requirements

ne for 2024-2025.

ting WIPs were contacted to determine activity and whether ementing the WIP and if they were still interested in keeping with WIPs older than 8 years were informed that a WIP that d within the last 10 years would need to be updated within e eligible for funding through 319 NPS funds. In the 2025 FY ed that updates were a priority for funding and that this would he next FY. With EPA direction and concurrence, the Section unding new WIPs for the foreseeable future until updates are will be contacting partners on an annual basis who are hreshold or have shown a lack of activity.

with its partners via the RFBAC (Riparian Forest Buffer , launched a two-fold outreach effort in June 2020 that ling to riparian area landowners and a public media

.gov/Conservation/Water/RiparianBuffers/BufferMyStream/P ollaboration continues with RFBAC and DCNR, and has rm Bureau opportunities to enhance outreach and n PA farmers.

ork on the Buffer My Stream outreach campaign that was ding funding to implement projects that have resulted from continues to collaborate with the RFBAC to share outreach and is now partnering with Chesapeake Bay Foundation (CBF) ch work on the K10 marketing campaign with the firm SWELL, I from Buffer My Stream. As shown in the Numeric

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
						· · · · · · · · · · · · · · · · · · ·			Milestones, submitted p
									buffers in fenced riparia
									DCNR has not yet follow
									outreach, due to a short
									intends to reinvigorate t
									ready to disburse. DCNR
									reputation of buffers as follow-through with imp
									2022 Update:
									In 2022, the Agricultural
									by the House and Senate
									Through an allocation to
									\$5.28 million to disburse
									outreach strategies to he
									PA Farm Bureau for feed
									DCNR also hired five new
									total number of Regiona
									to seven. Each of these s
									commonwealth, and eac new specialists started in
									2023 Update:
									DCNR distributed the \$5
									allocated to the Keyston
									and Jobs Act (IIJA) funding
									(C2P2) grants for buffer
									Watershed and the Com Specialists are working v
									for the Chesapeake Bay,
									Conservancy, and others
									implement buffers with
									continues to do buffer o
									our Prime Prospects out
									funding necessary to do
									2024 Update:
									DCNR is in the process o work. An RFP is being de
									work. All KEP is being de

d progress through 2021 shows an increase in reported forest rian areas.

owed up with Farm Bureau to partner on continued ortage of implementation funding in 2021. However, DCNR e this effort as soon as additional implementation funds are NR felt it would be a detriment to the program and as a practice to conduct outreach without the funding to mplementation.

ral Conservation Assistance Program (ACAP) was approved ate and the program started.

to the Keystone Tree Fund, DCNR has received an additional rse as buffer grants. DCNR will be reinvigorating some help utilize these new funds, including reaching out to the redback.

new Regional Watershed Forestry Specialists, bringing the nal Watershed Forestry Specialist positions within DCNR up e seven positions serves a unique region of the each region touches a portion of the Chesapeake Bay. The d in late August and have been working on outreach since.

\$5.28M in American Rescue Plan Act (ARPA) funding one Tree Fund, and \$2M in EPA Infrastructure Investment ding, via the Community Conservation Partnership Program er implementation to various partners working around the ommonwealth. DCNR's new Regional Watershed Forestry g with C2P2 grantees with buffer funding like Stroud, Alliance ay, Chesapeake Conservancy, Western Pennsylvania ers to conduct outreach to streamside landowners to th these EPA and ARPA funds by December 31, 2025. DCNR r outreach on an as-needed basis. We see value in updating butreach tool but have not yet been successful in securing the do so.

DCNR is in the process of updating our Prime Prospects outreach prioritization work. An RFP is being developed to hire a contractor to expand the tool that

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies</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	
									currently exists for the E landowner data to more DCNR continues to awar according to their own p in state funds were awa forest buffers statewide
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	By 2023	Brand new program- Coordination, scheduling, lack of funding, etc.			<ul> <li>2020 Update: DCNR, in cooperation w Committee in early 2020 stakeholders who will w communications efforts website in 2020 https://www.dcnr.pa.go px, and has dedicated a</li> <li>2021 Update: DCNR continues to work guide to small lawn come the end of 2021. But dee lawn conversion implem dampened outreach effor the new program is grow projects. As soon as a st will reinvigorate outreace</li> <li>2022 Update: PA DCNR has received a conducted for the Lawn stream remains a challe</li> <li>DCNR accepted grants v will be announced in the The C2P2 Partnership Lat to early 2023.</li> <li>During Fall 2022, DCNR grants to now include la Forestry (CWF) Grant Op DCNR accepted grants v</li> </ul>

e Bay Watershed statewide, and to update the current Bay ore recent tax parcel maps. This will be completed in 2025.

vard C2P2 grants to partners who conduct outreach n prioritization methodologies. In 2024, approximately \$2M varded to grantees to outreach and implement riparian de.

with its partners, formed a new Lawn Conversion Advisory D20. This committee includes a variety of partners and work together to inform future outreach and ts. DCNR also launched a dedicated lawn conversion

gov/Conservation/Water/LawnConversion/Pages/default.as a staff person to coordinate this work.

bork with the LCAC to develop outreach materials and a DIY onversion projects. Some outreach materials will be ready by developing a steady stream of implementation funding for ementation projects has been a challenge, which has efforts as landowners have been frustrated. Their interest in rowing, but DCNR has been unable to implement many steady mechanism for funding has been developed, DCNR each efforts around Lawn Conversion.

l an overwhelming response to small amounts of outreach vn Conversion program, but establishing a steady funding llenge.

s via the C2P2 Partnerships RFP in the spring of 2022. Awards the fall of 2022.

Lawn Conversion grant announcements have been pushed

IR updated the Buffer Grant Opportunity under DCNR's C2P2 e lawn conversion, under the Community and Watershed Opportunity, which also will fund buffers and TreeVitalize. s via the C2P2 CWF RFP in the fall of 2022, and multiple conversion grants were received from partners. DCNR will

Action #	Description	Performance Target(s) and	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	
									award eligible application of EPA infrastructure fun conversion grants award
									2023 Update: Demand for Lawn Conversion active outreach to new for funding can be secured Conservation Districts and to distribute Lawn Conversion will focus outreach over landowner demand to ho capacity when compare 2024 Update: DCNR has renamed the Habitat (LtH) Program. If funding capacity. Addition funding capacity. Addition Pennsylvania Association second C2P2 CWF grant Conversion mini grants for actively focus on increase
2.1.3F	Communicate the importance and values of forests and farmland to	Increase conserved lands both in the headwaters of the PA Chesapeake Bay watershed and near developing areas.	DCNR, DEP, PALTA, etc.	Chesapeake Bay	By 2023	Coordination, scheduling, lack of funding.			implementation. <b>2020 Update:</b> DCNR Bureau of Forestr statewide Forest Action a 30-year planning horiz public polling on the imp
	facilitate and encourage state and local land conservation programs.	severepris areas							results into future work. <b>2021 Update:</b> DCNR continues to enga methods around the imp media posts <i>Good Natur</i> tours, meetings, and oth planting events, includir <u>https://www.media.pa.</u> <u>https://www.media.pa.</u> initiated several news an Forests. The Forest Action

tions with state funds, as well as a portion of the \$727,000+ funds set aside for lawn conversion work. These lawn ards will be announced in early 2023.

nversion projects from landowners outpaces funding ersion practices have been incredibly popular. Additional w landowners is not needed at this time, until additional ed for implementation. The Pennsylvania Association of s applied for and received a C2P2 CWF grant that allows them nversion mini grants to County Conservation Districts. DCNR ver the next several years on increasing partner capacity vs. o help better balance technical assistance and funding ared to demand.

the Lawn Conversion program, and it is now the Lawn to a. Demand for LtH practices continues to significantly outpace ditional active outreach to new landowners is not needed at onal funding can be secured for implementation. The cion of Conservation Districts applied for and received a nt from DCNR that allows them to distribute Lawn ts to County Conservation Districts. DCNR continues to easing partner capacity and funding availability for LtH BMP

stry celebrated its 125<sup>th</sup> anniversary in 2020; finalized the on Plan, and is currently drafting a revised strategic plan with rizon. As part of these planning efforts, DCNR conducted mportance of forests to people, and will incorporate these rk.

gage in numerous communications and outreach events and mportance of forests and conservation, including social *tured Pennsylvanians*, newsletters such as *the Resource*, other events. Engaging state and local leaders in buffer ding human health benefits:

a.gov/pages/DCNR\_details.aspx?newsid=739, a.gov/pages/DCNR\_details.aspx?newsid=748. DCNR's work articles published in The Bay Journal and Pennsylvania ction Plan was completed and announced:

Action #	Description	Performance Target(s) and	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	
									https://www.media.pa.
									Penns Woods event occu 2022 Update DCNR continues all effor continuing to finalize the and outreach events, Go Walk in Penns Woods events 2023 Update: According to a Bay Program Bay watershed—roughly protected from develop protected lands in the we 2024 Update: DCNR continues to engane methods around the import media posts Good Nature tours, meetings, and other
									Penn's Woods event ead updating the bureau's S
2.1.4F	Emphasize the full range of benefits & co- benefits of stream and wetland restoration to facilitate additional implementation.	Increased acres of wetlands restored to approximately 400 acres annually; increased feet of stream restoration projects implemented to approximately 60,000 linear feet annually.	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 Clean Water Academy DEP staff reviews of legacy sediment removal floodplain restoration (FR- LSR) projects	Four Wetlands Encroachments & Training Division (WET) staff and \$40 million in annual project funding to facilitate project implementation. Eight staff to facilitate development of the banking industry in PA and to begin implementation of the ILF program in 2021.	2020 Update: No additional staff have <u>The Pennsylvanian's Gui</u> published in December 3 Program staff participate restoration definitions a (2020 Consensus Recom Stream Restoration Polle Reviewed and approved last data reporting. Wet Initiation of one In-lieu R Compensation crediting occur at the end of the 2 2021 Update:

a.gov/Pages/DCNR\_details.aspx?newsid=770. A Walk In ccurs annually: <u>https://sites.psu.edu/walkinpennswoods/</u>

forts as outlined in the 2020 and 2021 updates, including the new Bureau of Forestry Strategic Plan, communication *Good Natured Pennsylvanians, Resource* newsletters, etc. A events continue to occur annually.

ogram <u>Press Release</u>, as of 2022, data collected by the ram show that 9.1 million acres of land in the Chesapeake hly 22% of the total land in the region—are permanently opment. Pennsylvania currently has the greatest number of a watershed at 3.6 million acres.

gage in numerous communications and outreach events and mportance of forests and conservation, including social *tured Pennsylvanians*, newsletters such as *the Resource*, other events. DCNR continues to host the annual Walk in each fall. DCNR Bureau of Forestry is in the process of 5 Strategic Plan, which is expected to be finalized in 2025.

ve been added to program complement.

Guide to Permitting for Watershed Improvement Projects was er 2020.

ated in CBP's efforts to improve stream and wetland s and crediting for Legacy Sediment Removal (LSR) projects ommendations to Improve Protocols 2 and 3 for Defining ollutant Removal Credits.)

ed three compensation banking projects completed since etland acres and stream linear footage will be reported. u Fee (ILF) project began in 2020.

ng guidance and submission of Draft ILF Instrument is to e 2020 reporting period.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
							that are subject		Compensation crediting
							to state and	Dedicated funding	occur by the end of the
							federal	sources to	9/29/2021. Program sta
							regulations	support	submitting the Draft ILF
							including	demonstration	Milestones, submitted p
							Chapter 102,	projects, including	stream restoration, due
							Chapter	monitoring and	Chesapeake Bay Waters
							105/106 and	research of those	
							Section 401	projects.	2022 Update:
							Water Quality		Compensation crediting
							Certifications.		occur as expected. Altho
							Currently		the function-based com
							approved FR-		achieving this goal, ther
							LSR plans will		program without adequ
							provide		its 2022 Wetlands "PA S
							approximately		Program Management I
							50 acres of		items relating to buildin
							wetland		2022 Undeter
							restoration and		2023 Update:
							35,000 linear		Introduction to Guiding
							feet of stream		finalized and posted to t
							restoration.		and four summary prese
							Chantan		and roll-out of this train
							Chapter		Alterations and Effect and
							105/Section 401		and expected to be fina
							WQC revisions		Chaff and accipting with t
							currently being		Staff are assisting with t
							reviewed will		(PCSWM) manual revision
							further support		the Floodplain Restorati
							implementation		PCSWM manual languag
							of aquatic		
							resource restoration		Compensation crediting
									going on revisions and r The ILF draft instrument
							projects.		guidance and lack of dee
									removed from the organ
									for in the foreseeable fu
									action in 2024.
									Approximately 33,000 li
									restoration have been a
									to date (2010-2023). Se
									none of these restored s

ng guidance and submission of Draft ILF Instrument did not de 2020 reporting period and are still in progress as of staff continue to work diligently toward the goal of LF Instrument by early 2022. As shown in the Numeric d progress through 2021 shows an increase in reported urban ue to increased reporting from MS4 permittees to the ershed Model.

ng guidance and submission of Draft ILF Instrument did not shough the program published its final technical guidance on mpensatory mitigation methodology, a major step toward ere remains uncertainty if the program can implement an ILF quate staff capacity. PA has identified this lack of capacity in A State Action Plan," presented to the Chesapeake Bay t Board in December 2022, along with several other action ling capacity and achieving Bay-wide restoration goals.

ng Principles of Aquatic Ecosystem Restoration training was to the Clean Water Academy. Two comprehensive webinars esentations were also conducted as part of the development ining. Additional more in-depth trainings on Watershed and Practitioners Perspective training are underway in 2023 nal in 2024.

n the Post Construction Stormwater Water Management sions related to stream and wetland restoration, specifically ation stormwater control measures. Redrafting of the nage is underway.

ng guidance was rescinded in January. Work has been ond replacement guidance. completion expected in late 2024. Int was not submitted due to rescission of crediting technical dedicated staff commitment. Planned staff positions were ganizational chart indicating that no positions were planned future. A new program revisions request is under way for

linear feet of stream restoration and 47 acres of wetland accomplished in the CB through mitigation banking program Several projects are planned for in 2024. Unfortunately, d streams and wetlands are credited toward Pennsylvania's

Action #	Description	Performance Target(s) and	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	
									<ul> <li>annual numeric progress credited.</li> <li>Approximately 30,000 li restoration were accom These implemented program annual numeric progress</li> <li>2024 Update:</li> <li>Compensation crediting on-going on revisions and The program continuess market the full range of restoration to facilitate</li> <li>In the past 10+ years of for 130 acress of wetland (an average of 13 acress restoration). Several pri 2025. Unfortunately, in toward Pennsylvania's a mitigation from being composed annual projeter reported toward Pennsylvania's a sediment removal projeter provide toward Pennsylvania's a sediment removal projeter pennet penn</li></ul>
2.1.5F	Incorporate outreach as a more fundable activity within C2P2 grants for riparian forest buffers, lawn conversion, and TreeVitalize. (This is part of PA's Riparian Forest Buffer Action Strategy,	Outreach clearly included as a fundable activity in Round 28.5 and future C2P2 grant rounds.	DCNR	Chesapeake Bay	Begins Spring 2023 or sooner				<ul> <li>2022 Update: This is a r DCNR had a special fall expanded Community a round, outreach activiti future regular and spec Conversion projects fun</li> <li>2023 Update: Outreach has been fully grants.</li> <li>2024 Update: C2P2 Community and W RFBs, LtH, and UCF-relation</li> </ul>

ress, due to CBP policies precluding mitigation from being

O linear feet of stream restoration and 17 acres of wetland omplished through legacy sediment removal projects in 2023. projects were verified and reported toward Pennsylvania's ress.

ing guidance was rescinded in early 2023, but work has been s and replacement guidance.

es seek opportunities to more comprehensively be able to of benefits and co-benefits of stream and wetland te additional implementation.

of mitigation banking efforts, private funding has provided and restoration and 225,000 linear feet of stream restoration, es per year for wetlands and 22,500 feet of stream projects are approved each year, with more planned for in , none of these restored streams and wetlands are credited 's annual numeric progress, due to CBP policies precluding g credited.

es of wetland restoration were accomplished through legacy ojects in 2024. These implemented projects were verified and nsylvania's annual numeric progress.

a new milestone for 2022-2023.

all grant round during the fall of 2022, under the newly y and Watershed Forestry grant opportunity. In this special *r*ities were clearly fundable activity. This will remain in all ecial CWF grant rounds for buffers, TreeVitalize, and Lawn funded by DCNR under the C2P2 CWF umbrella.

Ily incorporated as a fundable activity under DCNR C2P2

l Watershed Forestry Grants continue to fund outreach for elated work.

Action #	Description	Performance Target(s) and	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	
	as published <u>here)</u>								
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	<ul> <li>2022 Update: This is a r Training modules are be which is near completion several modules into or partnership with Soil Hu Pennsylvania Soils" and Sediment Evaluation at November 2022. Prese provided to the conserve Watershed Specialist con U223 Update: The Introduction to the training was finalized an comprehensive webina also conducted as part of more in-depth trainings Perspective training are Staff also conducted a f focused on comprehensive Workgroup.</li> <li>Staff presented the Gui to legacy sediment issu addition, staff participa standards for compensation <b>2024 Update:</b> Training modules contin continues toward the b</li> </ul>
2.1.7F	Develop mapping	Make database of breached dams	DEP	Statewide	Beginning 2022	Making database and mapping	Wetland program staff	GIS technology support	regulations and permits restoration. 2022 Update: This is a r
	resources of dam inventory breach locations for the	available in a publicly accessible GIS application.				results available for public use	F. 05. 011 51011		<b>2023 Update:</b> Over 4,000 breached da Database that represen

# a new milestone for 2022-2023.

being developed for PA's Clean Water Academy, the first of tion. The plan is to build out a full curriculum that includes one comprehensive training course. For example, in Hub, a soils training course entitled "Foundations of nd, in partnership with LandStudies, "A Case Study – Legacy at Oil Creek" were published to the Clean Water Academy in esentations on aquatic resource restoration were also ervation districts through the annual Conservation District conference.

he Guiding Principles of Aquatic Ecosystem Restoration and posted to the Clean Water Academy in 2023. Two nars (DEP and CCD) and four summary presentations were rt of the development and roll-out of this training. Additional ngs on Watershed Alterations and Effects and Practitioners are underway in 2023 and expected to be final in 2024.

a field tour and presentations on legacy sediment removal ensive ecosystem restoration to the Mid Atlantic Wetland

iuiding Principles for Aquatic Ecosystem Restoration applied sues at the National Stream Restoration Conference. In pated in various conference initiatives related to performance nsatory restoration requirements.

ntinue to be developed for PA's Clean Water Academy. Work e build out of a full curriculum that includes training for nitting, as well as aquatic resource science, including

a new milestone for 2022-2023. This effort is ongoing.

dams were geo-located from Pennsylvania's Dam Inventory ents over 100 years of program information. Work is on-

Action #	Description	Performance Target(s) and	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	
	purpose of targeting legacy sediment impaired wetlands, streams and floodplains								going to present the dat user- friendly manner v <b>2024 Update:</b> After the 2023 update t going to present the dat user- friendly manner v priority efforts this year
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 r Workshop with multiple 2023 Update: Coordination and devel efforts are active and or comprehensive aquatic are being developed. Ir met with the new Mid-A comprehensive restorat Pennsylvania continues passage projects. For et habitats have been reco September 2023. More https://www.fws.gov/st pennsylvania#:~:text=O ss%20of%20this%20pro 2024 Update: Coordination and devel efforts continue. Engag aquatic resource strates in the nation for dam res
2.1.9F	Work with SCC to promote their 2022 Stream Crossing Replacement Policy, Design and Installation Standard, and Technical Manual (cross-	Promote stream crossing replacement designs that incorporate stream simulation through the structure, promote bank-full width designs to improve flow and	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.	2022 Update: This is a r SCC annual meeting to e of bank-full width culve maintenance costs, and permitting which allows with PA Law. 2023 Update: Coordination of addition going. One in-depth an

data to the public for targeting legacy sediment removal in a r via DEP's website.

e to Pennsylvania's Dam Inventory Database, work is ondata to the public for targeting legacy sediment removal in a r via DEP's website. Progress was slow due to several other ear.

a new milestone for 2022-2023. 2022 Dam Removal ple partners was completed.

velopment of improved strategies of dam removal program on-going. Engagement with long time partners to develop tic resource strategies has begun and demonstration projects In October 2023 Program Staff, as well as BWRNSM staff d-Atlantic Regional Director for American Rivers to discuss ration strategies related to dam removal projects. es to be a leader in the nation for dam removal and fish r example, more than 250 miles of stream and aquatic econnected when the Oakland Dam was removed in ore information can be found at the link, here: r/story/2023-10/largest-dam-removal-=Over%20time%2C%20the%20dam%20became,the%20succe project

velopment of improved strategies of dam removal program gagement with long time partners to develop comprehensive tegies also continues. Pennsylvania continues to be a leader removal and fish passage projects.

a new milestone for 2022-2023. In 2022, DEP presented at to explain permitting considerations and promote the benefits vert designs, including improved flood resiliency, lowered nd structure longevity. DEP highlighted inherent flexibility in two for the best possible on-the-ground solutions consistent

ional DEP training and education and outreach has been onand field training session was held for DEP staff. Additional

Action #	Description	Performance Target(s) and	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	
	benefit with building flood resiliency and climate change resiliency, while installing structures with lowered maintenance costs and improved lifespan)	aquatic organism passage.						Outreach to public and private sector, consultants, state and local governments.	sessions are being plan to stream crossing stand <b>2024 Update:</b> Coordination of additio One in-depth and field to are being planned. Coor crossing standards acro
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 r revamping of DEP's Cha interactive tool to help debris, trash, or stream when a permit may be a companion to the "Gu booklet that was publis not properly maintained sedimentation within a materials, increased ad 2024 Update: The "Guidelines to Main initially published in No valuable tool, especially properly maintained by sedimentation within a materials, increased ad The Bureau of Waterwa Encroachment and Train Determinations Training hour training was done will give participants a b in Pennsylvania and at t three components that hydric soil. This training programs related to we Wetland Delineation M training is not a substitu educational information

anned. Coordination of common web-page contents related andards across agencies is on-going.

tional DEP training and education and outreach continues. d training session was held for DEP staff. Additional sessions pordination of common web-page contents related to stream cross agencies is on-going.

a new milestone for 2024-2025. In addition to a complete chapter 105 permitting website, DEP has released an lp owners of bridges and culverts and others wanting to do ambed material removal in streams to better understand be required. The tool goes into more detail and is designed as Guidelines to Maintaining Streams in Your Community" lished in November of 2018. Where bridges and culverts are ned by the owner, there can be problems with erosion and and outside the channel, buildup of debris and bedload adverse flooding effects, etc.

aintaining Streams in Your Community" booklet that was November of 2018 has been updated and continues to be a ally after flooding events. Where bridges and culverts are not by the owner, there can be problems with erosion and and outside the channel, buildup of debris and bedload adverse flooding effects, etc.

ways Engineering and Wetlands' Division of Wetlands rainings launched a NEW Introduction to Wetland ing Course in Clean Water Academy. The comprehensive 8ne in collaboration with several other agencies. This training a basic understanding of how to properly recognize wetlands at the conclusion they will be able to identify and evaluate the at make up a wetland; hydrology, hydrophytic vegetation and ng was designed specifically to meet DEP's regulatory wetland identification and the 1987 Army Corps of Engineers Manual and the associated Regional Supplements. This citute for field experience and is meant to be foundational ion. These lessons do not cover all wetland topics, terms, or

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
						•			other information but an public.
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.	2020 Update: DEP continues to assist I Penn State Extension to will be published to DEP The Pennsylvanian's Gui published in December 2 2021 Update: DEP continues to assist I guidance on stream rest Academy training). Addi MS4 Forums for municip forums gave municipalit lessons learned about B posted for permittees to Numeric Milestones, sul reported urban stream r permittees to the Chesa communities receive fur Implementation Grant p Reduction Plans and Cou 2022 Update: DEP continues to engage projects. DEP coordinate series of short training v These videos have been videos is to provide perr the BMPs in their PCSM coordination with PACD 2023 Update: In addition to the web-b website, DEP continues provide feedback on pro
									2024 Update:

are meant to provide relevant training for DEP and the

st MS4s with permit implementation. DEP has worked with to produce "Urban Stormwater Basics" training courses that DEP's Clean Water Academy for public use.

Guide to Permitting for Watershed Improvement Projects was er 2020.

st MS4s with permit implementation. DEP developed estoration crediting (crediting checklists and Clean Water dditionally, DEP coordinated with EPA to present a series of icipalities located in the Chesapeake Bay Watershed. These alities the opportunity to learn from each other and share t BMP project implementation. All of these presentations are s to reference on Clean Water Academy. As shown in the submitted progress through 2021 shows an increase in m restoration, due to increased reporting from MS4 esapeake Bay Watershed Model. Additionally, MS4 funds through the Growing Greener Plus and CAP at programs to install BMPs that are identified in Pollutant Countywide Action Plans.

age with permittees to provide comments on proposed BMP ated with PACD through a "mini-grant" program to develop a g videos on the O&M and inspection of three BMP types. en posted to Clean Water Academy. The intent of these ermittees guidance for assessing the maintenance needs of M BMP inventories. DEP intends to continue this CD as funding and staffing allows.

b-based training and guidance documents available on DEP's es to engage with permittees to answer questions and proposed BMP projects.

Action #	Description	Performance Target(s) and	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	
<u>,</u>									DEP's Bureau of Clean W municipal stormwater m Pennsylvania Municipal Pennsylvania Society of Site Inspector training pu partners; one course wit maintenance of post-cou control measures (SCMs 1,000 members of the p
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				<ul> <li>2020 Update: DEP has been in discussi projects that may utilize agricultural sector.</li> <li>2021 Update: DEP continues to respond projects within the expand has scheduled weekly probring their proposed pro- meetings as well as the within the expand has scheduled weekly probring their proposed pro- meetings as well as the within the expand has scheduled weekly probring their proposed pro- meetings as well as the within the expandation regarding the https://files.dep.state.pro- Stormwater/MS4_FAQ.pro- 2022 Update: DEP continues to respond projects within the expandobligations of their PRPs</li> <li>2023 Update: DEP continues to answer implementing BMPs with the conditions of FAQ #6 successful in generating goes above and beyond requirements.</li> <li>2024 Update: DEP continues to respond projects within the expandobligations of their PRPs</li> </ul>

Water conducted outreach events on current and future management during 2024, including sessions with the al Authorities Association, Villanova University, and the of Professional Engineers. DEP launched its Qualified Visual g program with the assistance of its conservation district within the program is devoted to the construction and construction stormwater management (PCSM) stormwater Ms). To date, the program has been taken by approximately e public.

ssions with partners in Lancaster County for several potential ize the flexibilities DEP has provided MS4s to work with the

ond to inquiries from permittees looking to implement BMP panded opportunity areas. DEP Southcentral Regional Office pre-application meetings for York and Lancaster counties to projects and includes their MS4 permitting chief in those e Waterways and Wetlands Program staff. More the MS4 flexibilities is available under FAQ #69 at: .pa.us/Water/BPNPSM/StormwaterManagement/Municipal Q.pdf

ond to inquiries from permittees looking to implement BMP panded opportunity areas to meet the load reduction Ps.

ver project specific questions from permittees interested in vithin the expanded opportunity area. In addition to meeting #69, expanded opportunity area projects that have been ng MS4 credit have demonstrated that the proposed project nd what is required by all other applicable regulatory

ond to inquiries from permittees looking to implement BMP panded opportunity areas to meet the load reduction Ps.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
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				<ul> <li>2020 Update: MS4s submitted annual incorporate flexibilities a</li> <li>2021 Update: DEP strongly supports jo other MS4 permit obliga updated this year to incl to guide collaborations, collaborative efforts. CA strengthened partnershit</li> <li>2022 Update: DEP continues to suppor permittee proposing a co appropriate DEP regional stakeholder workgroup f where incentives for col</li> <li>2023 Update: DEP continues to answer implementing collaboration workgroup into the future 2024 Update: DEP continues to answer implementing collaboration new volume managementing proposed PAG-13 Generic comment on January 18</li> </ul>
2.1.4S	Continue dialogue with EPA regarding expanding opportunities for MS4 implementation		DEP, EPA	Statewide	Ongoing				2020 Update: This collaboration with E 2021 Update: DEP continues to have o discussed this topic with

al reports on or before 9/30/2020 and revisions to PRPs to es are possible in the future.

i joint or collaborative efforts for BMP projects to satisfy igations. The Collaboration section of DEP's MS4 website was include recommendations on developing written agreements is, and list examples of permittees who are part of CAP development and implementation has led to ships across sectors.

port collaborative efforts for BMP implementation. Any a collaborative project is encouraged to reach out to the onal office to discuss the collaboration. DEP has formed a up to discuss the next version of the PAG-13 General Permit collaboration will be on the agenda.

ver project specific questions from permittees interested in rative BMPs. DEP is looking at ways to incorporate feedback poration received from the PAG-13 General Permit uture permit.

ver project specific questions from permittees interested in rative BMPs. DEP's Bureau of Clean Water has proposed nent crediting procedures for collaborating MS4s for the neral Permit. The draft PAG-13 will be published for public 18, 2025.

h EPA is ongoing.

e ongoing discussions with EPA on this topic. DEP also has ith county CAP leaders and municipal officials.

Action #	Description	Performance Target(s) and	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	
									<ul> <li>2022 Update:</li> <li>Discussions with EPA on defined urbanized area (data will impact the plan</li> <li>2023 Update:</li> <li>Discussions with EPA are changes to the urban are guidance from EPA.</li> <li>2024 Update:</li> <li>DEP's Bureau of Clean W Stormwater Control Mea published for public com</li> </ul>
2.1.5S	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 provie (UNM) Plan templates to the process of incorpora Multiple counties have of pollinator meadows from 2023 Update: DEP worked with county Maryland. Several counties have on County Conservation Lar National Park Service on In addition, Pennsylvania Industry developed a ne which has also been shar public audience focused Newsletter: https://www.agriculture tter.pdf Video for Homeowners:
									2024 Update: Template established for Adams C homeowner nutrient ap

on this topic are ongoing. DEP is awaiting the 2020 Censusea (UA) mapping to determine how any changes to the census lanning area of MS4 permittees in future permit terms.

are on-going. DEP has had preliminary discussion with EPA on areas as a result of the 2020 Census and is awaiting further

Water has proposed expanding the available area for MS4 leasure (SCM) projects in its draft PAG-13 that will be omment on January 18, 2025.

ovided guidance and example Urban Nutrient Management is to local CAP Coordinators in one-on-one meetings to begin prating UNM Plans into county nutrient reduction strategies. e drafted UNM Plans as part of the establishment of rom turf and farmland.

nty partners to develop UNMs, utilizing examples from

created Urban Nutrient Management Plans as part of larger Landscaping Programs. Adams County is working with the on the development of a UNM for Gettysburg National Park.

nia Department of Agriculture (PDA) Bureau of Plant newsletter – "Be Green While Protecting Our Streams" – hared with MS4s. They also published a short video for the ed on fertilizer use.

ure.pa.gov/Plants Land Water/Fertilizer/Documents/Newsle

rs: <u>PAcast</u>

te for an Urban Nutrient Management Plan has been s County and approved by DEP to document commercial and applications in developed lands. Adams County is continuing

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									to work with the Natior management plan for G
2.1.6S	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 GCS. BMPs identified in the r feedback provided, then the BMPs (such as Urba Manual, although it was publication. <u>EPA annou</u> conducted by the partn turfgrass management a 2023 Update: No further update for 2 2024 Update: No further update for 2
Section 3	, Countywide Acti	ons							
3.1.1	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.	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 contractor, Communication and Engagement Workgroup, External Contractor, DEP	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	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 Region Southcentral regions to support to the Tier 3 an and extensive outreach commissions, and count The DEP conducted a Re staff on the WIP and CA weekly calls to address Tier 3 and 4 counties, as

ional Park Service on the development of an urban nutrient r Gettysburg National Park.

CSAA BMP Manual to CBPO for consideration of crediting the e manual toward nutrient and sediment reductions. Based on here is no current "crosswalk" to credit the implementation of ban Nutrient Management) as identified in the GCSAA BMP was thoroughly vetted by the regulatory agencies prior to <u>nounced a partnership with the GCSAA</u>, however further work rtnership is needed to fully account for golf course and nt across the watershed.

2023. Awaiting more work to be done by the CBP.

2024. Awaiting more work to be done by the CBP.

ional CAP Support Teams in the Northeast, Northcentral, and to aid DEP Chesapeake Bay Office (DEP) in outreach and and 4 Counties. With their support, DEP conducted webinars ch to Tier 3 and 4 conservation districts, planning unty commissioners.

Region CAP Support Team Workshop to educate DEP region CAP project. DEP and the Region CAP Support Teams conduct ss concerns and questions that arise from the outreach to the , as well as calls with county leaders.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	•		Region CAP Support Teams			Funding for CAP implementation			The DEP created an exter Water Academy that ser Tier 3 and 4 counties.
									<b>2021 Update:</b> The DEP and the DEP Re counties to secure their 100% participation from
									The DEP conducted the due to COVID-19 constra on the Phase 3 WIP, what are available, and how t
									The Tier 3 and 4 FAQs ar Technical, CAP Grant, ar documents where all qu
									The DEP created three re and 4 counties, and CAP from the counties and m resources.
									DEP developed a CAP Pr and contacts and shares system.
									DEP maintains and conti CWA. Given the volume CWA materials for a mo
									<b>2022 Update:</b> DEP meets monthly with implementation project and to provide an updat
									DEP provided Implemen and 4 counties to help c CAPs.

ctensive library of resources and courses on DEPs Clean serves as an information and document sharing portal for the

Region CAP Support Teams met with the Tier 3 and 4 eir participation in the development of a CAP. This led to a form the Tier 3 and 4 Counties.

te 2<sup>nd</sup> Coordinator Training Academy in a fully virtual format traints for the Tier 3 and 4 counties to educate the counties what the CAP development process looks like, what resources v to write their CAPs.

and Coordinator Grant FAQs were expanded to CAP and County CAP FAQs, and were utilized as ever-expanding questions from the counties are addressed.

e resource email accounts: Pilot and Tier 2 counties, Tier 3 AP Grants. This allows the DEP to better track all questions I maximizes efficiency in response with limited staff

Project Tracking spreadsheet to track projects, milestones, es it with internal team members using an easy to access

ntinually updates the extensive library of materials on the ne of materials available to counties, DEP reorganized the nore user-friendly experience.

ith each Tier 3 and 4 county groupings to discuss ct statuses, to problem solve any hurdles that have arisen, lates and announcements from DEP.

entation Workshops, organized by DEP Region for the Tier 3 o counties get set up for successful implementation of their

Action #	Description	Performance Target(s) and	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	
									DEP Region CAP Suppor
									facilitating the monthly
									with press announceme
									The Tier 3 and 4 countie provided feedback to as
									<b>2023 Update:</b> DEP meets monthly with implementation project and to provide an updat
									DEP hosted 6 Webinar V to county partners.
									Tier 3 and 4 counties co feedback to assist count counties to share their s
									<b>2024 Update:</b> DEP meets monthly with discuss implementation arisen, and to provide a
									DEP hosted 4 Webinar V to county partners.
									Tier 2 counties complete to assist counties in ider to share their successes progress reporting. DEP to their annual progress
3.1.1(i)	Create and utilize living Frequently Asked Question documents for technical, coordinator, and grant questions from CAP county		DEP	Chesapeake Bay watershed	Ongoing				<b>2022 Update:</b> DEP created and regular Frequently Asked Quest FAQs are updated with to share consistent mes generic and go through

ort Teams continue to support Tier 3 and 4 counties by ly meetings, assisting with permitting questions, assisting nents, and general topic specific help.

ties completed their first Annual Progress Report. DEP assist the counties with documenting all of their good work.

ith each Tier 3 and 4 county groupings to discuss ct statuses, to problem solve any hurdles that have arisen, lates and announcements from DEP.

r Wednesday meetings to provide education and information

completed their first 2-year milestone update. DEP provided inties in identifying updates to their CAPs, and in encouraging r successes.

with each of its county groupings (Pilot, Tiers 2, 3, and 4) to on project statuses, to problem solve any hurdles that have an updates and announcements from DEP.

r Wednesday meetings to provide education and information

eted their 2-year milestone updates. DEP provided feedback lentifying updates to their CAPs, and in encouraging counties es. Pilot, Tier 3, and Tier 4 counties completed their annual EP provided feedback to assist counties in identifying updates ess and encouraged counties to share their successes.

larly maintains three (grants, technical, and coordinator) estions (FAQ) Documents to assist CAP coordinators. The h questions that are posed by the counties, as well as by DEP essaging and answers. The questions and answers are made th an internal review process before they are released.

Action #	Description	Performance Target(s) and	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	
	partners and provide access to CAP coordinators to assist with disseminating information broadly and consistently.								Each time an FAQ is upd Support Teams through on the CWA Resources T <b>2023 Update:</b> DEP continues to mainta Grant. Questions are get wishes to share. DEP continues to share to Clean Water Academy R <b>2024 Update:</b> DEP continues to mainta Grant. Questions are get wishes to share. DEP continues to share to clean Water Academy R published to the docume
3.1.2	Conduct outreach via webinars and one-on-one meetings to provide support to the counties through the implementation process.	Tier 3 & 4 county regional groupings continue CAP implementation utilizing their assigned external coordinator and DEP. the DEP Region CAP Support Team.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor, DEP Region CAP Support Team	Tier 3 & 4 counties	Ongoing	State staffing support No new dedicated funding streams County staffing issues may hinder county abilities to utilize all funds that are available due to staff concerns, based on experience with Pilot and Tier 2 counties.	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	<ul> <li>2020 Update: The DEP Regional Support conducted several outree present the Countywide troubleshoot issues, present The Susquehanna River county to review their Co questions.</li> <li>DEP has developed seve Tier 3 and 4 counties.</li> <li>The Tier 3 and 4 countie groups will share a coord position have been subr</li> <li>2021 Update: The Tier 3 and 4 countie counties completing ind</li> </ul>

pdated, it is shared with the county partners and Region CAP gh an established weekly email update, and is also updated s Tab.

ntain three FAQ documents: Coordinator, Technical, and generated by county partners as well as information DEP

e updated FAQs via the weekly Friday email as well as the / Resources tab.

ntain three FAQ documents: Coordinator, Technical, and generated by county partners as well as information DEP

re updated FAQs via the weekly Friday email as well as the y Resources tab. A total of three new FAQs were created and ments.

oport Teams and the DEP Chesapeake Bay Office has atreach meetings with each of the 26 Tier 3 and 4 counties, to ide Action Planning (CAP) process, answer questions, present materials, and work through next steps.

er Basin Commission (SRBC) conducted meetings with each r Clean Water Technical Toolbox and answer technical

veral Tier 3 and 4 and Coordinator Grant FAQs to assist the

ties have organized into 10 regional groups. Each of these 10 ordinator position. Grant applications for each coordinator bmitted.

ties have completed and submitted their CAPs, with 30 ndividual CAPs and 4 counties completing a regional CAP.

Action #	Description	Performance Target(s) and	Responsible Party(jess) 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	
					1				The DEP, with assistance comprehensive timeline strategically planning the
									DEP Chesapeake Bay Off webinars designed to me provide trainings and op and DEP Region CAP Sup monthly calls with the co the counties began final implementation. The Top as needed.
									The Susquehanna River I through CAST as they de the anticipated results, a recommendations. Thes may want to focus their
									<b>2022 Update:</b> DEP transitioned the Tie webinars to the establish 2 counties) as all countie Administration and Acco conducted monthly calls implementation project and to provide an update
									The DEP, with assistance comprehensive timeline strategically planning the and Two-Year Milestone
									The Susquehanna River through CAST as they de presentations showing t WIP workgroup recomm for where they may wan
									<b>2023 Update:</b> DEP Region CAP Support counties. These teams and Accountability (WAA

nce from Consulting with a Purpose, developed a ne with key benchmarks identified to assist the counties with through and past the CAP planning process.

Office staff established biweekly Touchbase Tuesday meet with the coordinators and county lead entities to opportunities for collaboration. DEP Chesapeake Bay Office support Teams transitioned from the Touchbase Tuesdays to e county groupings to provide more individualized support as nalizing their CAPs. These monthly calls will continue through Touchbase Tuesday calls are being utilized for larger trainings

er Basin Commission ran the counties' BMP scenarios developed their CAPs, and provided presentations showing s, as well as a comparison to the state WIP workgroup lese comparisons gave the counties feedback for where they eir BMP efforts.

Tier 3 and 4 counties from the biweekly Touchbase Tuesday lished biweekly Webinar Wednesdays (used by Pilot and Tier aties were now in implementation. DEP Watershed eccountability (WASS) and DEP Region CAP Support Teams alls with all counties/county groupings to discuss ct statuses, to problem solve any hurdles that have arisen, lates and announcements from DEP.

nce from Consulting with a Purpose, developed a ne with key benchmarks identified to assist the counties with through implementation, grants, Annual Progress Reporting ne reporting.

er Basin Commission ran the Tier 2 counties' BMP scenarios developed their two-year milestones, and provided g the anticipated results, as well as a comparison to the state nmendations. These comparisons gave the counties feedback rant to focus their BMP efforts for the next two years.

ort Teams were restructured to best support the CAP s are now comprised of the DEP Watershed Administration (AAS) project advisor, a DEP Watershed Manager, and a DEP

Action #	Description	Performance Target(s) and	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	
									Conservation District Field Bureau of Watershed Re DEP Region CAP Support groupings to discuss im hurdles that have arised The Susquehanna River the Pilot and Tier 3 and milestones and provide counties feedback for we two years. DEP, with assistance from timeline with key bench planning through imple Year Milestone reportion <b>2024 Update:</b> The DEP Watershed Add DEP Watershed Manage have all continued to pri- calls to discuss implement announcements from D The Susquehanna River scenarios for the Tier 2 Countywide Action Plan DEP continued to host We the month. These webing from local, state, and fer from DEP.
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.	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 &amp;</i> 2 columns below	2020 Update: Pilot Counties have beg (CAPs). Counties were a support CAP implement Lancaster, York, Cumbe Excellence Grant (CEG) Community Clean Wate implementation. Tier 2

Field Representative. All staff report centrally under the DEP Restoration and Nonpoint Source Management. WAAS and port Teams conducted monthly calls with all counties/county mplementation project statuses, to problem solve any sen, and provide updates and announcements from DEP.

rer Basin Commission (SRBC) provided BMP CAST scenarios for and 4 counties to assist development of County two-year ded the anticipated results. These comparisons gave the r where they may want to focus their BMP efforts for the next

from Consulting with a Purpose, developed a comprehensive achmarks identified to assist the counties with strategic alementation, grants, Annual Progress Reporting and Twoting.

Administration and Accountability (WAAS) project advisors, agers, and a DEP Conservation District Field Representative provide support to our county partners through monthly mentation project statuses and provide updates and DEP.

er Basin Commission (SRBC) provided updated BMP CAST 2 counties to assist in their evaluation and update of their lans (CAPs) for the Two-Year Milestone reporting.

t Webinar Wednesday Webinars on the first Wednesday of binars provided county partners with relevant presentations federal partners along with updates and announcements

egun implementation of their Countywide Action Plans e able to apply for CAP Implementation Grant Funds to ntation.

berland and Franklin County received Conservation G) funding to support implementation efforts.

ater Action Plan Coordinators were hired to support 2 counties each hired a Community Clean Water Action Plan

Action #	Description	Performance Target(s) and	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	
		2022-2023 Update:							Coordinator to support
		there will be an							finalizing their CAPs.
		external							
		coordinator							2021 Update:
		designated for each							All counties (Pilot, Tier
		Pilot and Tier 2							counties were eligible t
		county and each							CAP implementation. D
		Tier 3 and 4 county							Implementation Grant
		grouping to assist							grant funds and CBRAP
		with CAP progress							
		and							Conservation Excellenc
		implementation							implementation efforts
		efforts. Focus will							
		be on CAP							Community Clean Wate
		implementation in							implementation and sta
		support of PA's WIP							submitted by counties
		goals. Extensive							Turnelting of the sure of
		staff time will be							Transitioned to one-on
		dedicated to							attention.
		WIP/CAP project							Mahinar Madnacdayay
		management and coordination to							Webinar Wednesdays v group. 2021 webinars i
		support counties in							Finance Center Technic
		CAP							Growing Greener, Secti
		implementation							Implementation Grant
		and to work with							implementation orant
		state action leaders							The Tier 3 and 4 FAQs a
		in supporting this							Technical, CAP Grant, a
		effort. Continued							documents where all q
		expansion of							
		services outlined in							DEP created three reso
		the 2021 Milestone							counties, Tier 3 and 4 c
		Update.							all questions from the o
									staff resources.
		Region CAP Support							
		Teams will continue							DEP developed a CAP P
		to support this							and contacts.
		effort.							
									DEP maintains and con
		External							CWA. Given the volume
		coordinators will							CWA materials for a mo
		also continue to be							
		funded.							2022 Update:

ort plan development. Tier 2 counties are in the final stages of

er 2,3,4) have finalized and are implementing CAPs. All e to apply for CAP Implementation Grant Funds to support . DEP is providing nearly \$17.4 million in CAP Coordinator and nt funds for 2022 calendar year (to include EPA Ag and EJ MEB AP funds for BMP Verification).

nce Grant (CEG) funding is also available to support rts in several high loading counties.

ater Action Plan Coordinators continue to support CAP state funding has been committed and funding requests to for 2022.

on-one meetings with counties to provide individualized

s were held as broader topics were raised for the larger s included: Water Quality Monitoring Update; Environmental nical Assistance; BMP Verification Deep Dive with EPA; ction 319 and NFWF MEB Grant Funding Opportunities; CAP nt Guidance; BMP Verification, Round 3.

s and Coordinator Grant FAQs were expanded to CAP , and County CAP FAQs, and were utilized as ever-expanding questions from the counties are addressed.

source email accounts for CAP coordination: Pilot and Tier 2 I counties, and CAP Grants. This allows the DEP to better track e counties and maximizes efficiency in response with limited

Project Tracking spreadsheet to track projects, milestones,

ontinually updates the extensive library of materials on the me of materials available to counties, DEP reorganized the more user-friendly experience.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(
							Financial	Financial	All counties (Pilot, Tier 2, for CAP Implementation over \$12 million in CAP C calendar year. One-on-one meetings wi Staff are working with st recommendations to end Webinar Wednesdays co webinars included: 03-09-2022 Agriculture E 05-11-2022 CAP Impleme 06-01-2022 Countywide 06-08-2022 FieldDoc Wa 06-22-2022 Partners, Pro Franklin and Lancaster Co 07-13-2022 Countywide 09-28-2022 CAP Grant 20 10-12-2022 Using Techno The CAP Technical, CAP O expanding documents w Resource email accounts managing work and max counties.
									DEP utilized the CAP Proj counties were on track a timeframe. Trainings were added to <b>2023 Update:</b> All counties (Pilot, Tier 2, implemented BMPs fund were verified and report
									All counties applied for C implementation. DEP gra Implementation Grant fu

r 2,3,4) are implementing CAP projects. All counties applied on Grant Funds to support CAP implementation. DEP granted P Coordinator and Implementation Grant funds for 2023

with counties provide individualized attention and support. state and federal agency partners on county programmatic enhance efforts.

continued to address needs across all counties. 2022

- e BMP Verification On Site Stagey and Tools
- mentation Funding Opportunities
- de Action Plan Two-Year Milestone Reporting
- Valkthrough and Update
- Projects, and Progress Behind the Scenes in Clearfield, r Counties
- de Action Plan Annual Progress Reporting
- 2023 Announcement
- hnology to Assist in Conducting BMP Verification

P Grant, and County CAP FAQs were utilized as everwhere all questions from the counties are addressed.

nts continued to be an important administrative tool for aximizing efficiency for limited staff across all of Bay

Project Tracking spreadsheet to assure projects across all k and funds were being spent in the designated 12-18 month

to the Clean Water Academy.

r 2,3,4) continued implementing CAP projects. 176 Inded in whole or in part by the CAP Implementation Grant orted toward Pennsylvania's annual numeric progress.

or CAP Implementation Grant Funds to support CAP granted over \$19.3 million in CAP Coordinator and t funds for 2024 calendar year. A minimum funding

Action #	Description	Performance Target(s) and	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	
									allocation of \$200,000 p provided by the countie
									One-on-one meetings w Staff continue to work w programmatic recomme
									Webinar Wednesdays co
									The CAP Technical, CAP expanding documents w consistent and standard
									Resource email account managing work and may counties.
									DEP utilized the CAP Pro counties were on track a timeframe.
									Trainings were added to
									The Chesapeake Bay Wa Water Gathering of 80 s expand efforts to addres of this meeting was to d Technical and Administr Funding/Multi-Grant Co
									<b>2024 Update:</b> All counties (Pilot, Tier 2
									All counties applied for ( implementation. DEP gr Grant funds for 2025 cal county was continued d partners after the guide
									An updated CAP Implem the first time this year. T on each project being ap decisions during the app

) per county was established due to constructive feedback ties.

with counties provided individualized attention and support. with state and federal agency partners on county mendations to enhance efforts.

continued to address needs across all counties.

AP Grant, and County CAP FAQs were utilized as evers where all questions from the counties are addressed in a ardized manner.

nts continued to be an important administrative tool for naximizing efficiency for limited staff across all of Bay

Project Tracking spreadsheet to assure projects across all ck and funds were being spent in the designated 12-18 month

to the Clean Water Academy.

Natershed Restoration Division hosted its first ever Clean O state program action leaders and county partners to ress hurdles and barriers to implementation. One outcome o develop progress teams for the three identified focus areas: strative Assistance; Staff Building/Staff Retention; and Coordination. Teams will begin work in 2024.

r 2,3,4) continued implementing CAP projects.

or CAP Implementation Grant Funds to support CAP granted \$24 million in CAP Coordinator and Implementation calendar year. A minimum funding allocation of \$200,000 per I due to positive feedback we received from our county deline was established in 2023.

lementation Grant application was established and used for ar. This new application requested more detailed information g applied for, allowing DEP staff to make more informed application review process.

Action #	Description	Performance Target(s) and	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	
									All CAP funded impleme included in DCNR's gran One-on-one meetings, in emails, and monthly ne to support and provide implantation.
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 2024 Update: In an October 2023 Clea program action leaders, project implementation staff building and reten January 2024, three tea nearly 1,000 people how three challenge areas. T federal entities includin public and private sector This collaborative effort meaningfully address cl implementation. Memb their recommendations summarized in preparat Water Gathering will oc and federal policymake their recommendations level needs and challen
3.1.4	Seek staffing to support this large-scale coordination and support effort.	Facilitation support and marketing services will continue with Consulting with a Purpose and Green Words Consulting in support of extensive WIP and CAP outreach and engagement needs.	DEP, Technical Coordinator, Bay Division, Agencies Outreach, Communication and Facilitation contractors, External Contractors	34 PA Bay Counties	Begins January 2020	State staffing support Internal and External Coordination	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 1</i> columns below	See Funding and Resources Section, <i>Resources</i> <i>Needed Phase 1</i> columns below	2020 Update: Each Pilot County and T Stewardship Funds to h support CAP implement The Community Clean V released for Tier 3 and 4 Two additional Chesape 2021 Update:

mentation projects were collected and organized to be rant viewer website.

s, monthly Webinar Wednesdays, weekly Friday update newsletters all continued as avenues that DEP WAAS staff use de useful resources to our county partners during

ne for 2024-2025.

lean Water Gathering of 80 county, state, and federal ers, three priority action area challenges to clean water on were identified: technical and administrative assistance, ention, and funding and multi-grant coordination. Since eams of made up of more than 60 individuals dedicated nours to develop actionable recommendations to address the s. Teams were made up of individuals from county, state, and ding program staff, CAP Coordinators (represented by both ctor organizations), and nonprofit program staff.

ort resulted in the development of 25 actionable strategies to a clean water challenge areas and advance clean water project mbers of the three teams met in November 2024 to share ons with one another. The 25 strategies were catalogued and ration for a second Clean Water Gathering. The second Clean occur in January 2025 where teams will engage with state kers, program leaders, and other action leaders to advance ons as part of a multi-level collective approach addressing high enges.

d Tier 2 County received \$100,000 in state Environmental hire a Community Clean Water Action Plan Coordinator to entation.

n Water Action Plan Coordinator application has been d 4 counties.

peake Bay Office Coordinators were hired to support efforts.

Action #	Description	Performance Target(s) and	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	
									External coordinators had county and each Tier 3 a implementation efforts. Extensive facilitation sup contracts with Consultin
									of extensive WIP and CA implementation. Some Report Summary and th Report. Both of these d <u>Progress</u> website.
									<b>2022 Update:</b> The Chesapeake Bay Off and Nonpoint Source M Division was created tha Accountability and Adm enhancements to the Bu Managers and Conserva
									Funding continued to su with CAP planning and i
									Extensive facilitation su contracts with Consultin of extensive WIP and CA implementation. The 20 can be found on <u>PA's Pla</u> published: <u>PADEP-CAP-T</u> <u>CAP-Testimonial-Hando</u>
									for county and state par informational pieces inc Implementation in Penn Pennsylvania".
									<b>2023 Update:</b> A new Management Teo to specifically handle ad Additional staff needs h objectives within the Ch
									Funding continued to su with CAP planning and i

have been hired by county partners for each Pilot and Tier 2 3 and 4 county grouping to assist with CAP planning and ts.

support and marketing services were utilized in 2021 through ting with a Purpose and Water Words That Work in support CAP outreach and engagement needs during planning and ne examples of these efforts include the 2020 Progress the 2020 Healthy Waters Healthy Communities Annual e documents are published on the <u>Tracking Pennsylvania's</u>

Office expanded into the Bureau of Watershed Restoration Management in fall 2022. A Chesapeake Bay Restoration that includes two sections dedicated to Bay work: Watershed dministration and Chesapeake Bay Partnership. Staff Bureau include centralizing region-based Watershed rvation District Field Reps who will support Bay efforts.

support external county-based CAP coordinators to assist d implementation efforts.

support and marketing services were utilized in 2022 through ting with a Purpose and Water Words That Work in support CAP outreach and engagement needs during planning and 2021 Healthy Waters Healthy Communities Annual Report Plan website. County partners testimonial pieces were P-Testimonial-Handout-06102022 (state.pa.us) and PADEPdout-02192021.pdf (state.pa.us) to provide outreach pieces partners to use with their stakeholders. Other new ncluded "Supporting Local Countywide Action Plan nnsylvania" and "Supporting Local Clean Water Planning in

Technician administrative staff position was created and filled administrative responsibilities, including grants and invoicing. Is have been identified to fulfill NPS and grant program Chesapeake Bay Watershed.

o support external county-based CAP coordinators to assist ad implementation efforts.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									<ul> <li>Extensive facilitation sup contracts with Consulting in sup needs. The 2022 Healthy includes county partner website.</li> <li>The monthly Healthy W state, federal, public and 2024 Update:</li> <li>The Management Techr Program Analyst to add responsibilities, including identified to fulfill NPS a Watershed.</li> <li>Funding continued to su with CAP planning and i Extensive facilitation sup needs. The 2023 Healthy includes county partner website.</li> <li>The monthly Healthy W state, federal, public and i Extensive facilitation sup needs. The 2023 Healthy includes county partner website.</li> </ul>
3.1.5	Delineate and communicate Chesapeake Bay Accountability and Chesapeake Bay Partnership staff roles and responsibilities to county partners for more effective and efficient	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	DEP	Chesapeake Bay watershed	February 2022				<ul> <li>2022 Update: This is a n Staff enhancements to t Managers and Conserva</li> <li>Internal coordinators ha points of contact for CA</li> <li>A handout was provided responsibilities.</li> <li>2023 Update:</li> </ul>

support and marketing services were utilized in 2023 through lting with a Purpose and Water Words That Work and Clean upport of continued WIP and CAP outreach and engagement lthy Waters Healthy Communities Annual Report, which her testimonials and stories, can be found on <u>PA's Plan</u>

Waters newsletter highlighting PA activities across local, and private partners can be found here: <u>Newsletter (pa.gov)</u>

hnician administrative staff position was upgraded to a Id project management tasks to administrative ling grants and invoicing. Additional staff needs have been S and grant program objectives within the Chesapeake Bay

support external county-based CAP coordinators to assist d implementation efforts.

support and marketing services were utilized in 2024 through lting with a Purpose and Water Words That Work and Clean upport of continued WIP and CAP outreach and engagement lthy Waters Healthy Communities Annual Report, which her testimonials and stories, can be found on <u>PA's Plan</u>

Waters newsletter highlighting PA activities across local, and private partners can be found here: <u>Newsletter (pa.gov)</u>

new milestone for 2022-2023.

o the Bureau include centralizing region-based Watershed vation District Field Reps who will support Bay efforts.

have been assigned to Tier 1, 2, 3, 4 counties as specific CAP issues, questions and reporting.

led to county partners to provide details of staff roles and

Action #	Description	Performance Target(s) and	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	
	delivery of services	two Chesapeake Bay-focused sections.							Internal coordinators ha CAP issues, questions, in Conservation District Fie these efforts at the regi A new Management Teo to specifically handle ad The Bay Partnership sec and reporting, quality as <b>2024 Update:</b> The Management Techr and project management responsibilities, adding The final vacancy in the Specialist is managing m In 2024 WAAS became ff County partners as well stable environment for implement BMPs. The re Coordination Education the section to perform to newsletters, and weekly
Section 9,	Climate Change								
9.1.1C	Pennsylvania Climate Impacts Assessment	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 Impacts Assessment for Pennsylvania is conducted every 3 years, per Act 70 of 2008. The most	DEP	Statewide	Ongoing				<ul> <li>2022 Update: The 2021 Pennsylvania This is a new milestone</li> <li>2023 Update: The 2024 Pennsylvania development.</li> <li>2024 Update: The 2024 Pennsylvania be published in the nea</li> </ul>

have continued as specific counties' points of contact for , invoicing and reporting. Watershed Managers and Field Reps continue to play an important support role in gional level.

echnician administrative staff position was created and filled administrative responsibilities, including grants and invoicing.

ection added new staff members who oversee data analysis assurance and federal grant management.

hnician staff position was upgraded to a Program Analyst eent responsibilities were added to administrative g programmatic duties to grants and invoicing duties. ee CB Partnership Section was filled. The new Water Program multiple large federal grants.

e fully staffed leading to a more stable environment for our ell as a clear delineation of roles within the section. The more or our County partners strengthened their ability to e roles assigned to the three Water Program Specialist were on Outreach, Technology, and Technical. These roles allow in the day-to-day tasks like, 1 on 1 county meetings, kly emails more efficiently.

a Climate Impacts Assessment was released in May 2021. e for 2022-2023.

ia Climate Impacts Assessment is currently under

a Climate Impacts Assessment has been completed and will ear future.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		recent Pennsylvania Climate Impacts Assessment can be found on DEP's website: Impacts 2022-2023 Update: compilation of 2019 GHG Inventory data will begin. The next Climate Impacts Assessment is anticipated to be released in 2024.							
9.1.2C	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 2008. The most recent Pennsylvania Climate Action Plan can be found on DEP's website: <u>PA</u> <u>Climate Action Plan</u>	DEP	Statewide	Ongoing				2022 Update: The 2021 Pennsylvania is a new milestone for 2023 Update: The Act 70-required 20 development, as is the 2024 Update: The Act 70-required 20 near future.

ania Climate Action Plan was released in September 2021. This for 2022-2023.

d 2024 Pennsylvania Climate Action Plan is currently under the CPRG (PCAP).

2024 Pennsylvania Climate Action Plan will be published in the

Action #	Description	Performance Target(s) and	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	
9.1.2Ci	Participate in the Climate Pollution Reduction Planning Program.	Pennsylvania has received a \$3M Inflation Reduction Act-Funded grant to conduct Climate 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.	DEP	Statewide	Begins March 2024				Lindsay Byron 2023 Update: This is a new milestone for 2024 Update: The Priority Climate Action Measures were selected Feedback heard outreach, indust Magnitude of GI Feasibility for im Benefits to envire Air pollution red In July, PA was awarded Sector Emissions in PA). and incentives for small, Pennsylvania. The due date for the Corrend of 2025. The plan but sectors. It expands on the analysis, and workforce for implementation and
9.1.3C	Local Climate Action Program	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. The Local Climate Action Program provides technical assistance to local governments to develop local	DEP	Statewide	Began 2020				<ul> <li>2022 Update:</li> <li>Currently, 12 local gover fiscal year. Draft climate June 2023. DEP is workin years.</li> <li>2023 Update:</li> <li>DEP Energy Program Off Sustainability Institute to program year, all 12 of t have produced final program year are continuing to work with</li> <li>2024 Update:</li> </ul>

e for 2024-2025.

- ction Plan was submitted to EPA on March 1, 2024. ed to be included in the PCAP based on:
- rd from interested parties (local governments, community
- ustrial organizations, PA agency outreach)
- GHG reduction potential
- implementation by 2030
- vironmental justice communities
- eduction benefits
- ed \$396 million for the RISE PA program (Reducing Industrial
- A). This program will provide a competitive grants program
- all, medium, and large-scale decarbonization projects across

Comprehensive Climate Action Plan has been moved to the builds on the 2024 CAP – GHG reduction measures across the co-benefits analysis, environmental justice/equity ce analysis. It also includes mapping to funding opportunities and analysis of authority to implement measures.

vernments are participating in the program for 2022/2023 ate action plans are due from participating municipalities in king to find a partner to take on the program for future

Office (EPO) is now collaborating with Penn State e to deliver the LCAP program. Over the course of the full of the participants completed greenhouse gas inventories, 10 rogress reports or draft Climate Action Plans, and two of the nuing with the LCAP program into the next cohort. Several of nave produced climate action plan drafts are planning on th DEP in a CAPstone project to fully complete/adopt them.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		greenhouse gas inventories and climate action plans. More information about the program can be found on DEP's website: Local <u>Climate Action</u> <u>Program</u>							The local government of State Sustainability on A have been working to co developed over the cou program have been pre government partners st December 9 <sup>th</sup> . Work will begin on draft upcoming spring semes
9.1.4C	DEP Energy Programs Office (EPO) Clean Energy Program (CEP) 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. The CEP Plan is intended to guide EPO in fulfilling its obligations to support energy conservation and efficiency, advance clean energy technologies, and provide energy security and resilience while improving the environment and health of Pennsylvanians through education, outreach, funding, and technical support. More	DEP	Statewide	Ongoing				2022 Update: DEP released the CEP PI Department goals and p EPO is developing an up 2020 and priorities thro by the end of 2022. 2023 Update: EPO released the updat 2024 Update: The Clean Energy Progra and Workforce Develop documenting progress r new priorities for the EF

t cohort for the 24-25 program year kicked-off with Penn n August 26, 2024. The 14 participants of the current cohort o complete their greenhouse gas inventories that were ourse of the fall semester. The students participating in the presenting the results of the work completed to their local is starting with Centre Region Council of Governments on

raft climate action plans and final deliverables in the nester.

 Plan in November 2020 and has used the plan to better align d programs. This is a new milestone for 2022-2023.
 update to the CEP Plan, which will identify successes since prough 2025. The updated CEP is anticipated to be completed

lated CEP in December of 2022.

ogram Plan, Priorities in Energy and Energy Efficiency, Security opment 2023-2025, builds on the 2020 CEP Plan by as made, refining ongoing priorities, and presenting additional e EPO.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		information about the CEP can be found here: <u>Clean</u> <u>Energy Program</u> Plan							
9.1.5C	Annual Pennsylvania Greenhouse Gas Inventory	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. The GHG inventory is updated annually, per Act 70 of 2008, and published mid-year on DEP's website: GHG Inventory nd Engagement Strate	DEP	Statewide	Ongoing	DEP is currently looking for opportunities to shorten the lag time between data availability and report publication.			<ul> <li>2022 Update: The 2021. This is a new milestone data year) is complete, p</li> <li>2023 Update: The 2023 PA GHG Inven December 2022.</li> <li>2024 Update: The 2024 Inventory was Key Findings: <ul> <li>2021 net emissi</li> <li>Statewide net e</li> <li>Sectors with the electricity produ GHG emissions</li> </ul> </li> </ul>
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&d and Water Words That M outreach and engageme geographies, and then w develop county leader in and social media campa These materials built the and 4 outreach. Outreach efforts for CAR DEP maintains a contract support to the Phase 3 M communication templat support local efforts. Wa communication support

21 PA GHG Inventory report (2018 data year) is complete. ne for 2022-2023. The 2022 PA GHG Inventory report (2019 e, published 10/6/22.

entory report (data years 2005-2020) was published

vas published in June.

ssions increased by 8.3% from 2020 t emissions decreased 19% from the 2005 baseline the largest contribution to PA's GHG emissions are industrial, oduction, and transportation; accounts for 83% of all gross ns in 2021

C&E Workgroup: DEP's contractors, Consulting with a Purpose at Work, worked with the C&E Workgroup to identify ment needs for local partners in different sectors and n worked in coordination with the C&E Workgroup to er invitation to participate letters and documents, webinars apaigns that were used to explain the WIP and CAP efforts. the foundation for outreach and engagement for Tier 1, 2, 3

CAP county coordinators:

ract with Water Words That Work to provide communication 3 WIP. Water Words That Work has produced plates, PPTs, brochures and training to county coordinators to Water Words That Work continues to provide ort for state lead efforts.

Office developed talking points document for integrated and state levels. Used by all counties.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									<b>2021 Update:</b> Extensive facilitation sup contracts with Consultin of extensive WIP and CA implementation.
									and news releases high In April 2021, DEP Chesa Chesapeake Bay Summi Pennsylvania Public Broa
									Talking points and prese public participation outl Commission Board of Di Resources Advisory Com Commissioners Associat Program Citizens Adviso
									<b>2022 Update:</b> C&E Workgroup disband its WIP and CAP efforts.
									<b>2023 Update:</b> No updates to report. M
10.1.2A	Utilize facilitation support and marketing services with Consulting with a		DEP		Ongoing				<b>2022 Update:</b> This is a n Extensive facilitation sup contracts with Consultin of extensive WIP and CA implementation.
	Purpose and Green Words Consulting in								DEP's Communications ( and news releases highl
	support of extensive WIP and CAP outreach and engagement								The 2021 Healthy Water <u>PA's Plan</u> website. Coun <u>Testimonial-Handout-06</u> <u>Handout-02192021.pdf</u> state partners to use wit

support and marketing services were utilized in 2021 through ting with a Purpose and Water Words That Work in support CAP outreach and engagement needs during planning and

ns Office provided support through interviews, media events shighting Phase 3 WIP and CAP progress and efforts.

esapeake Bay Office Director participated in the hour-long nit, hosted by Maryland Public Television and shown on roadcasting Station.

esentations were developed and provided through numerous utlets, including meetings hosted by the State Conservation Directors; DEP Agriculture Advisory Board; DEP Water ommittee; DEP Citizens Advisory Council; County iation of Pennsylvania; PA Farm Bureau; Chesapeake Bay isory Committee; and the Chesapeake Bay Commission.

nded as PA moved from planning into full implementation of ts.

Milestone Complete.

a new milestone for 2022-2023. Support and marketing services were utilized in 2022 through ting with a Purpose and Water Words That Work in support CAP outreach and engagement needs during planning and

ns Office provided support through interviews, media events ghlighting Phase 3 WIP and CAP progress and efforts.

ters Healthy Communities Annual Report can be found on unty partners testimonial pieces were published: <u>PADEP-CAP-06102022 (state.pa.us)</u> and <u>PADEP-CAP-Testimonial-</u> <u>df (state.pa.us)</u> to provide outreach pieces for county and with their stakeholders. Other new informational pieces

		Target(s) and	Party(jes) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	<u>Available</u> Technical and Financial	<u>Needed</u> Technical and Financial	
	DEP's Communications Office will provide support through interviews, coordinating media events, and news releases highlighting Phase 3 WIP and CAP progress and efforts.								<ul> <li>included "Supporting La Pennsylvania" and "Sup</li> <li>2023 Update: <ul> <li>Extensive facilitation su contracts with Consulti</li> <li>Words That Work in suneeds.</li> </ul> </li> <li>DEP's Communications Phase 3 WIP and CAP p</li> <li>The 2022 Healthy Wate PA's Plan website.</li> <li>The monthly Healthy W state, federal, public ar</li> <li>2024 Update: <ul> <li>Extensive facilitation su contracts with Consulti</li> <li>of extensive WIP and CAP p</li> </ul> </li> <li>DEP's Communications Support the consulting of extensive WIP and CAP p</li> <li>The 2023 Healthy Wate PA's Plan website.</li> </ul>
10.1.3	Finalize the DEP	Final StoryMap	DEP		Completed		\$20,000		The monthly Healthy W state, federal, public ar <b>2020 Update:</b>
	Web-based StoryMap.		Communication Office		December 2022		,,		Launched story map for Watershed Awareness campaign, and stakeho <u>Waters, Healthy Comm</u>
									2021 Update: Completed in 2020 and Report story map in 20 2022 Update:

Local Countywide Action Plan Implementation in upporting Local Clean Water Planning in Pennsylvania".

support and marketing services were utilized in 2023 through Iting with a Purpose, Green Words Consulting and Water support of extensive WIP and CAP outreach and engagement

ns Office provided support through news releases highlighting progress and efforts.

iters Healthy Communities Annual Report can be found on

Waters newsletter highlighting PA activities across local, and private partners can be found here: <u>Newsletter (pa.gov)</u>

support and marketing services were utilized in 2024 through Iting with a Purpose and Green Words Consulting in support CAP outreach and engagement needs.

ns Office provided support through news releases highlighting progress and efforts.

ters Healthy Communities Annual Report can be found on

Waters newsletter highlighting PA activities across local, and private partners can be found here: <u>Newsletter (pa.gov)</u>

focused on public education during Chesapeake Bay ss Week in June. Promoted via press release, a social media holder outreach. Over 3,500 views since launch. <u>Healthy</u> <u>munities.</u>

nd will be incorporated in the 2022 Integrated Water Quality 2022.

2022 Integrated Water Quality Report story map in 2022.

	and	Party( <u>ies</u> ) and Partnerships	Location	Timeline	Implementation Challenges or Recommendations	<u>Available</u> Technical and Financial	<u>Needed</u> Technical and Financial	
								<b>2023 Update:</b> Milestone Complete.
Schedule and participate in focus groups, forums and workshops, as appropriate.	Presentations and summaries of such events and the input provided will be shared as appropriate.	C & E Workgroup members; DEP/DCNR/PDA Communication Offices, DEP	Chesapeake Bay	As needed				<ul> <li>2020 Update:</li> <li>DEP worked with the Ba in WIP listening sessions nonprofit partners.</li> <li>WIP Steering Committee to the agriculture comm</li> <li>2021 and 2022 Updates</li> </ul>
								Completed in 2020
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.	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.	Communication Offices, DEP	Вау	now and 2025				<ul> <li>2020 Update: DEP Communications Of a go-to resource for the funding, data and report promotion and outreach 278 in December.</li> <li>C&amp;E Workgroup member outreach tools in organiz magazines, newsletters, meetings and conference</li> <li>2021 Update: DEP continued to publist <i>Waters – Pennsylvania.</i> In updates and progress from share updates from DEP counties. Anyone can su or visit the website to see</li> <li>DEP provided a weekly e Leaders with up to the n are relevant to their CAF</li> <li>DEP continually updates</li> <li>2022 Update: DEP continued to publist</li> </ul>
	participate in focus groups, forums and workshops, as appropriate. DEP and its state and county partners will use the delivery tools developed to reach their respective constituents through mailings, newsletters, their respective conferences, workshops, etc. about the importance of clean water and the goals of the Phase 3 WIP and	participate in focus groups, forums and workshops, as appropriate.summaries of such events and the input provided will be shared as appropriate.DEP and its state and county partners will use the delivery tools developed to reach their respectiveMailings, newsletters, websites, meetings, conferences and workshops are utilized as appropriate to constituentsthrough mailings, newsletters, their respectiveDEP will continue to publish its informative monthly WIPwebsites, conferences, workshops, etc. about the importance of the goals of the Phase 3 WIP andSummaries of such emails to CAP partners, and update the website.	participate in focus groups, forums and workshops, as appropriate.summaries of such events and the input provided will be shared as appropriate.members; DEP/DCNR/PDA Communication Offices, DEPDEP and its state and county partners will use the delivery tools conferences and developed to reach their through mailings, newsletters, developed.Mailings, newsletters, workshops are tilized as appropriate to constituents through mailings, newsletters, developed.DEP/DCNR/PDA Communication Offices, DEPthe delivery tools conferences and developed to through mailings, newsletters, developed.DEP/DCNR/PDA Communication Offices, DEPthrough mailings, newsletters, their respective their respective about the about the monthly WIP importance of the goals of the partners, and partners, and phase 3 WIP andSummaries of such summaries of such update the website.	participate in focus groups, forums and workshops, as appropriate.summaries of such events and the input provided will be shared as appropriate.members; DEP/DCNR/PDA Communication Offices, DEPBayDEP and its state and county partners will use the delivery tools conferences and websites, meetings, the delivery tools conferences and 	participate in focus groups, forums and workshops, as appropriate.summaries of such events and the input provided will be shared as appropriate.members; DEP/DCNR/PDA Communication Offices, DEPBayDEP and its state and county partners will use the delivery tools conferences and websites, meetings, respective through mailings, newsletters, expropriate to conferences, publish its informative about the monthly WIP importance of newsletter, weekly elands of the goals of the partners and the goals of the partners, and puptate to appropriate to conferences, publish its informative about the monthly WIP importance of patners, and the goals of the patners, andsummaries of such members; the deniver to appropriate to to construction to appropriate to to construction the informative about the monthly WIP monthly WIP <td>participate in focus groups, forums and workshops, as appropriate.summaries of such events and the input provided will be shared as appropriate.members; DEP/DCNR/PDA Communication Offices, DEPBayDEP and its state and county partners will use the delivery tools conferences, reach their through mailings, messageMailings, newsletters, conferences and workshops are tespective appropriate to constituentsDEP/DCNR/PDA Communication Offices, DEPChesapeake BayBetween now and 2025DEP and its state and county partners will use the delivery tools conferences and workshops are tespective through mailings, message newsletters, developed. the informative monthly WIP importance of newsletter, weekly clean water and emails to CAP phase 3 WIP and update the website.DEP will continue to newsletter, weekly emails to CAP the poals of the partners, and update the website.DEP will continue to newsletter, weekly emails to CAPDEP will continue to newsletter, weekly emails to CAPHer monthly WIP montane to not water and emails to CAPHer monthly WIP montane to not water and emails to CAPHer monthly WIP montane to montane to not water and email</br></td> <td>participate in focus groups, forums and workshops, as appropriate.summaries of such vents and the input provided will appropriate.members; 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DEP and its state and county partners will use the delivery tools constituents constituents constituents through mailings, newsletters, workshops are utilized as appropriate to construction construction construction the respective through mailings, newsletters, workshops, at appropriate to construction construction construction construction construction the respective through mailings, newsletters, workshops, etc. appropriate to construction construction their respective through mailings, newsletters, workshops, etc. appropriate to construction their respective monthy WIP minportance of newsletter, weekly efan water and emails to CAP partners, and Phase 3 WIP and</td>	participate in focus groups, forums and workshops, as 	participate in focus groups, forums and workshops, as appropriate.summaries of such vents and the input provided will appropriate.members; DEP/DCNR/PDA Communication Offices, DEPBayDEP and its state and county partners will use the delivery tools developed to trespective their respective their respective websites, newsletters, developed.Mailings, newsletters, websites, neetings, conferences and websites, neetings, toristiced as appropriate to constituentsDEP/DCNR/PDA Communication Offices, DEPBetween BayDery DCNR/PDA conferences and websites, meetings, the delivery tools developed to their respective websites, developed.DEP/DCNR/PDA Communication Offices, DEPBetween BayDery DCNR/PDA conferences and workshops are trespective the out will continue to publish its morstage the importance of newsletters, developed.DEP will continue to publish its monthly WIP menstage menstage terspective about the monthly WIP menstage the goals of the phase 3 WIP and update the website.DEP will continue to publish its monthly WIP menstage ters, and publish its monthly WIP menstage the goals of the phase 3 WIP andDEP will continue to publish its monthly WIP menstage terspective monthly WIPHerebasite monthly WIP menstage monthly WIP menstage terspective monthly WIPHerebasite monthly WIP menstage monthly WIP menstage monthly WIPHerebasite monthly WIP menstage monthly WIP menstage monthly WIP menstageHerebasite monthly WIP menstage monthly WIP monthly WIP monthly	participate in focus groups, forums and workshops, as appropriate. DEP and its state and county partners will use the delivery tools constituents constituents constituents through mailings, newsletters, workshops are utilized as appropriate to construction construction construction the respective through mailings, newsletters, workshops, at appropriate to construction construction construction construction construction the respective through mailings, newsletters, workshops, etc. appropriate to construction construction their respective through mailings, newsletters, workshops, etc. appropriate to construction their respective monthy WIP minportance of newsletter, weekly efan water and emails to CAP partners, and Phase 3 WIP and

Bay Local Government Advisory Committee and participated ons conducted by LGAC. Outreach was also conducted with

tee Workgroup chairs participated in sector-specific outreach nmunity and webinars were held with local leaders.

es:

Office launched the Phase 3 WIP News monthly newsletter: ne latest updates at the state and county levels and in orting, and other areas of the Phase 3 WIP effort. Through ach, subscriptions have increased from about 90 in June to

bers, as well as WIP action leaders utilized above-mentioned nization publications and mailings (member letters, rs, etc) and on organization websites and presented at nces.

lish a monthly Phase 3 WIP Newsletter, renamed <u>Healthy</u> <u>a. Partnership. Progress.</u> This collaborative newsletter shares from federal, state and county partners, and is utilized to EP and announce various funding opportunities for the subscribe to receive the electronic newsletter in their inbox see the monthly archive.

y email update to county CAP coordinators and Action e moment funding, outreach and training opportunities that CAP work.

es the WIP and CAP webpages as new material is developed.

lish a monthly Phase 3 WIP Newsletter, renamed <u>Healthy</u> a. Partnership. Progress. This collaborative newsletter shares

La		Resources <u>Needed</u> Technical and Financial	Resources <u>Available</u> Technical and Financial	Potential Implementation Challenges or Recommendations	Expected Timeline	Geographic Location	Responsible Party(jes) and Partnerships	Performance Target(s) and	Description	Action #
Lea are le are lea are lea ar	updates and progress fr share updates from DEP counties. Anyone can su or visit the website to se			1						
Image: Sector	DEP provided a weekly e Leaders with up to the r are relevant to their CAI									
Definition of the second of	DEP continually updates new material is develop									
And	<b>2023 Update:</b> DEP continued to publis <u>Waters – Pennsylvania.</u>									
Lea are are are are are are are are are a	updates and progress fr and is utilized to share u opportunities for the co newsletter in their inbo									
Image: Second	DEP provided a weekly Leaders with up to the r are relevant to their CA									
DEF	DEP continually updates new material is develop									
	2024 Update: DEP continued to publis <u>Pennsylvania. Partnersh</u> and progress from feder utilized to share update: for the counties. Anyone nbox or visit the websit									
are	DEP provided a weekly Leaders with up to the r are relevant to their CA									
	DEP continually updated new material is develop									

from federal, state and county partners, and is utilized to EP and announce various funding opportunities for the subscribe to receive the electronic newsletter in their inbox see the monthly archive.

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tes the Clean Water Academy, WIP and CAP webpages as oped.

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Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(
Priorit	y Initiative 2:	Funding and Re	sources						1
Section 2	, State Action, Pro	ogrammatic and Narr	ative Commitments						
2.2.1	Pass legislation providing a funding source or combination of funding sources for the implementation of the Phase 3 WIP.	PA Farm Bill - The Conservation Excellence Grant provides grants, loans, and tax credits to incentivize agricultural BMPs in priority geographies as found within the WIP. Keystone Tree Fund – This fund will go toward DCNR's tree planting initiatives Clean Streams Fund	PDA, DCNR, DEP, State Legislature, Governor's Office		2019-2020 Session 2021-2022 Session 2024-2025 Session				2022 Update: The Pennsylvania Clean S the Governor as part of the Stormwater Management reimbursements to count Conservation Assistance best management practic Keystone Tree Fund, \$22 \$22 million toward the end toward the existing Acid funds to county conservation with \$1.5 million of the and conservation districts be Management grant fund with the solicitation slate Winter 2023-2024. State agencies are working funds are in alignment working the reporting references.

2023 Update:	
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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.

2024 Update: The FY2024-2025 enacted budget realized dedicated annual funding of \$50 million toward the Clean Streams Fund.

						toward the Clean Stre
2.2.1(i)	Incentivize	Initiate	PDA, SCC, DCNR,	Ongoing		2020 Update:
	implementation	Conservation	DEP, PENNVEST,			The vendor for the Ce
	of Agriculture	Excellent Grant	EPA, NRCS, Pilot,	Beginning		Keystone Safety Servio
	BMPs that	Program, to include	Tier 1 and Tier 2	July 2020		finalized and a Notice
	comprise 60%	bundling grants	counties, non-			to get the virtual center
	and/or 10-fold	with REAP tax	profit and private			2021. Also, between n
	increase of the	credits and low-	entities			outreach at events, as
	nitrogen					

Growing Greener III

Assistance Program

Agricultural Conservation

(ACAP)

## Progress to Date (2020 - 2021 - 2022 - 2023 - 2024)

n Streams Fund was funded by the legislature and signed by f the FY 2022-23 General Fund State Budget. From this, the ent Grant program provides \$8.8 million toward grants and inties and municipalities, the Pennsylvania Agricultural ce Program (ACAP), which provides \$154 million in funds for ctices on farms statewide, \$8.8 million toward the existing 22 million toward a new Clean Water Procurement Program, existing Nutrient Management Fund, and \$4.4 million id Mine Drainage program. The first apportionment of vation districts for ACAP is set to occur in January 2023, additional Nutrient Management funds being provided to beginning January 2023 as well. The Stormwater nds will be rolled into the Growing Greener Plus program, ated to be released Spring 2023 and initial awards made

king together to ensure commitment and expenditure of with the federal requirements for COVID-ARPA, as well as requirements and deadlines. DEP, PDA, SCC, DCNR, and 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.

> Center for Water Quality Excellence has been selected and is vices, Inc. d/b/a Land Logics Group. Contracts have been ce to proceed was issued on November 12, 2020. Next step is enter component up and running which is anticipated by May n now and May 2021 and beyond, the vendor will be doing assuming those events happen, and appropriate COVID safety

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies</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	
	reductions	interest loans in					Tinanciai	Tinanciar	protocols can be mainta
	through	Tier 1 Counties.							2021. The Pilot will focu
	complementary								
	local, state,	Expand funding of							SCC staff continues to w
	federal, non-	<b>REAP tax credits</b>							reinvigorate the AgriLin
	profit and	and prioritize in							more than \$5 million in
	private funding	Chesapeake Bay							8 years due to lack of fu
	programs	Watershed.							discussion was sidetrac
									PennVEST has also rece
		Initiate Chesapeake							interest loan program fo
		Bay Ag Inspection							The CCC is estimate impl
		Program – Phase 2,							The SCC is actively impl
		to include providing cost-share to							program through agree Conservation Districts,
		farmers that are yet							Trust and Salisbury Tow
		to be or have been							pilot. Total funding for
		inspected, in select							received an additional \$
		counties.							effort.
		Coordinate with							Pennsylvania DEP anno
		NRCS to identify							2020. More than \$16 m
		and prioritize							Watershed, with many
		funding through							Practices and forested r
		RCPP, EQIP, CREP,							
		and other federal							2021 Update:
		funding programs.							PENNVEST continues ex agricultural BMPs.
		Prioritize up to 50%							
		of Growing Greener							In December 2021, the
		funding to nutrient							can be found here:
		and sediment							https://www.agricultur
		reducing practices							n/Pages/Agriculture-lin
		in the Chesapeake							
		Bay Watershed							The Center for Water Q
		through Block							both virtually and with a CEG: The SCC continues
		Grants (CAP Implementation							conservation districts –
		Grants)							Cumberland, Franklin, E
									implementation of the
		Pilot Center for							<b></b>
		Water Quality							The Lancaster and York
		Excellence, which							applications since July 2
		will provide							

ntained. The physical center should be opening June/July ocus on Lancaster and York Counties initially.

b work with staff from the Treasury Department to Link Loan Program. This existing program previously made in low interest loans, but has been inactive for approximately funding to "subsidize" these linked deposit loans. This acked in 2020 due to the challenges presented by COVID. cently expressed an interest in exploring a linked deposit low in for agricultural BMPs.

plementing its new Conservation Excellence Grant (CEG) eements with Lancaster, York, Cumberland and Franklin s, as well as a pending agreement with Lancaster Farmland ownship (Lancaster County) as a public private partnership or these five CEG agreements is nearly \$6 million, and the SCC al \$2 million in state funds in November to continue this

nounced the Growing Greener Plus awards on December 30, 5 million has been awarded to projects in the Chesapeake Bay ny of those projects focused on agricultural Best Management d riparian buffer implementation.

exploring a linked deposit low interest loan program for

ne AgriLink Loan Program was relaunched. More information

ure.pa.gov/Plants Land Water/StateConservationCommissio linked-Low-Interest-Loan-Program-.aspx

Quality Excellence funded by PENNVEST is up and running th a storefront. 2021–2022 focused on outreach. ues with delegation agreements with seven county 5 – Tier 1 - Lancaster and York counties and Tier 2 h, Bedford, Centre and Lebanon counties for the be CEG Program.

rk county conservation districts have been accepting CEG y 2020. Between July 2020 and September 2021, the LCCD

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		financial assistance and technical							awarded 27 CEG grants totaling \$49,247.50.
		guidance, in Tier 1 Counties. Prioritize EPA CBIG							The Cumberland and Fr application in January 2 CCCD awarded 4 CEG gr
		funds for riparian forest buffer and							totaling \$949,640.04.
		agriculture BMP implementation in Tier 1 and 2 counties.							The Bedford and Centre applications since Marc BCCD awarded 1 CEG gr totaling \$735,000.
		Utilize EPA "Most Effective Basin" (MEB) funds to cost-share implementation of							The Lebanon county con program and is in the pr already been in prelimin applications ready to be applications.
		agriculture BMPs in geographic areas of highest impact in the Chesapeake Bay							All conservation district conservation district's v agricultural support pro
		Watershed.							Lancaster Farmland Tru October 2020. Ever sin recipients totaling \$900
									Expansion of REAP Prog allocation for tax credits the annual allocation of the Chesapeake Bay wa (including the Chesapea out-of-pocket costs for
									CEG: The SCC continues conservation districts – Cumberland, Franklin, E implementation of the G
									The Lancaster and York applications since July 2 awarded 27 CEG grants totaling \$49,247.50.

ts totaling \$1,252,434.15. The YCCD awarded 9 CEG grants

Franklin county conservation districts began accepting CEG y 2021. Between January 2021 and September 2021, the grants totaling \$427,000. The FCCD awarded 19 CEG grants

tre county conservation districts have been accepting CEG arch 2021. Between March 2021 and September 2021, the grant totaling \$250,000. The CCCD awarded 5 CEG grants

conservation district has just been included into the CEG process of executing a delegation agreement. LCCD has minary talks with 5 operations and expect to have 5 be accepted as soon as they can begin accepting

ict outreach efforts include posting CEG information on the s websites and newsletter and flyers distributed to program organization in the counties

rust began a Private Party Partnership with the SCC in since the inception LFT has been working with 5 grant 00,000.

rogram: Since 2019, REAP continues at a \$13 million dits providing a total of \$13 million. Approximately 70% of of tax credits is awarded to eligible producers and projects in watershed. Applicants from ag-impaired TMDL watersheds beake Bay) are eligible for a REAP tax credit equal to 90% of or some high-priority BMPs.

ies with delegation agreements with seven county
Tier 1 - Lancaster and York counties and Tier 2 a, Bedford, Centre and Lebanon counties for the
ie CEG Program.

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									The Cumberland and Fra application in January 20 CCCD awarded 4 CEG gra totaling \$949,640.04.
									The Bedford and Centre applications since March BCCD awarded 1 CEG gra totaling \$735,000.
									The Lebanon county com program and is in the pro already been in prelimin applications ready to be applications.
									All conservation district conservation district's w agricultural support prog
									Lancaster Farmland Trus October 2020. Ever sinc recipients totaling \$900,
									MEB: 2021 EPA MEB fun (Ag MEBs) and Lancaster their CAPs and Pennsylv
									Of the 2022 CAP Implem Chesapeake Bay watersh practices and 11% were
									<b>2022 Update:</b> Expansion of REAP Progr for tax credits providing allocation of tax credits i Chesapeake Bay watersh (including the Chesapeal
									out-of-pocket costs for s CEG: The SCC continues conservation districts – T

Franklin county conservation districts began accepting CEG 2021. Between January 2021 and September 2021, the grants totaling \$427,000. The FCCD awarded 19 CEG grants

re county conservation districts have been accepting CEG rch 2021. Between March 2021 and September 2021, the grant totaling \$250,000. The CCCD awarded 5 CEG grants

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ct outreach efforts include posting CEG information on the websites and newsletter and flyers distributed to rogram organization in the counties.

rust began a Private Party Partnership with the SCC in nce the inception LFT has been working with 5 grant 00,000.

unds provided to DEP have been allocated to Chester County ter County (EJ MEBs) to implement high priority projects in /Ivania's Phase 3 WIP.

ementation Grant funds allocated to 34 counties in the rshed in December 2021, 89% were approved for agriculture re approved for developed/stormwater practices.

ogram: Since 2019, REAP continues at a \$13 million allocation ng a total of \$13 million. Approximately 70% of the annual ts is awarded to eligible producers and projects in the rshed. Applicants from ag-impaired TMDL watersheds eake Bay) are eligible for a REAP tax credit equal to 90% of r 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 -

Action #	Description	Performance Target(s) and	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	
									Cumberland, Franklin, B
									implementation of the (
									From January 2022-Dec
									through the CEG progra
									systems and associated
									structures, grassed wate
									structure for water cont
									MEB and IIJA: 2022 EPA
									allocated to pilot counti
									countywide action plan
									2022.
									Growing Greener Plus a
									the overall funding avail
									Chesapeake Bay. CAP in
									December 1, 2022, with
									2022. Growing Greener
									2022.
									2023 Update:
									PENNVEST continues to
									deposit program. The C
									assistance in identifying
									SCC continues to impler
									with record funding ma
									Effective Basin (MEB) fu
									additional \$4 million is r
									implemented agricultur
									were verified and repor
									The 2023 round of Grow
									million to 27 projects in
									estimated reduction of
									of phosphorus; and 4,19
									support the rapid strear
									through the Growing Gr
									58 implemented BMPs f
									program were verified a

, Bedford, Centre and Lebanon counties for the e CEG Program.

ecember 2022, 111 practices were reported as implemented ram, including but not limited to: animal waste management ed waste transfers, heavy use area protection and roof runoff aterways and diversions, stream crossings and fence, ntrol, and animal trails and walkways.

PA MEB and MEB IIJA funds provided to DEP have been nties (Lancaster, York, and Franklin) through the existing In implementation grant program, awarded on December 1,

and CAP Implementation Grant Programs: At least 50% of ailable has been directed toward the counties within the implementation grants were awarded to counties on th <u>a press release</u> announcing the awards on December 14, er Plus award recipients were notified by December 31,

to search for banks interested in participating in a link Center for Water Quality Excellence continues to provide ng funding resources to assist with bmp implementation.

ement the Conservation Excellence Grant (CEG) program nade available in 2023, including \$2 million in EPA IIJA Most funds to incentivize public-private partnerships. An s made available through the standard program criteria. 108 ure BMPs funded in whole or in part by the CEG program orted toward Pennsylvania's annual numeric progress.

owing Greener grant program will provide more than \$4.5 in Pennsylvania's Chesapeake Bay Watershed, with an of 48,337 pounds per year of nitrogen; 5,855 pounds per year 193 tons per year of sediment. DEP also continued to am delisting approach in agriculturally-impaired watersheds Greener Watershed Renaissance Initiative.

58 implemented BMPs funded in whole or in part by the Growing Greener Grant program were verified and reported toward Pennsylvania's annual numeric

Action #	Description	Performance Target(s) and	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, of which more sector. DEP continues to admini Program and Section 319
									part by Section 319 were numeric progress, of wh agriculture sector.
									176 implemented BMPs grant program were veri progress, of which more sector.
									399 implemented agricu Ag Plan Reimbursement An additional 34 implem reported through the cu PACD.
									2024 Update: DEP received 155 applica Growing Greener Plus gr grants in the Chesapeak Pennsylvania. Estimated more than 122,000 pour tons of sediment per yea delisting approach in agr Greener Watershed Ren
									Based on the initial subm currently reporting near Progress Year, which is a not be generated until e BMPs is an estimated fig
									DEP Chesapeake Bay IIJA grant funding for local pa approximately \$18.2 mil

# bre than 45 BMPs were implemented in the agriculture

inister the EPA Section 319 Nonpoint Source Management 319 grants. 64 implemented BMPs funded in whole or in ere verified and reported toward Pennsylvania's annual which more than 55 BMPs were implemented in the

Ps funded in whole or in part by the CAP implementation erified and reported toward Pennsylvania's annual numeric ore than 160 BMPs were implemented in the agriculture

iculture BMPs were verified and reported through the initial nt Program toward Pennsylvania's annual numeric progress. emented Nutrient Management Core N and P BMPs were current Ag Plan Reimbursement Program administered by

lications totaling approximately \$44 million for the 2024 grant round. DEP will award more than \$15 million; 45 ake Bay Watershed and 48 grants throughout the rest of ed reductions within the Chesapeake Bay watershed are bunds of nitrogen, 25,000 pounds of phosphorus, and 4,900 year. DEP also continued to support the rapid stream agriculturally-impaired watersheds through the Growing enaissance Initiative and expanded it statewide.

bmission of all of PA's partners' nonpoint source data, PA is early 16,700 Best Management Practices (BMPs) for the 2024 s an increase of more than 2,100 BMPs. Official reports will I early February 2025, and as such, the reported number of figure.

IJA funding accounts for a significant percentage of CAP I partners approximately \$7.1 million for 2025 projects and nillion over the entire 5-year grant cycle.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
					•				The SCC continued to ac in 2024 with now \$26.6
2.2.1(ii)	Clean Streams Fund: Implement the Agriculture Conservation Assistance Program (ACAP). ACAP would provide a true statewide cost-share	Develop guidelines and allocation methodology; distribute funds in 2023.	SCC, Conservation Districts		Begins Fall 2022				in Tier 1 and Tier 2 Bay of <b>2022 Update:</b> This is a mapprove ACAP Program train county CD staff on The Pennsylvania Clean the Governor as part of Pennsylvania Agricultura which provides \$154 mi statewide. The first app to occur in January 2023
	program to help implement practices that keep healthy soils and nutrients on the land and out of waterways. Agriculture is an integral part of								delegation agreements <b>2023 Update:</b> ACAP is fully operational \$141 million through sign counties have received of the state. Roughly 70% in the Bay watershed. In ACAP, including creation USDA-NRCS and Penn Sta
	Pennsylvania's culture, heritage, and economy.								<b>2024 Update:</b> Over \$150 million in ACC committed by the 12/24 conservation districts for services expenses. Func- the law, with roughly 70 in the Bay watershed.
									In addition, the FY 24/29 million, though Clean St federal funds, the state 2024. Funds are availab the formula used for dis
<b>2.2.1(iii)</b>	Clean Streams Fund: Nutrient Management Fund was increased. The	Develop allocation along with ACAP and CEG program allocations.	SCC, DEP, Conservation Districts		Begins Winter 2022-2023				<b>2022 Update:</b> This is a n for technical assistance, priorities of the Commis allocated in the 2022-20 technician salary increas

administer the Conservation Excellence Grant program (CEG) .6 million invested in the program for 136 agriculture BMPs y counties.

a new milestone for 2022-2023. By January 2023, SCC will m Guidelines and County Allocations. By April 2023, SCC will on the administration of the ACAP.

an Streams Fund was funded by the legislature and signed by of the FY 2022-23 General Fund State Budget. From this, the sural Conservation Assistance Program (ACAP) was created, million in funds for best management practices on farms apportionment of funds to county conservation districts is set 023. It is anticipated that conservation districts will enter ts in January 2023.

nal. As of the date of this report, the SCC has committed signed delegation agreements with 66 counties. To date, d over \$80 million in applications from farm owners across % of the funding and corresponding applications are located In addition, an entire infrastructure is being built around ion of a new technical assistance center in partnership with State University. Counties have also hired additional staff.

CAP funds from the original federal ARPA funds were 24 deadline. All funds have been committed to county for ag BMPs and related administrative and contractual nding was distributed to counties per a formula prescribed in 70% of the funds going to counties at least partially located

/25 state budget included a dedicated fund for ACAP of \$35 Streams Fund. Including interest monies from the original te spending threshold was set at \$43 million in September of lable to counties for two years to spend or encumber. Again, distribution is prescribed by state law.

a new milestone for 2022-2023. Proposals include education ce, financial assistance in CEG and Agri-link, and other nission. \$1.5 million of this additional funding has been 2023 fiscal year to go toward the Nutrient Management cases.

Action #	Description	Performance Target(s) and	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	
	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.								<ul> <li>2023 Update: The increase in funding for Streams Fund is actively the Nutrient Management the funds are being used fund the work of Stroud Coalition. Funds are being reimbursement program technology.</li> <li>2024 Update: The increase in funding for Streams Fund is actively the Nutrient Management the funds are being used fund the work of Stroud Coalition. Funds are being used fund the work of Stroud Coalition. Funds are being and improve technology</li> </ul>
2.2.1(iv)	Clean Streams Fund: Implement the Pennsylvania Clean Water Procurement Program	Develop guidelines and implement funding program.	PennVest, SCC, DEP		Begins Winter 2022-2023				2022 Update: This is a number of the state agencies met structure and feasibility. information related to be 2023 Update: The PENNVEST Board of Water Procurement Program we form and legality and rever of the program we form and legality and rever 2024 Update: The initial \$22M for the established a designated the Clean Water Procure opened in the fall of 202
2.2.1(v)	Clean Streams Fund: Implement the Grants/Reimburs ements to	Develop grant guidance and determine staffing needs to support Act 167 Plan review	DEP		Begins Winter 2022-2023				<b>2022 Update:</b> This is a n throughout Fall 2022 to grants and reimburseme 167 and Chapter 111, re provide information reg

g for the nutrient management program line under Clean ely being used to boost salaries for counties that administer ment Program through delegation agreements. In addition, sed to increase CEG program grants to counties for BMPs, ud Water Research via No-till Alliance and Soil Health being used to supplement PACD's conservation plan am. Funds are being used to update and improve

g for the nutrient management program line under Clean ely being used to boost salaries for counties that administer ment Program through delegation agreements. In addition, sed to increase CEG program grants to counties for BMPs, ud Water Research via No-till Alliance and Soil Health being used to supplement the Ag Conservation Plan ram, administered by PACD. Funds are being used to update gy.

new milestone for 2022-2023.

et multiple times throughout Fall 2022 to discuss program ty. Met with MDE multiple times to gather and compare b both pay-for-performance programs.

of Directors adopted the guidelines to stand up the Clean rogram at its April 19, 2023 Board Meeting. Application n was September 1, 2023. Contracts are currently under review with notification expected in early 2024.

ne program has been awarded. The Fiscal Code for 2024 has ted funding source totaling about \$7M annually to continue urement Program. The most current RFP for the program 024 and will close March 5, 2025.

new milestone for 2022-2023. Staff have met multiple times to develop guidelines for the stormwater management ments program. Guidelines must be in alignment with Act respectively. The requisite forms were submitted to GBO to egarding this new program, as it is funded through COVID-

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies</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	
	Counties and Municipalities for Stormwater Management Act (Act 167) Planning and Implementation	and implementation.							ARPA, and information I and requirements. <b>2023 Update:</b> Seven applications were Study projects, which is Plan for partial reimburs will receive funding for The SCC will stay involve advance performance- b BMPs for non-point sou <b>2024 Update:</b> During 2024, DEP award Study and \$2,670,854 to Stormwater Manageme million/yr for Act 167 PI for Act 167 Plan Phase I Greener Plus grant appl
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 n DCNR had a special fall of Clean Streams Fund allo 2023. CWF requirement allow any additional fut incorporated seamlessly 2023 Update: All \$8.8M allocated to th grantees. Grantees are a and will continue to do a 2024 Update: All funds made available as Urban and Communi- the annual DCNR C2P2 of through the Clean Streat was announced that an Tree Fund annually via th grant applications subm

n has been received from GBO regarding reporting deadlines

ere received from counties to complete Phase 1 Scopes of is the first step under Chapter 111 to completing an Act 167 ursement. In 2025 DEP will make decisions regarding who or Phase 2 (plan development).

lved in the Clean Water Procurement process and help to - based outcomes as a viable option alongside traditional burce.

arded \$260,000 to six counties to complete Phase I Scopes of to eight counties for the development or update of Act 167 nent Plans. As the FY 2024-2025 PA budget included \$2 Plan development or updates, another round of applications e I funding will be accepted through the 2025 Growing plication process.

new milestone for 2022-2023

all grant round in 2022 which is expected to fully expend the illocation of \$8.8 million once awards are announced in early ents were fully incorporated into this grant round and will future allocations to the Clean Streams Fund to be ssly into future grant rounds.

o the Clean Streams Fund has been awarded to C2P2 re actively working to implement projects with these funds to so through the grant end date in 2025.

ble for riparian forest buffer and "Treevitalize" (now known nity Forestry, or UCF) continue to be awarded to grantees via 2 grant cycle. Grantees continue to implement work funded eams Fund via the Keystone Tree Fund previously. In 2024, it in additional \$250,000 would be allocated to the Keystone a the Clean Streams Fund. These funds will be allocated to omitted during the 2025 C2P2 grant cycle, along with all other

Action #	Description	Performance Target(s) and	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	
									Keystone Tree Funds re driver's license renewal
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				<ul> <li>2020 Update: Allocation-based fundim Implementation Grants</li> <li>2021 Update: Allocation Coordinator and CAP Im since Fall 2019. It takes submission and the time</li> <li>2022 Update: Allocation-based fundim Implementation Grants was highlighted for the Balance conference, he</li> <li>2023 Update: Allocation-based fundim Implementation Grants of grant program was ex Action Leaders and Cou project funding needs, a 2023-2024 CAP grant ro</li> <li>2024 Update: Allocation-based fundim Implementation Grants of grant program was ex Action Leaders and Cou project funding needs, a 2023-2024 CAP grant ro</li> <li>2024 Update: Allocation-based fundim Implementation Grants updated to streamline to from the applicant. Du threshold of \$200,000 w projects were awarded average, from the time</li> </ul>
2.2.3	Initiate allocation of funding utilizing "block grants" to the lead planning and implementation	Allocate state and federal funding to Pilot, Tier 2, and Tier 3/4 counties to fund coordinators as well as to accelerate the	DEP, Comptroller's Office		Begins January 2020				<b>2020 Update:</b> Eight Community Clean were provided via PA st \$800,000 in the initial y Tier 2, 3 and 4 counties

received from individual donations or via the vehicle and val checkboxes.

ding program (Community Clean Water Coordinator and CAP nts) were developed and approved in Fall 2019

ion-based funding program (Community Clean Water Implementation Grants) have been implemented annually ses 4-6 weeks on average, from the time of application ime of award.

ding program (Community Clean Water Coordinator and CAP hts) continues to be implemented. This type of grant program he utility and associated efficiencies during the 2022 PA In the held in December 2022.

ding program (Community Clean Water Coordinator and CAP hts) continues to be implemented. The flexibility of this type is extolled during the recent Clean Water Gathering of State ounty Partners, held in October 2023. Due to demand and s, a minimum threshold of \$200,000 was established for the round.

ding program (Community Clean Water Coordinator and CAP hts) continued to be implemented. The CAP application was e the process as well as collect more precise information Due to demand and project funding needs, a minimum 0 was established for the 2024-2025 CAP grant round. 205 ed in the 2024-2025 CAP grant round. It takes 4-6 weeks on ne of application submission to the time of award.

an Water Coordinator Grants for the Pilot and Tier 2 Counties state Environmental Stewardship Funds (ESF), totaling I year (January-December 2020) and \$1.8 million for Pilot, es in second year (January – December 2021).

Action #	Description	Performance Target(s) and	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	
	teams of the CAPs	implementation of their CAPs. Best Management Practices in the CAPs focus on reductions for agricultural, stormwater, and forestry/natural sectors.							CAP Implementation Gra initial year (January-Dec the second year (January Applications for both rou round and awarded in le <b>2021 Update:</b> In December 2021, a tot CAP Implementation Gra (MEB) funding was alloc: https://www.governor.p improve-local-water-qua <b>2022 Update:</b> In December 2022, a tot and CAP Implementation https://www.ahs.dep.pa id=1 <b>2023 Update:</b> In December 2023, a tot and CAP Implementation <b>2024 Update:</b> In December of 2024, a tot and CAP Implementation <b>2024 Update:</b> In December of 2024, a tot and CAP Implementation \$9.6 million from the stat EPA funding, including \$
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				funds. <b>2023 Update:</b> This is a new milestone. approved for funding an More than 170,000 lbs/y 122,000 lbs/year of phos 36.3 million lbs/year of s Nutrient and sediment r part of the application p <b>2024 Update:</b>

Grants were provided to the Pilot Counties via CBIG2 in the ecember 2020) and to the Pilot and Tier 2 Counties via ESF ary-December 2021).

rounds were submitted by the counties in a four-week open less than six weeks thereafter.

cotal of \$17.4 million was awarded for County Coordinators, Grants, and BMP Verification. EPA Most Effective Basin ocated to Lancaster (EJ funding) and Chester (Ag funding). r.pa.gov/newsroom/gov-wolf-announces-17-4-million-toquality-for-chesapeake-bay-watershed/

cotal of \$12.2 million was awarded for County Coordinators ion Grants. This included EPA MEB and IIJA funding. .pa.gov/NewsRoomPublic/articleviewer.aspx?id=22236&type

otal of \$19.6 million was awarded for County Coordinators ion Grants. This included EPA MEB and IIJA funding.

a total of \$24 million was awarded for County Coordinators ion Grants. The 2025 CAP Implementation Grants include state Environmental Stewardship Fund and \$14.4 million in g \$7.1 million in Infrastructure Investment and Jobs Act (IIJA)

e. In the 2023-2024 application period, 226 projects were and are estimated to reduce:

s/year of nitrogen,

nosphorus,

of sediment.

t reduction estimates were generated through FieldDoc as n process.

Action #	Description	Performance Target(s) and	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	
									In the 2024-2025 application are estimated to reduce
									110,000 pounds/year of 42,150 pounds/year of p 11.8 million pounds/yea Nutrient and sediment r Watershed.
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 period will include a report for all NFWF	DEP		Begins February 2020				<ul> <li>2020 Update:</li> <li>On February 2, 2020, report PA LGI RFP. Some annucle could be funded through NFWF hosted a webinary application process on N deadline was extended.</li> <li>2021 Update:</li> <li>In February 2021, Nation grant funding for 8 PA Leponsylvania and contriwill directly support effor watershed in Pennsylvania and contriwill directly support effor Proposals. DEP, EPA and included PA LGI crit 2021 SWG grant opport October 2021.</li> <li>In June 2021, NFWF annot Sediment Reduction Graphenentation efforts.</li> <li>In June 2021, NFWF annot Sediment Reduction Graphenentation efforts.</li> <li>In June 2021, NFWF releated and selection of projects will be announced in Note that the second selection of projects will be announced in Note that the second selection of projects will be announced in Note that the second selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects will be announced in Note that the selection of projects with the selection of proj</li></ul>

lication period, 205 projects were approved for funding and ce roughly:

of nitrogen of phosphorus rear of sediment

nt reduction estimates were generated using Model My

representatives from EPA, DEP, and NFWF met to discuss the nual practices were added to the list of Priority practices that ugh this grant.

nar for LGI grant applicants, which reviewed the RFP and n March 17, 2020. Due to the pandemic, the application ed from April 16, 2020 to April 30, 2020. On June 5, 2020 and NFWF took part in a grant review meeting.

ional Fish and Wildlife Foundation announced \$1.2 million in LGI projects that will help improve local waters in tribute to the restoration of the Chesapeake Bay. The awards fforts by local governments and partners throughout the Bay vania to implement water quality projects that reduce urban, suburban, and agricultural lands.

eleased the Small Watershed Grant (SWG) Program Request PA and NFWF staff participated in review of the applications riteria for PA implementation projects submitted under the ortunity. The 2021 SWG grant slate will be announced in

nnounced 2021 awards under the Innovative Nutrient and Grants program, including nearly \$5 million in awards to , including support for DCNR's forest buffer and conservation d support for several emerging CAP-coordinated county-level ts.

leased the Pennsylvania Most Effective Basins grant program s. Building from successful coordination through PA-LGI SWG program, NFWF engaged DEP and EPA staff in review ects for the programs inaugural round. The 2021 MEB slate November 2021.

Action #	Description	Performance Target(s) and	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	(
		programs and projects funded in Pennsylvania.							<b>2022 Update</b> : The 2021 Chesapeake Ba 2021. Pennsylvania rece announced in August 202 On December 3, 2022, Na \$27.8 million awarded th years, the SWG grant slat Pennsylvania through the
									the \$27.8 million, 9 Penn funds and 25 Pennsylvan The 2022 INSR grant slate projects. The 2022 PA M 2023 INSR applications w review.
									<b>2023 Update:</b> DEP staff continue to ass applications. As of this y Restoration Division has Implementation Funding delivered through the CA Conowingo WIP. Other f grant programs include: T included \$4 M for six (6) slate, also announced in projects. Some announce RFP for these programs p
									<b>2024 Update:</b> DEP staff provided suppo grants including the Ches grant and the Chesapeak
									The DEP BWRNSM Chesa of Local Government Imp funding was administere efforts towards the Cono
									Chester County accepted implementation as well a

e Bay Small Watershed grant slate was announced in October eceived a total of \$3,386,806. The 2021 INSR grant slate was 2021. Pennsylvania received \$4,979,700.

, National Fish and Wildlife Foundation announced a total of d through the 2022 SWG grant program. As in previous slate included funding specifically earmarked for the local government implementation funds (PA-LGI). Of ennsylvania projects received a total of \$3,498,401 in PA LGI vania projects received a total of \$5,737,884 in SWG funds. late of \$8.9 million provided \$2.4 million toward 4 PA MEB grant slate awarded \$6.3 million to eight projects.

s were due November 17, 2022 and are currently under

assist NFWF and participate in rating and scoring is year, Pennsylvania DEP BWRNSM Chesapeake Bay has accepted management of the Local Government ing through the EPA CBIG4 grant. These funds will be CAP implementation program for 2024 toward the er funds delivered to Pennsylvania projects through NFWF le: The 2023 INSR grant slate, announced October 2023 and (6) Pennsylvania projects; The 2023 Chesapeake WILD grant in October and includes \$1.8 M for four (4) Pennsylvania uncements may be forthcoming after the decision for the EPA hs previously awarded to NFWF.

oport to NFWF by rating and scoring applications for several hesapeake Bay Innovative Nutrient and Sediment Reduction eake Bay Small Watershed grant.

esapeake Bay Restoration Division continued management Implementation Funding through the EPA CBIG4 grant. The ered through the CAP Implementation program to support pnowingo WIP.

Chester County accepted these LGI funds for a second year for project implementation as well as a new coordinator position whose primary

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									responsibility is to imple Chesapeake Bay waters
2.2.5	Engage with other jurisdictions regarding interstate trading and cross- jurisdictional financing (e.g. Conowingo)		DEP, PennVest, SRBC		2025				<ul> <li>2020 Update:</li> <li>PA continues to co-chai been in discussions with as well as potential part</li> <li>2021 Update:</li> <li>Letter of Understanding to serve as the financial</li> <li>2022 Update:</li> <li>PA continues to co-chai Meetings have been he PENNVEST to discuss crownaryland Conowingo Fi Procurement Program.</li> <li>2023 Update:</li> <li>Weekly meetings have bein the jurisdictional programm Water Procurement Proc</li></ul>
2.2.6	Investigate the potential for and implementation of short-term, low-interest, loans and other financing streams for		PennVest, PDA, DEP		2021 Implement beginning 2022				2020 Update: Meeting held with AG C utilizing PENNVEST func Structure of a program planned upon gathering Additionally, a sublevel planning agencies to pro including agriculture in

plement projects in the Octoraro watershed and other ersheds in Chester County, with priority to Octoraro.

hair the Conowingo WIP (CWIP) Steering Committee and has vith other jurisdictions regarding the CWIP Finance Structure, artnerships related to pay-for-performance strategies.

ing was negotiated with other jurisdictions and SRBC for SRBC ial entity for Conowingo WIP funding.

hair the Conowingo WIP (CWIP) Steering Committee. held frequently throughout 2022 with MDE, DEP, SRBC, and cross-jurisdictional financing, including but not limited to the Financing Program and the Pennsylvania Clean Water n.

ve been held with MDE, PA DEP, and NYDEQ to discuss crossnming and funding related to the CWIP. The PENNVEST Clean Program will be leveraged to fund projects that would be eting the CWIP goals.

hair the Conowingo WIP (CWIP) Steering Committee. Weekly held with MDE, PA DEP, NYDEQ, and EPA to discuss crossnming and funding related to the CWIP. The PENNVEST Clean Program as well as the federal Local Government grant has been and will continue to be leveraged to fund be reported toward meeting the CWIP goals.

G Choice to determine interest in a Link Deposit style program ands. General support and interest exist among all parties. m is being further investigated with a second meeting ing of additional information.

rel revolving loan fund is under discussion with regional provide low interest loans directly to eligible applicants in cooperation with local County Conservation Districts.

Action #	Description	Performance Target(s) and	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	
	agricultural projects								Initial meetings have be agencies is assembling t
									SCC staff continues to w reinvigorate the AgriLin more than \$5 million in 8 years due to lack of fu discussion was sidetrack PennVEST has also recent interest loan program for
									The SCC is actively imple program through agreen Conservation Districts, a Trust and Salisbury Tow pilot. Total funding for t received an additional \$ effort.
									<b>2021 Update:</b> AgChoice link deposit pr certificates of deposit.
									Additionally, a sublevel planning agencies to pro including agriculture in o Initial meetings have be agencies is assembling t Progress delayed due to
									SCC staff continued to w the 2 <sup>nd</sup> edition of the Ag Program was relauncher <u>https://www.agriculture</u> <u>n/Pages/Agriculture-link</u>
									CEG: The SCC continues conservation districts – Cumberland, Franklin, B implementation of the C
									The Lancaster and York applications since July 2

been held with interest from all parties. Regional planning g terms that can work for them for further discussion.

o work with staff from the Treasury Department to Link Loan Program. This existing program previously made in low interest loans, but has been inactive for approximately funding to "subsidizes" these linked deposit loans. This acked in 2020 due to the challenges presented by COVID. cently expressed an interest in exploring a linked deposit low of for agricultural BMPs.

plementing its new Conservation Excellence Grant (CEG) eements with Lancaster, York, Cumberland and Franklin s, as well as a pending agreement with Lancaster Farmland ownship (Lancaster County) as a public private partnership or these five CEG agreements is nearly \$6 million, and the SCC I \$2 million in state funds in November to continue this

program is unable to be implemented as they do not do .

el revolving loan fund continues to be discussed with regional provide low interest loans directly to eligible applicants n cooperation with local County Conservation Districts. peen held with interest from all parties. Regional planning g terms that can work for them for further discussion. to COVID.

work with staff from the Treasury Department to roll out AgriLink Loan Program. In December 2021, AgriLink Loan ned. More information can be found here: <u>ure.pa.gov/Plants\_Land\_Water/StateConservationCommissio</u> <u>inked-Low-Interest-Loan-Program-.aspx</u>

es with delegation agreements with seven county – Tier 1 - Lancaster and York counties and Tier 2 -, Bedford, Centre and Lebanon counties for the e CEG Program.

The Lancaster and York county conservation districts have been accepting CEG applications since July 2020. Between July 2020 and September 2021, the LCCD

Action #	Description	Performance Target(s) and	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	
									awarded 27 CEG grants totaling \$49,247.50.
									The Cumberland and Fra application in January 2 CCCD awarded 4 CEG gr totaling \$949,640.04.
									The Bedford and Centre applications since Marcl BCCD awarded 1 CEG gr totaling \$735,000.
									The Lebanon county cor program and is in the pr already been in prelimin applications ready to be applications.
									All conservation district conservation district a warright of the servation district's warright agricultural support pro
									Lancaster Farmland Trus October 2020. LFT has b
									<b>2022 Update:</b> Opportunities continue more desirable with incomposed provided the second seco
									<b>2023 Update:</b> A sublevel revolving loa planning agencies to pro including agriculture in Initial meetings have be agencies are assembling
									The Agri-Link low intere totaling \$1.1 million in s

ts totaling \$1,252,434.15. The YCCD awarded 9 CEG grants

Franklin county conservation districts began accepting CEG 2021. Between January 2021 and September 2021, the grants totaling \$427,000. The FCCD awarded 19 CEG grants

tre county conservation districts have been accepting CEG irch 2021. Between March 2021 and September 2021, the grant totaling \$250,000. The CCCD awarded 5 CEG grants

conservation district has just been included into the CEG process of executing a delegation agreement. LCCD has ninary talks with 5 operations and expect to have 5 be accepted as soon as they can begin accepting

ict outreach efforts include posting CEG information on the s websites and newsletter and flyers distributed to program organization in the counties.

rust (LFT) began a Private Party Partnership with the SCC in as been working with 5 grant recipients totaling \$900,000.

ie to be pursued for a link deposit program which should be ncreasing interest rates.

SCC have met multiple times, along with SRBC and Maryland vironment (MDE), to discuss Pay-for-Performance outcomes n Water Procurement Program. Guidelines are under ng 2023 approval.

ban fund continues to be under discussion with regional provide low interest loans directly to eligible applicants n cooperation with local County Conservation Districts. been held with interest from all parties. Regional planning ng terms that can work for them for further discussion.

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

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
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				<ul> <li>executive office recently include preserved farms</li> <li>2024 Update:</li> <li>To date, no private lence Outreach is still occurring enter into subsidized fint (Boos)</li> <li>The Agrilink program correcord funding available utilize a loan program. If unding levels out.</li> <li>2023 Update: This is a rest of the conservation Lance healthiest forested lance biodiverse region in ease songbird migration, clear military readiness, as the center—Fort Indiantow agriculture and recreati (KRSL) will bring in new stewardship approach i military mission.</li> <li>2024 Update: The KRSL across the country. More https://sentinellandscare more detail can be four https://storymaps.arcgite</li> </ul>
2.2.8	Grant making under the DCED Watershed Restoration and Protection Program (annually) and the H2O PA and PA Small Water and Sewer	Under WRPP, DCED collects final reports from grantees that document the activities, sources of funds and water quality improvements resulting from the	DCED	Statewide	Ongoing		WRPP - Act 13 Impact Fees collected annually H2O PA and PASWS – Appropriated funds; currently in process of	Given current staff demands, an additional 5 analysts and 1 manager would be needed to accommodate regular investment in H2O PA and	2020 Update Statewide funding of: WRPP – 17 projects; \$1 PASWS – 271 projects; \$58,484,193 approved ( H2O PA – 47 projects; \$ stormwater) Funding in Chesapeake WRPP - 3 projects; \$332

ntly met with State Treasurer to discuss expanding REAP to ms and new and beginning farmers.

enders have entered a Link Deposit program with PENNVEST. Fring to find a private lender to patterner with PENNVEST to financing for agriculture bmp projects backed by PENNVEST.

continued to be underutilized in 2024, primarily due to the ble for cost share, which minimizes the need for farmers to n. Will continue promote in 2025 and especially as cost share

a new milestone for 2024-2025. For 25 years, the Kittatinny andscape (KRCL) has united partners to protect the largest, indscape in the continental U.S. "The Ridge" is the most eastern North America and a crucial corridor for rare wildlife, clean water, and carbon sequestration. It also is key to the home of the nation's busiest National Guard training own Gap—and plays a leading role in Pennsylvania's robust ational economies. The Kittatinny Ridge Sentinel Landscape ew partners and resources, fortify the landscape-scale h in the face of climate change, and mitigate threats to the

SL was established in 2024 as one of 18 Sentinel Landscapes fore information about the KRSL can be found here: <u>capes.org/landscapes/kittatinny-ridge/</u> A story map with rund here:

cgis.com/stories/bb8a24fa758a45d98266c714f7520613

\$1,673,608 approved s; d (48 projects and \$11,070,224 for stormwater) ; \$27,925,593 approved (13 projects and \$5,110,075 for

ke Bay Counties: 332,933 approved

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	Programs (PASWS), when funds are appropriated	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)					awarding \$320M of ARPA funds	PASWS or new programs targeting stormwater and water quality issues	<ul> <li>PASWS – 110 projects; \$ stormwater)</li> <li>H2O PA – 19 projects; \$ stormwater)</li> <li>2021 Update Statewide funding of: WRPP – 10 projects; \$1,</li> <li>Funding in Chesapeake I WRPP – 2 projects; \$334</li> <li>No funds appropriated f</li> <li>2022 Update Statewide funding of: WRPP – 21 projects; \$3,</li> <li>Funding in Chesapeake I WRPP – 6 projects; \$1,0</li> <li>**PASWS and H2O PA re applications pending</li> <li>2023 Update Statewide applications r</li> <li>WRPP – 55 applications; PASWS – 964 application \$61,606,668 requested f</li> <li>H2O PA – 473 application \$124,241,596 requested f</li> <li>H2O PA – 473 application \$124,241,596 requested f</li> <li>H2O PA – 401 application \$23,399,156 requested f</li> <li>H2O PA – 208 application \$62,682,504 requested f</li> <li>CFA H2O and Small Wat 2023</li> </ul>

s; \$23,872,328 approved (12 projects and \$3,045,223 for

; \$11,286,700 approved (4 projects and \$2,031,651 for

\$1,035,784 approved

ke Bay Counties: 334,741 approved

ed for PASWS or H2O PA

\$3,407,495 approved

ke Bay Counties: 1,069,409

A received appropriations of \$320 million of ARPA funds –

ns received: ons; \$14,167,189 requested tions; \$300,675,716 requested (201 applications and ed for stormwater) ations; \$1,235,710,508 requested (61 applications and ted for stormwater)

nties applications: ons; \$4,499,216 requested ations; \$129,165,279 requested (76 applications and ed for stormwater) ations; \$559,883,037 requested (21 applications and ed for stormwater)

Vater and Sewer Projects were announced on December 19,

Action #	Description	Performance Target(s) and	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	
						<u> </u>			https://dced.pa.gov/nev
									new-investments-to-stre
									communities-across-the
									https://dced.pa.gov/dov
									water-and-sewer-
									programs/?wpdmdl=122
									<b>2024 Update:</b> Statewide funding of: <b>WRPP</b> – 15 projects; \$2,
									Funding in Chesapeake <b>WRPP</b> – 7 projects; \$883
									No funds appropriated f Pennsylvania's Fiscal Yea of non-lapsing funds to t (PENNVEST) for the esta Program (CWPP) and the PENNVEST through a co Proposal (RFP) on March PENNVEST issued Notice Purchase Agreements be 38,472.25 pounds of veri pounds of verified phose annually for 20 years, for successful agreements a \$5,869,832.24 for the pur reductions along with th 106,362 pounds of sedir received a maximum co 9,033.30 pounds of verifi 1,431.81 pounds of verifi reductions annually.
Section 2,	State Action, Nume	eric Commitments					1		· · · ·
2.2.1A	Investigate the incorporation of alternative manure treatment technologies and other potential	Identify various strategies to minimize nutrient imbalances in areas of excess manure nutrient generation,	PDA, SCC, DEP Nutrient Trading Program, NRCS	Chesapeake Bay counties that are identified to have excess manure	December 2025	Capital investment, cost effectiveness, and modeled nutrient reduction effectiveness is of concern.			<b>2020 Update:</b> DEP, PDA and SCC staff of manure treatment techn recognized and credited addition, several countie component of their Cou

newsroom/shapiro-administration-announces-335-million-intrengthen-pennsylvanias-economy-and-ensurehe-commonwealth-have-reliable-clean-drinking-water/

# lownload/approved-projects-2023-12-19-arpa-h20-small-

# L22828&refresh=6582479a82c0d1703036826

2,160,856 approved

e Bay Counties: 883,392 approved

## d for PASWS or H2O PA

/ear 2022-2023 budget, Act 54 of 2022, allocated \$22 million o the Pennsylvania Infrastructure Investment Authority tablishment of the PENNVEST Clean Water Procurement the purchase of verified nutrient and sediment reductions by competitive bidding process. PENNVEST issued a Request for rch 15, 2024, and on June 11, 2024 and June 28, 2024 ices to Proceed for the two Nutrient and Sediment Reduction being awarded funder the RFP for the purchase of up to verified nitrogen reductions, and the associated 6,040.81 osphorus and 261,703.25 pounds of sediment reductions for a maximum purchase price of \$7.1 million. Two are HGS, LLC - received a maximum contract award of purchase of up to 29,438.95 pounds of verified nitrogen the associated 4,609 pounds of verified phosphorus and diment reductions annually. And Lancaster Farmland Trust contract award of \$1,248,763.39 for the purchase of up to rified nitrogen reductions along with the associated rified phosphorus and 155,341.25 pounds of sediment

ff continue to work with Energy Works and other proposed chnologies to have treatment technologies properly ed under the Chesapeake Bay Watershed Model. In ities have identified and prioritized manure transport as a pounty Action Plans (CAPs).

Action #	Description	Performance Target(s) and	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	
	strategies to address areas of excess manure nutrient generation and capital investment required for implementation of manure treatment systems	including the incorporation of manure treatment technologies and manure transport, as they are determined to be feasible.		generated for crop need					<ul> <li>SCC and DEP have held of animal density and man have occurred as it related.</li> <li>SCC and DEP have been tracking of manure transecting of manure transecting of manure transection.</li> <li><b>2021 Update:</b> The SCC, PDA, and DEP of manure), ESPOMA (transection bagged home use fertilited. Research (Bio-char).</li> <li><b>2022 Update:</b> Discussion Concern related to the relocation in Adams Countralong with the supplement baseline as well as reductions from current method. PDA is disincentive for these terms and the supplement of the set of</li></ul>
2.2.1A(i)	Prioritize and/or incentivize increased manure transport and manure transport implementation and tracking in counties, such as Lancaster		DEP, SCC, PDA, Lancaster County		Beginning 2020	Tracking and auditing of manure hauler/broker records			meeting. 2020 Update: Tracking tools were upd manure brokers, receive to reinforce with manur districts by regulation. 2021 Update: Continue to reinforce w conservation districts by

d discussions with and provided information pertaining to anure production to PennAg Industries and other consultants lates to the transport of manure from two Tier 2 counties.

en in discussions with one Tier 1 county as it relates to better ansport within and outside of that county.

P continue to work with EnergyWorks (gasification of layer ansport and treatment of layer manure to a full line of tilizers), and <u>Epcot Crenshaw Corporation</u>/ Stroud Water

ions between Energy Works, DEP, and SCC continue. e main poultry facility being excluded from Bay model due to unty. CBNTT has been released for use for nutrient trading, mental information, which takes into account the TMDL duces the uncertainty ratio from 3:1 to 2:1.

exploring options for the Chesapeake Bay Program to credit om manure treatment technologies as an alternative to the is concerned about the Chesapeake Bay Program creating a technologies.

DEP in advancing the concept of EnergyWorks facility in andbox demonstration" in the Bay program specifically nanure treatment technologies to address the nutrient mass ed in the CBP Comprehensive Evaluation of System Response etted by the new Ag Advisory Committee and Science and mmittee. PSC will consider this recommendation at a future

odated in PracticeKeeper and Nutrient Balance Sheets from ived by Conservation Districts, are to be entered. Continue ure brokers that NBS are to be submitted to conservation .

with manure brokers that NBS are to be submitted to by regulation and thus entered into PracticeKeeper.

Action #	Description	Performance Target(s) and	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	
	County, that have been identified through CBPO Modeling Tools to be in excess of organic nutrients								The SCC has started the Hauler and Brokers Prog <b>2022 Update:</b> Work is ongoing to ensuentered into PracticeKe <b>2023 Update:</b> Necessar 2023. <b>2024 Update:</b> Updated nutrient balance is ongoing to ensure NB
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				into PracticeKeeper. Re <b>2022 Update:</b> This is a m 2022 state budget inclue Management Fund. Teo Chesapeake Bay Regula state funding through C <b>2023 Update:</b> Funding COVID-ARPA funds. <b>2024 Update:</b> The FY 24/25 state budge management administration
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	DEP	Chesapeake Bay	Beginning July 2022				2022 Update: This is a r Additional funds were a Program Objective in th Program Workplan. Fee Abatement Fund are use 2023 Update: Funding COVID-ARPA funds. 2024 Update: Conservation District Ch 2022 and 2023 levels, a

ne process of a regulatory review of the Commercial Manure ogram.

nsure NBS are submitted to the conservation districts and Keeper. Regulatory review is ongoing.

sary updates to the NBS were approved by the SCC Board in

ance sheets approved in 2023 are being implemented. Work NBS are submitted to the conservation districts and entered Regulatory review is ongoing.

new milestone for 2022-2023.

Cluded a \$22 million line item increase in the Nutrient Fechnician salaries were raised by \$10,000, split between Ilatory Accountability Program (CBRAP) and this increase in TOOVID-ARPA, for full-time equivalent.

ng increases for full-time equivalents were made possible by

udget included a \$5 million annual increase in the nutrient strative line, ensuring that the FTE increase for nutrient ians in delegated counties will continue.

a new milestone for 2022-2023.

e allocated to the Chesapeake Bay Technical Assistance the federal Chesapeake Bay Regulatory Accountability Federal and state Chesapeake Bay Agricultural Source used for this increase.

ng increases for full-time equivalents were made possible by

Chesapeake Bay Technician funding per FTE continued at , and with dedicated state funds associated with

Action #	Description	Performance Target(s) and	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	
		Chesapeake Bay Regulatory Accountability Program.							complimentary program Chesapeake Bay Techni
2.2.4A	Increase funding for Conservation District Chesapeake Bay Engineer Specialists and Engineer Assistants 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 \$86,250 to \$91,900 for Engineer Specialists and \$79,350 to \$85,000 for Engineer Assistants using federal Chesapeake Bay Implementation Grant.	DEP	Chesapeake Bay	Beginning July 2022				<ul> <li>2022 Update: This is a r Additional funds were a Objective in the federal funds are used for this i</li> <li>2023 Update: Funding Federal CBIG and State</li> <li>2024 Update: DEP continues to fund O currently in year two of year one of the agreem</li> </ul>
2.2.5A	Add up to 5 new NRCS technical assistance support / engineers	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				<ul> <li>2022 Update: This is a r been signed to move for</li> <li>2023 Update: The engineers have been EQIP funds. In addition an NRCS engineer at the selected and announce assistance center can be Center for Ag Profession Service (usda.gov) Add technical assistance in construction 2024 Update: Engineers hired jointly for on EQIP (highest) and E</li> </ul>
2.2.1F	Maximize existing funding sources for riparian forest buffer	Fully utilize existing funding sources for buffer implementation and maintenance	DEP (GG, 319), UDSA (CREP+), SCC (REAP), DCNR (C2P2) TreePennsylvania	Chesapeake Bay	By 2025	Rigid programs, existing restrictions, coordination, lack of understanding			2020 Update: See above under 2.2.1. opportunities in early 2 2021 Update:

ams it is anticipated that per FTE reimbursement for the mician contract will continue through 2025.

a new milestone for 2022-2023. e allocated to the Chesapeake Bay Engineering Program ral Chesapeake Bay Implementation Grant Workplan. Federal is increase.

ng increases for full-time equivalents were made possible by te Chesapeake Bay Abatement Funds.

d County Conservation Districts as in previous years and is of a five-year agreement where salaries were increased in ement.

a new milestone for 2022-2023. Agreement with NRCS has forward with hiring engineers.

been hired to prioritize ACAP projects that commingle with on, the SCC is funding an engineering firm to work alongside the new technical assistance center. The firm has been cement forthcoming. More information on the technical to be found here: Federal, State Officials Launch New Training sionals in Pennsylvania | Natural Resources Conservation dditionally, DEP is in development of an IFB for additional n coordination with SCC and NRCS.

ly by NRCS and SCC continue to design projects with priority d EQIP/ACAP (second) priorities.

 DCNR leadership intends to explore additional v 2021.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	implementation in Pennsylvania.	annually, including federal, state, and private programs (esp. under-utilized programs such as REAP).	(TreeVitalize) CBF (K10), etc.			about all individual programs, etc. Lack of funds to start a new program.			DCNR is funding buffers         the Environmental Stew         anticipates allocating \$7         shovel-ready buffer pro-         Implementation Grants         continues to work with         Program.         2022 Update:         DCNR has received \$3 m         these funds via the exist         Restoration ITQ for both         2023 Update:         DCNR continues to leve         utilize via C2P2 grants a         However, demand for g         New/Additional/Increas         19 implemented BMPs w         urban forest planting, ri         Pennsylvania's annual m         2024 Update:         DCNR continues to leve         utilize via C2P2 grants a         contract. In 2024, DCNR         buffer implementation,         forest buffer work. DCN         other federal and privat         additional \$2M in NFWF         buffers, as well as an ad         the implementation of re
									In 2024, DCNR awarded projects through C2P2 a
2.2.2F	Expand TreeVitalize and utilize other programs to facilitate	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 Tre opportunities to both so 2021 Update:

ers through its C2P2 program with Keystone Rivers funding, ewardship Fund, and the Keystone Tree Fund. DCNR also \$700,000 of oil and gas funding to support on-demand, rojects. DEP funds buffer projects through the CAP ts and Growing Greener Plus grant program. DEP also th USDA-FSA and PACD in partnership for the <u>PA CREP</u>

million from EPA IIJA MEB funds via the BIL, and will use isting C2P2 Grants and/or the new Environmental oth riparian forest buffers and lawn conversion projects.

verage available internal and external funding for buffers to and the Ecological Restoration Invitation to Qualify (ITQ). grants and projects continues to outpace available funding. ased funding sources are needed.

Ps were reported as funded in whole or in part by CBF for , riparian forest buffer, and tree planting, toward I numeric progress.

verage available internal and external funding for buffers to s and the Ecological Restoration Invitation to Qualify (ITQ) NR was allotted \$7M in new state funds for riparian forest on, which will help fund the ongoing demand for riparian CNR plans to leverage the new \$7M in funds as match for vate grants in coming years. DCNR was also awarded an WF INSR funds, some of which will fund riparian forest additional \$2M in EPA funds, some of which will also fund of riparian forest buffers.

ed approximately \$2.3M to fund riparian forest buffer 2 and the Natural Resource ITQ.

reeVitalize Leader in 2020 and is currently exploring solidify and expand the TreeVitalize program.

Action #	Description	Performance Target(s) and	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	
	planting and maintenance.								DCNR hired a Tree Equir around tree planting.
	(This is part of PA's Tree Canopy Action Plan, as								<b>2022 Update:</b> Treevitalize hired a new
	published <u>here.</u> )								TreeVitalize, in partners grant, under which they employee.
									A new TreeVitalize tean implementation project 2022.
									<b>2023 Update:</b> TreeVitalize, now know has been fully integrate allow expansion of gran beyond. UCF also intene ITQ to get urban and co with the newly increase
									<b>2024 Update:</b> PA's Urban and Commu regional UCF specialists environmental justice c are planned for 2025 to \$7.7M+ to fund UCF pro
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	All agencies and partners	Chesapeake Bay	Ongoing/A SAP	Innovation, Funding, Coordination, etc.			<b>2020 Update:</b> In cooperation with We to provide on-demand, plan to seek additional t engaged in numerous d alternative conservation
	(This is part of PA's Riparian Forest Buffer Action Strategy, as published <u>here)</u>	for landowners utilizing buffer co- benefits such as wildlife habitat, income/product potential, flood mitigation, etc. Streamline funding							<b>2021 Update:</b> DCNR has continued con USFS on conservation fi revolving funding mech Council (RFBAC) meetin

uity Specialist who will focus on community engagement

ew Program Manager in January of 2022.

ership with Watershed Forestry, applied for a ATBC NFWF ney have requested funding for a Bay-focused TreeVitalize

am member focused on community outreach to increase ects in the Chesapeake Bay Watershed will be hired in late

own as PA's Urban and Community Forestry (UCF) Program, ted into C2P2 CWF Grants. An influx in federal funding will ants for UCF, and expansion of DCNR's UCF Staff in 2024 and ends to leverage and utilize the new Ecological Restoration community forestry implementation projects on the ground sed federal funding starting in 2024.

munity Forestry Program facilitated the hiring of two new sts in 2024, who will primarily focus on reaching new e communities in PA's Bay Watershed. Additional new hires to further expand the program. In 2024, DCNR awarded projects statewide via IRA funds and state funds.

Vestern PA Conservancy, DCNR has established a mechanism d, flexible funding to partners for buffer implementation. We al funding for this program. We have also been actively s discussions with NGO partners, consultants, and USFS on ion financing strategies to leverage private capital.

conversations with various NGO partners, consultants, and I financing strategies to leverage private capital, or develop a chanism. In August 2021, the Riparian Forest Buffer Advisory ting focused entirely on this topic.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(
		source similar to DCNR's NFWF- Funded Stream ReLeaf program.							DCNR has hit some hurd WPC, through the new N opportunities could exist of the 2021 calendar yea
									DEP funds buffer project by the counties to imple
									<b>2022 Update:</b> DCNR worked with DGS Environmental Restorati riparian forest buffers. C buffers has qualified, and DCNR intends to test this 2021 for the "Penn's Wo
									<b>2023 Update:</b> DCNR is in the process or riparian forest buffer pro installed in the Spring of funding available to cont
									DCNR is investigating the develop a new funding r
									<b>2024 Update:</b> DCNR was able to get the to fund riparian forest be will continue to utilize th for ways to improve the use this mechanism as th outside of the C2P2 gran
2.2.3F(i)	Continue to seek sustainable sources of funding for forestry practices in order to fulfill current demand amongst PA landowners.	PA DCNR will continue to evaluate NFWF grant opportunities annually, and apply for funds as appropriate to support Watershed and Urban/Community	PA DCNR	Watershed Boundary/Sta tewide	Ongoing	One-off grants and continual applications each year can be burdensome administratively and at time of application.	Technical resources available to implement awards. More technical resources needed to continue to write grants.	Match resources may be needed to meet match requirements for grants. State funding and resources needed to support C2P2 grant awards and	<b>2024 Update:</b> PA DCNR continues to see internally. In 2024, DCNF \$2M from NFWF, and aw grants for Community ar finalizing a grant from PE 2025.

ordles on the flexible funding mechanism developed with v Master Agreement with WPC that began 7/1/21, new kist. DCNR aims to find a solution to this issue before the end year.

ects through the CAP Implementation Grants, as applied for plement their priority initiatives.

SS to create an Invitation to Qualify (ITQ) contract for ation work, including the planting and maintenance of Currently, at least one contractor able to implement and DCNR is working to notify other potential contractors. this new funding mechanism with NFWF Funds awarded in Noods and Meadows" proposal. This will be tested in 2023.

of testing the new Ecological Restoration ITQ to implement projects. The first projects funding via this mechanism will be of 2024. While this mechanism is flexible, there is a lack of portinue to utilize it to meet demand for projects.

the opportunity to partner with the Chesapeake Bay Trust to g mechanism for buffers and other forestry practices.

the new Ecological Restoration ITQ up and running in 2024 buffer projects on private and public lands statewide. DCNR this newly functioning mechanism, and will continue to look ne mechanisms efficiency moving forward. DCNR intends to s the primary way to fund riparian forest buffer projects rant program moving forward.

seek funding from sources such as NFWF, EPA, and NR was awarded an additional \$2M from EPA, an additional awarded \$10M+ in state funds and federal funds via C2P2 and Watershed Forestry practices. DCNR also anticipates PEMA/FEMA for another \$2M to fund forestry practices in

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		Forestry programs and projects. PA will also continue to advocate for state funds to support Community and Watershed Forestry BMP implementation through both C2P2 grants, as well as through the Natural Resource Inventory and Ecological Restoration Invitation to Qualify statewide contract. PA DCNR will also look to in-state partners, such as PEMA and PAGC for opportunities to partner to bring in federal/private/fou ndation funding to support Community and Watershed Forestry Projects.						ITQ statewide contract project implementation	
2.2.4F	Ensure that riparian forest buffers are adequately maintained to ensure survival by developing a Maintenance funding source for NGOs to develop their own maintenance programs.	Develop a Riparian Forest Buffer Maintenance funding source to create the capacity for NGOs to develop their own maintenance programs for new and already- implemented buffers (up to 5 years after initial planting).	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 s do not currently have Buffer Advisory Com Maintenance in 2021 maintenance concert The SCC included ma reimbursable expense credits for out-of-poor promote on-farm con In FY 19-20, the enable to provide a 90% tax

ng sources provide for establishment and maintenance; but we ave a dedicated source for maintenance. The Riparian Forest committee will be launching an Action Team focused on 021 to explore options on how to address this and other RFB cerns.

maintenance on riparian forest buffers as a new qualifying ense through the REAP program, which pays farmers back in tax pocket expenses related to best management practices that conservation.

nabling legislation for the REAP Tax Credit Program was amended ax credit for a number of priority BMPs in areas with a TMDL

Action #	Description	Performance Target(s) and	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	
	(This is part of PA's Riparian Forest Buffer Action Strategy, as published here)						Financial	Financial	<ul> <li>with impairments from a watershed). Included in maintenance of forest riftor FY20-21 and is now a</li> <li><b>2021 Update:</b> <ul> <li>Due to the COVID-19 glo</li> <li>Team effort with the RFE early 2022. Available DC</li> <li>planting establishment of Partners in Lancaster hav</li> <li>Team, which works on a planted within Lancaster</li> <li>The SCC is working with maintenance agreement maintenance.</li> </ul> </li> <li><b>2022 Update:</b> <ul> <li>Post-planting establishment of the section of t</li></ul></li></ul>
									2023 Update: DCNR continues to share maintenance on any buf Ecological Restoration IT there is a lack of funding The SCC is encouraging of \$154 million in ACAP fun riparian buffers on farml and collaboration with co 2024 Update: The SCC continues to see program requires that an treated have a 35 ft. Buf continued in 2024 with p together to incentivize v

m agricultural nutrients and sediments (entire PA Bay in this amendment is a 90% tax credit for the installation and t riparian buffers. Changes were made to the REAP guidelines w available.

global pandemic and funding issues, the Maintenance Action RFBAC was put on hold. This will be resumed in late 2021 or DCNR funding sources continue to provide funds for postat costs.

have developed BEST, or the Buffer Establishment Support and fundraises for buffer maintenance for any buffers ter County.

th the Stroud Water Research Center on a sample / draft ent / contract and funding options for riparian forest buffer

hment on forest buffers is now a fundable activity for all ny funding source in the past 5 years under the C2P2 grants. the overall grant ask to DCNR.

are with partners that C2P2 grants can be utilized to fund ouffers planted within the past 5 years. DCNR's new ITQ can also be utilized to fund maintenance, however, ing available to leverage that new mechanism at this time.

g counties to incentivize riparian buffer projects with the funded grants. The SCC will take a very intentional focus on mland in the coming year and seek funding through RCPP n county farmland preservation boards.

seek ways to incentivize buffers on farms. The ACAP any farms with animal concentration areas (ACAs) being suffer as a condition of receiving funds. Conversations h partners at DCNR related to how we can collectively work e voluntary buffers on farms.

Action #	Description	Performance Target(s) and	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	(2
									DCNR continues to fund r DCNR continues to seek f funding mechanism.
2.2.5F	Continue and Increase Urban Tree Canopy Grants to Communities and non- governmental organization Partners (This is part of PA's Tree Canopy Action Plan, as published here.)	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.			<ul> <li>2020 Update: Please refer to 2.2.2.F.</li> <li>2021 Update: Grants are now offered th Environmental Stewardsh</li> <li>2022 Update: Grants are continuing to b Stewardship and Keyston TreeVitalize and Riparian C2P2.</li> <li>The Clean Streams Fund r grants, for C2P2 grant rou the number of TreeVitaliz early 2023.</li> <li>2023 Update: DCNR announced C2P2 C of \$3.52M for urban and working to implement the DCNR has applied for and be utilized for urban and future years.</li> <li>DCNR is also increasing re to additional communitie funding available for urban organizations engaged in</li> </ul>
2.2.6F	Leverage existing funding sources for Stream and	Explore potential to improve leveraging of EQIP, CFA and	DEP, NRCS, SCC, NGOs, DCNR, Universities, etc.	Chesapeake Bay	Ongoing	Strict program regulations, lack of knowledge about			<b>2020 Update:</b> Utilization of CAP Implem projects. Also, please ref

and maintenance on buffer plantings through C2P2 grants. Seek funding for buffer maintenance to utilize via the ITQ

ed through the department's C2P2 program, funded with Indship and Keystone Tree Funds.

g to be offered via the C2P2 grants, funded w/ Environmental stone Tree Funds. DCNR is actively exploring ways to combine rian Forest Buffer Grants under one forestry umbrella within

Ind made \$3,520,000 for TreeVitalize grants, now under CWF t round 28.6. This was a major boost and greatly increased italize grant applications. These awards will be announced in

P2 CWF grants funded with the Clean Streams Fund allocation and community forestry projects in early 2023. Grantees are at these projects by December of 2025.

and been awarded federal funds totaling over \$10M that will and community forestry grants to communities in 2024 and in

ng regional staff capacity across PA to help conduct outreach nities and provided assistance for access to various grants and urban and community forestry work.

ed \$7.7M+ to fund UCF projects statewide via IRA funds and t partners such as communities and non-governmental d in urban and community forestry work.

plementation Grants for stream and wetland restoration e refer to 2.1.4.F

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(
	Wetland Restoration.	REAP programs to support creditable/conformi ng stream and wetland restoration implementation, management and monitoring.				existing programs and creditable BMPs, etc.			<ul> <li>2021 Update:</li> <li>Utilization of CAP Implement wetland restoration projerogram provided additi floodplain restoration proflood protection projects</li> <li>Act 13 Watershed Restort technical assistance, continuing its effort technical assistance, continuing its effort DEP continues to advocate benefits of stream and we banking and In-Lieu Feet MS4 and other pollution</li> <li>2023 Update:</li> <li>DEP provides technical a Encroachments and Train complex large watersheet aquatic resource restorates sources as noted above to the technical above to provide the provides technical a Encroachments and train complex large watersheet aquatic resource restorates and complex large technical above to the technical above to technical above to the technical above to the technical above to the</li></ul>
2.2.7F	Develop funding opportunities for turf conversion programs.	Include Conservation Landscaping as an eligible BMP in existing conservation grant programs. Seek new innovative funding sources and mechanisms.	DCNR, TreePennsylvania, TreeVitalize, DEP, etc.	Chesapeake Bay	Ву 2021	Time, finding funding sources, etc.			<b>2020 Update:</b> DCNR allocated \$50,000 Program launch in 2020. portion of DCNR's EPA C practices. The Alliance fo Lawn Conversion practic to explore options for fu grant opportunities in 20

lementation Grants and Growing Greener for stream and rojects. In 2021, DEP Growing Greener competitive grants ditional preference for flood resiliency and stream and projects. DCED continues to fund stream restoration and ects through the Commonwealth Financing Authority (CFA) atoration and Protection Program (WRPP). DEP provides construction oversight and funding through the <u>Stream</u> and the <u>Flood Protection Program</u>.

fforts mentioned in the 2021 update.

bocate for multiprogram accounting so that the unrealized cod wetland restoration projects initiated through mitigation are programs can be attributable to other programs such as on reduction evaluations.

Il assistance and permitting through Division of Wetlands, raining to support legacy sediment removal projects and hed scale phased projects that result in comprehensive pration. Pennsylvania continues to utilize existing funding ve to incentivize stream restoration.

vide technical assistance and permitting through Division of ents and Training to support legacy sediment removal large watershed scale phased projects that result in ic resource restoration. Pennsylvania continues to utilize es as noted above to incentivize stream restoration.

200 for implementation as part of its Lawn Conversion 20. An additional \$75,000 was made available for 2021, and a A CBIG award for 2021 will be available for Lawn Conversion a for the Chesapeake Bay received a NFWF SWG grant to fund tices in 2020 and 2021. DCNR is also working with partners funding Lawn Conversion practices via the existing C2P2 2021, and DCNR plans to apply for a NFWF INSR grant in

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		Explore funding							early 2021 that would a
		opportunities tied							available to partners.
		to flood mitigation.							
									2021 Update:
									\$75,000 was made avail
									2021 was also utilized for
									demand for implementa
									for the Chesapeake Bay
									Conversion practices in
									INSR grant, of which \$50
									DCNR continues to work
									to best incorporate Law
									the C2P2 program in ear
									implementation.
									2022 Update:
									DCNR encouraged partn
									under the C2P2 Partners
									focused on turf convers
									will be announced in ea
									Further, DCNR will be ut
									fund lawn conversion pr
									DCNR is also exploring c
									Forest Buffers grant cate
									mechanism within C2P2
									As of fall 2022, Lawn Co
									Grants, and applications
									Funding will be request
									based on amount reque
									2023 Update:
									DCNR has fully incorpor
									as well as the Ecological
									demand. DCNR is also e
									create another mechani
									conversion implementa
									2024 Update:

also make Lawn Conversion implementation funding

ailable for 2021, and a portion of DCNR's EPA CBIG award for I for Lawn Conversion practice implementation. However, the ntation has far outpaced the funding available. The Alliance ay is working to finalize their NFWF SWG grant to fund Lawn in 2021. Further, DCNR was recently awarded a \$1M NFWF \$500K will be utilized for work supporting Lawn Conversion.

ork with the existing C2P2 grant program to determine how wn Conversion practices. DCNR expects partners to apply to early 2022 for grants that include Lawn Conversion

rtners to apply for C2P2 funding for turf conversion projects erships umbrella. Three proposals were accepted that ersion work. Funding decisions are currently being made, and early 2023.

utilizing funds awarded by both NFWF INSR and EPA MEB to practices implementation in PA.

g options to include lawn conversion under the Riparian ategory, expanding it to be a more wholistic forestry grants P2.

Conversion is now an integrated part of the C2P2 CWF ons for lawn conversion projects will be accepted annually. sted each year from the state budget to fund applications uested for viable projects.

porated Lawn Conversion into the C2P2 CWF Grant Program, cal Restoration ITQ. However, available funding lags behind exploring partnership with the Chesapeake Bay Trust to mism for distributing funding, when available, for lawn tation work.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									DCNR continues to awar annually, and is now fun Restoration ITQ. Availab DCNR received grants fro Chesapeake Bay Waters funding via a NFWF ATBO
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- LSR restoration projects.	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 collection and analysis to develop targets	<ul> <li>2020 Update:</li> <li>1. Data published to PAS Water Quality/TMDL products</li> <li>2. Ongoing EPA Wetland developing a Watershed revised work plan in place</li> <li>3. Scientific research and across PA was accompliss funding sources. These s results and a basis for dee projects.</li> <li>2021 Update:</li> <li>DEP recently completed and Geomorphon Landfor understanding landform, are available on Pennsylve</li> <li>2022 Update:</li> <li>DEP continues to promor- in identifying potential re- benefits of the Little Fox economic and social ben savings and other non-er- local community. Click here- valley mapping to assist higher potential to maxing</li> </ul>

vard LtH grants through the C2P2 CWF Grant Program funding LtH implementation projects via the Ecological able funding continues to lag behind demand for this work. from NFWF and EPA to fund LtH implementation work in the ershed, but was unfortunately unsuccessful in securing TBC grant for LtH implementation statewide.

ASDA PA's GIS data clearing house. Discussed with DEP program and consultants.

nd Program Development Grant project is focusing on ed Legacy Alteration Index. Grant extension, contracts and lace.

and monitoring of restoration projects in several watersheds blished with assistance from Federal, State and Private e scientific research and monitoring efforts provide credible developing cost-effective aquatic resource restoration

ed working with PSU to publish Total Wetness Index (TWI) dform mapping that provides foundational data for rm/waterflow paths and project potentials. Both datasets sylvania Spatial Data Access (PASDA).

note the availability of the remote-sensing datasets for use Il restoration sites.

ighlight several LSR projects that have been completed to Academy training showcases the significant environmental ox Run LSR project in Dover Twp., PA, as well as the notable enefits. The webinar touches on some of the long-term cost -environmental benefits realized by the landowner and the <u>chere to access the video</u>.

efforts listed previously and developing Level 2 Geomorphon st with identifying valleys that have been modified and aximize restoration benefits.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
							Cost-	for aquatic	Restoration Community
							effectiveness	resource	restoration project desig
							analysis of FR-	restoration	similar to a site's constra
							LSR project at	projects.	additional training is in t
							Big Spring Run		
							compared with		Over 4,000 breached da
							alternative		Database that represent
							BMP's		going to present the data
							published in		user- friendly manner vi
							2019 that		
							demonstrates		2024 Update:
							the potential of		DEP continues previous
							targeting low		relationships to broaden
							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.		
							Implementation		
							of the		
							Restoration		

ity Predictor Tool released on the PNHP website to assist esigners with selection of vegetation communities that are straints. PNHP staff conducted training to a limited audience, n the planning stages.

dams were geo-located from Pennsylvania's Dam Inventory ents over 100 years of program information. Work is onlata to the public for targeting legacy sediment removal in a via DEP's website.

usly listed efforts and has reinvested in cross-program len these efforts.

Action #	Description	Performance Target(s) and	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	
2.2.9F	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 (This is part of PA's Tree Canopy Action Plan, as published <u>here.</u> )	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	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.		2022 Update: This is a DCNR was informed th seek NFWF feedback in DCNR did not apply for but plans to do so in 20 2023 Update: DCNR's ATBC grant appl consider applying again proposal to the Centra Those grant awards ha applying to NFWF's ne 2024 Update: DCNR's second ATBC g initially making it throut why this application w application in 2025. DC will support both LtH a Appalachian Habitat St of \$400K.

s a new milestone for 2022-2023.

that their ATBC proposal was not awarded in 2022, but will k in 2023 and try again in future years.

for Central Appalachian Stewardship Program funds in 2022, 2023.

application for Forestry work was not funded. DCNR will gain in future rounds, as appropriate. DCNR did submit a tral Appalachian Habitat Stewardship Program to fund buffers. have not yet been announced. DCNR will also consider next CBSP INSR Round in 2024.

C grant application for LtH work was again not funded, after rough the pre-proposal process. DCNR will seek feedback on was not supported by NFWF ATBC, and will consider another DCNR was awarded a \$2M NFWF INSR grant in 2024, which H and RFB work. DCNR was also awarded a Central t Stewardship Program grant to fund RFB work in the amount

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	(This is part of PA's Riparian Forest Buffer Action Strategy, as published <u>here)</u>								
2.2.10F	Evaluate effectiveness of the PA Conservation Reserve Enhancement Program (PA CREP) and identify solutions to boost enrollments / re- enrollments	Work with federal and local partners to evaluate and streamline the existing PA CREP to help boost enrollments and re- enrollments in the program	DEP, USDA-FSA, Conservation Districts	Statewide – Ohio, Chesapeake Bay, Delaware	Beginning 2024	Potential for contractual limitations	DEP continues to invest funds in PA CREP		<b>2023 Update:</b> This is a r <b>2024 Update:</b> The PA CREP evaluation and actionable changes
2.2.11F	Reclaim abandoned mine lands (AML) and construct abandoned mine drainage (AMD) treatment facilities.	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	<ul> <li>2023 Update:</li> <li>Over the life of the prog</li> <li>200 stream miles restor</li> <li>2024 Update:</li> <li>Over the life of the prog</li> <li>200 stream miles restor</li> </ul>
Section 3	, Countywide Acti	ons							
3.2.1	Phase 1 (Pilot and Tier 2 counties): Provide 8 – Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 &	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	DEP External Contractor County Planning Offices County Conservation Districts	Chesapeake Bay	Phase 1: Begins in January 2020, ongoing through 2025 Phase 2: Begins in August	State staffing support Internal and External Coordination Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner in		Total: 21 – Community Clean Water Coordinators \$2,100,000 (\$100,000 per coordinator) Phase 1: 8 – Community Clean Water Coordinators \$200,000	2020 Update: Phase 1 implementation Coordinators were hired Funds were used to fun Phase 2 planning is in p Coordinator positions a Stewardship Funds will No federal funding rece 2021 Update:
	4 counties):	reporting to the DEP Internal	Other County Partners		2020, ongoing	timely manner in order to begin		\$800,000 <b>Phase 2:</b>	Provided funding to sus 8 – Community Clean W

new milestone for 2024-2025.

ion continued through 2024, resulting in recommendations ges that will be pursued in 2025.

rogram, more than 34,000 acres have been reclaimed and > tored.

rogram, more than 34,500 acres have been reclaimed and > tored.

tion is in progress. 8 – Community Clean Water Action Plan ired in Tier 1 & 2 Counties. PA state Environmental Steward fund these positions.

n progress. 10 – Community Clean Water Action Plan s are provided, and the application is open. Environmental vill also be used to fund these positions.

eceived for these positions.

ustain: Water Action Plan Coordinators in Pilot & Tier 2 Counties.

Action #	Description	Performance Target(s) and	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	
	Provide 10 – Community Clean Water Coordinators (External Full Time position)	Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to develop and implement 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.			through 2025	Phase 1. This pushed the schedule back for both Phase 1 and Phase 2.		13 – Community Clean Water Coordinators \$1,300,000	<ul> <li>10 – Community Clean V counties.</li> <li>2022 Update: Provided funding to sust 8 – Community Clean W 10 – Community Clean V counties.</li> <li>2023 Update: Provided funding to sust 8 – Community Clean W 10 – Community Clean V counties.</li> <li>2024 Update: Provided funding to sust 8 – Community Clean W 10 – Community Clean W 10 – Community Clean W</li> <li>10 – Community Clean W</li> <li>10 – Community Clean W</li> </ul>
3.2.2	Phase 1: Provide 3 – Community Clean Water Coordinator (Full Time Internal Coordinator Position) Phase 2: Provide 7 – Community Clean Water	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	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 – CommunityClean WaterCoordinator\$1,000,000(\$100,000 percoordinator)Phase 1:3 – CommunityClean WaterCoordinator\$300,000Phase 2:	2020 Update: DEP Chesapeake Bay Of three Internal coordinat coordinators are curren action leaders and 34 ac 2021 Update: Chesapeake Bay Office I turnover of one earlier i update above. For this utilize existing staff and Conservation District Fie within the Chesapeake I

n Water Action Plan Coordinator positions hired in Tier 3&4

sustain: Water Action Plan Coordinators in Pilot & Tier 2 Counties. In Water Action Plan Coordinator positions hired in Tier 3&4

ustain:

Water Action Plan Coordinators in Pilot & Tier 2 Counties. In Water Action Plan Coordinator positions hired in Tier 3&4

sustain: Water Action Plan Coordinators in Pilot & Tier 2 Counties. In Water Action Plan Coordinator positions hired in Tier 3&4

Office hired one internal Coordinator. This makes a total of nators to support Phase 3 WIP efforts. The three internal ently supporting the coordination of all state agencies, WIP active counties.

te hired one Internal Coordinator in December 2021, with the er in 2021. Staffing challenges continue at same levels as 2020 his reason, DEP developed Region CAP Support Teams, to nd expand their job duties and responsibilities. Two (2) Field Representatives (CDFR) assist with county support ke Bay watershed.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	Coordinator (Full	technical			<u> </u>			7 – Community	Four (4) CDFR positions
	Time Internal	coordinators.						Clean Water	located in the Northeas
	Coordinator							Coordinator	2022.
	Position)	2024-2025 Update:						\$700,000	
		The previous							2022 Update:
		milestone							A total of three DEP Int
		commitments							internal coordinators a
		denoted 10 internal							agencies, WIP action le
		coordinator							The Chesapeake Bay Of
		positions. With the							and Nonpoint Source N
		2020 and 2022							Division was created th
		Reorganizations of							Accountability and Adr
		the Bureau, the							enhancements to the E
		program now has 1							Managers statewide. V
		supervisor, 3							northcentral, and north
		internal							through their normal jo
		coordinators, and 3							Two Watershed Manag
		regionally based							Watershed Accountabi
		watershed							interviews for southcer
		managers to							2022.
		directly support the							
		internal							<b>2023 Update:</b> A total of three DEP Int
		coordination of							internal coordinators a
		Countywide Action							agencies, WIP action le
		Plan							
		implementation.							With the 2022 expansion
		Up to 4 regionally							Watershed Restoration
		based Conservation							Restoration Division co
		District Field							Management Technicia
		Representatives							handle administrative
		provide additional							
		support.							2024 Update:
									A total of three DEP Int
									internal coordinators a
									agencies, WIP action le
									With the 2022 expansion
									Watershed Restoration
									Restoration Division co
									Management Technicia
									Program Specialist to it

ns were posted in November 2021, of which three (3) will be ast and Southcentral regions. Interviews commenced in early

nternal coordinators support Phase 3 WIP efforts. The three are currently supporting the coordination of all state leaders and 34 active counties.

Office expanded into the Bureau of Watershed Restoration Management in fall 2022. A Chesapeake Bay Restoration that includes two sections dedicated to Bay work: Watershed dministration and Chesapeake Bay Partnership. Staff Bureau include centralizing region-based Watershed Watershed Managers that serve the southcentral, theast portion of the state will provide additional support job duties for Chesapeake Bay watershed restoration efforts. ager positions (northcentral and southcentral) report to the bility and Administration Section. Watershed Manager entral and northeast regions were conducted in December

nternal coordinators support Phase 3 WIP efforts. The three are currently supporting the coordination of all state leaders and 34 active counties.

sion of the Chesapeake Bay Office into the Bureau of on and Nonpoint Source Management, the Chesapeake Bay continued the work outlined in 2022 (above) and also added a cian position, funded in part by Chesapeake Bay IIJA, to e duties associated with tracking and reporting funding.

nternal coordinators support Phase 3 WIP efforts. The three are currently supporting the coordination of all state leaders and 34 active counties.

sion of the Chesapeake Bay Office into the Bureau of on and Nonpoint Source Management, the Chesapeake Bay continued the work outlined in 2023 (above), upgraded its cian position to a Program Analyst, and added a Water its Bay Partnership Section.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
3.2.3	Phase 1: Provide 2 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator) Phase 2: Provide 8 – Clean Water Technical Assistance Coordinators (Full Time Technical Coordinator	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 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.	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. Phase 1: preparation for Phase 1, to include development of tools (guides, toolboxes, web- based reporting systems, training) was on schedule.		Total:10 - Clean WaterTechnicalAssistanceCoordinators\$900,000(\$90,000 percoordinator)	<ul> <li>2020 Update:</li> <li>DEP Chesapeake Bay Off</li> <li>DEP maintains a contract</li> <li>provide additional technic</li> <li>to Phase 1 counties for C</li> <li>support was provided weassistance at stakeholde</li> <li>2021 Update:</li> <li>One internal Technical C</li> <li>Basin Commission (SRBC</li> <li>Phase 3 WIP efforts. Support</li> <li>milestones. Phase 2 support</li> <li>development and technical</li> <li>2022 Update:</li> <li>The Chesapeake Bay Part</li> <li>Section Chief and two err</li> <li>contracted Susquehanna</li> <li>additional technical support</li> <li>counties for CAP implementation</li> <li>2023 Update:</li> <li>The Chesapeake Bay Part</li> <li>Section Chief and two err</li> <li>contracted Susquehanna</li> <li>additional technical support</li> <li>counties for CAP implement</li> <li>co</li></ul>

Office hired one internal Technical Coordinator. Additionally, ract with the Susquehanna River Basin Commission (SRBC) to chnical support to Phase 3 WIP efforts. Support was provided or CAP development and implementation support. Phase 2 with CAP technical toolbox development and technical der meetings.

I Coordinator and the DEP-contracted Susquehanna River BC) continue to provide additional technical support to support was provided to Phase 1 counties for CAP ort and numeric progress updates to Pilot counties' CAP upport was provided with CAP technical toolbox nnical assistance at stakeholder meetings.

Partnership Section was created under the new Bureau and a employees will provide technical coordination and the DEPnna River Basin Commission (SRBC) continued to provide upport to Phase 3 WIP efforts. Support was provided to ementation support and numeric progress updates to Tier 2 nes.

Partnership Section Chief and three Water Program Specialist ued to provide internal technical coordination, and the DEPna River Basin Commission (SRBC) continued to provide upport to Phase 3 WIP efforts. Support was provided to ementation support and numeric progress updates to Tier 2 nes. SRBC also provided technical assistance in Conowingo nussel restoration steering committee.

Partnership Section Chief and three Water Program Specialist ued to provide internal technical coordination, and the DEPana River Basin Commission (SRBC) continued to provide upport to Phase 3 WIP efforts. Support was provided to ementation support and numeric progress updates to Tier 2 nes.

Action #	Description	Performance Target(s) and	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	
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	<ul> <li>2020 Update: DEP maintains a contract and planning support for to provide facilitation for</li> <li>2021 Update: DEP maintains a contract and planning support for to provide facilitation for</li> <li>2022 Update: DEP maintains a contract and planning support for to provide facilitation for</li> <li>2023 Update: DEP's Chesapeake Bay W Consulting With a Purpo WIP and CAP efforts. Con for internal and external</li> <li>2024 Update: DEP's Chesapeake Bay W Consulting With a Purpo</li> <li>WIP and CAP efforts. Con for internal and external</li> <li>2024 Update: DEP's Chesapeake Bay W Consulting With a Purpo</li> <li>WIP and CAP efforts. Con for internal and external</li> </ul>
3.2.5	<b>Phase 1:</b> 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         communication coordinat         Work continues to provision         internal and external new         2021 Update:         DEP maintains a contract         communication coordinat         Words That Work contin         support for both internat         2022 Update:         DEP maintains a contract         communication coordinat

act with Consulting With a Purpose to provide facilitation for Phase 3 WIP efforts. Consulting With a Purpose continues for internal and external coordination and county support.

act with Consulting With a Purpose to provide facilitation for Phase 3 WIP efforts. Consulting With a Purpose continues for internal and external coordination and county support.

act with Consulting With a Purpose to provide facilitation for Phase 3 WIP efforts. Consulting With a Purpose continues for internal and external coordination and county support.

v Watershed Restoration Division maintained a contract with pose to provide facilitation and planning support for Phase 3 Consulting With a Purpose continued to provide facilitation nal coordination and county support.

v Watershed Restoration Division maintained a contract with pose to provide facilitation and planning support for Phase 3 Consulting With a Purpose continued to provide facilitation nal coordination and county support.

act with Water Words That Work to provide outreach and ination support for the Phase 3 WIP. Water Words That ovide support for communication tools and support for both needs.

act with Water Words That Work to provide outreach and ination support for the Phase 3 WIP and CAP efforts. Water tinues to provide support for communication tools and nal and external needs.

act with Water Words That Work to provide outreach and ination support for the Phase 3 WIP and CAP efforts. Water

Action #	Description	Performance Target(s) and	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	
									Words That Work contin support for both internal <b>2023 Update:</b> DEP's Chesapeake Bay W with Water Words That Y contractors to Green Wo owned by the same pers disruption to work and t 2023. GWC continued to support for the Phase 3 Y tools and support for bo <b>2024 Update:</b> DEP's Chesapeake Bay W with Green Words Consu communication and cool including developing cor external needs. GWC provides support to annually by conducting i quotes to highlight. GWC inclusion in the report. In they developed a case st a digestible format for di Division's summary of th packaged this for digital

# **Priority Initiative 3: Expanding Capacity for Technical Assistance**

Section	2, State Actions, Pr	ogrammatic and Na	rrative Commitme	nts		
2.3.1	Implement a pilot of the Center for Water Quality Excellence concept in the four pilot counties of Lancaster, York, Adams and	A Request for Proposals will be released and awardee put in place. Assistance will be provided to landowners and municipalities to complete projects.	DEP, Pennvest	Lancaster and York	RFP done April 2020 Pilot done Summer 2021	<b>2020 Update:</b> The vendor for the Center Keystone Safety Services finalized and a Notice to to get the virtual center of 2021. Also, between now outreach at events, assur safety protocols can be n June/July 2021. The Pilor

Progress to Date (2020 – 2021 – 2022 – 2023 - 2024)

tinues to provide support for communication tools and nal and external needs.

Watershed Restoration Division maintained its contract at Work (WWTW) in the first half of 2022, then switched Words Consulting (GWC) when WWTW closed. GWC is erson who was the WWTW project manager, so there was no d the transition was seamless, beginning in second half of to provide outreach and communication and coordination 3 WIP and CAP efforts, including developing communication both internal and external needs.

Watershed Restoration Division maintained its contract nsulting (GWC). GWC continued to provide outreach and pordination support for the Phase 3 WIP and CAP efforts, communication tools and support for both internal and

t to DEP's Chesapeake Bay Watershed Restoration Division g interviews with partners to glean content/stories and WC prepares the annual report template and content for its ... In addition to the annual report support GWC provided, e study distilling the CAP Block Grant history and process into r distribution. They also designed the layout and edited the the work done by Clean Water Progress Teams and cal and print media.

nter for Water Quality Excellence has been selected and is ces, Inc. d/b/a Land Logics Group. Contracts have been to Proceed was issued on November 12, 2020. Next step is er component up and running which is anticipated by May now and May 2021 and beyond the vendor will be doing ssuming those events happen and appropriate COVID-19 be maintained. The physical center should be opening Pilot will focus on Lancaster and York Counties initially.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	Franklin Counties.	Assistance includes outreach and resources (both technical and financial) to municipalities and farmers to implement BMPs.							2021 Update: The <u>Center for Water Q</u> both virtually and with a 2022 Update The Center for Water Q thorough its portal, and relating to the funding of stormwater related issue 2023 Update: The Center for Water Q through its portal, and of relating to the funding of stormwater related issue 2024 Update: The Center for Water Q 2024. Now that County the center has been min
2.3.1A	Initiate Implementation of Pennsylvania's Agriculture Conservation Stewardship Program (ACSP)	Finalize draft program guidance, application, and on- farm assessment tools; 3 <sup>rd</sup> party verification process, pilot program; and release program for initial implementation	Certified Third Parties, CDs, DEP, SCC, PDA	Chesapeake Bay	July 2020 Ongoing				<ul> <li>2020 Update: Development of the PA and staffing challenges.</li> <li>A pilot conducted in Fal methods and alternative verifiers.</li> <li>2021 Update: PDA/SCC renegotiated a resources for the develor</li> <li>2022 Update: The Agric approved by the PA Hou</li> <li>Set up and begin ACAP</li> <li>2023 Update: Discussions on moving f incentivize the PACS pro-</li> </ul>

Quality Excellence funded by PENNVEST is up and running that a store front. 2021-2022 effort is focused on outreach.

Quality Excellence has been providing outreach at events, nd one on one with landowners, farms, and municipalities g opportunities available to address water quality and MS4 ssues.

Quality Excellence continued to provide outreach at events, d one on one with landowners, farms, and municipalities g opportunities available to address water quality and MS4 ssues.

Quality Excellence has reached the end of its contract in ntywide Action Plans are being implemented the impact of ninimized.

PA ACSP is on hold until early 2021 due to COVID challenges es.

Fall/Winter 2019 indicated a need to investigate additional tives to incentivize participation by farmers and third-party

d a contract with EPA for an NPG grant agreement to provide relopment and implementation of PACS

ricultural Conservation Assistance Program (ACAP) was louse and Senate.

P program.

g forward with PACS continued in 2023, including how to program. Regular meetings were held with stakeholder

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
2.3.2A	Work with third- parties, integrators, and co-ops to identify alternative methods to support and assess compliance with regulations without use of regulatory entities	Assess/increase implementation of agricultural plans and BMPs using programs such as those developed by Turkey Hill, Alliance for Chesapeake Bay, and MD/VA Cooperative	Certified Third Parties, Integrators and Cooperatives, DEP	Chesapeake Bay – Animal Producers	December 2025				groups including Chesa and PA Association for S 2024 Update: Extensive stakeholder erelaunch the PACS prog laws by having all major certify farm as a "green including preference for anticipated in 2025. 2020 Update: Ongoing efforts to fund Continue Turkey Hill/ Part Funding and support of https://extension.psu.ere resources/paonestop 2021 Update: Penn State, PDA, SCC, a serve on an Executive C development and enha funding and support for see if PAOneStop could mapping balance sheet Additionally, an online sis be initially used in the 2 Continue to work with the Maryland and Virginia M improve their land and Continue to work with the Maryland and Virginia M improve their land and Continue to work with the conservation plan and E
									2022 Update

sapeake Bay Program in MD, Chesapeake Bay Foundation, or Sustainable Agriculture (PASA).

r engagement occurred in late 2024 as PDA/SCC prepares to ogram statewide, to reward farmers in compliance with state jor plans and also some additionality (above and beyond) to en farm". SCC worked with DEP to develop public incentives, for grant programs and expedited permitting. Relaunch is

nd Penn State College of Agriculture's 2020 Producer Survey.

PennAG Industries efforts to get certain practices credited.

of PAOneStop: u.edu/programs/nutrient-management/planning-

, and DEP hold a joint Letter of Understanding (LOU) and e Committee and Management Committee to oversee the hancements made to <u>PAOneStop</u>. SCC and DEP continue for the PAOneStop program. Discussions are taking place to ald serve as an alternative method to support compliance, et development, manure and nutrient setbacks, etc. e survey mechanism has been developed for PAOneStop to e 2022 Producer Survey data collection.

h the Alliance for the Chesapeake Bay, Giant Foods, and a Milk Cooperative Association to support local dairy farms to nd water.

h the Hershey Company and Alliance for the Chesapeake Bay *Pa,* to support more sustainable and climate friendly dairy the Hershey Milk Chocolate Company.

Clean Water Partnership to incentivize dairy farms to use a d BMPs on their farms.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									Penn State, PDA, SCC, a serve on an Executive C development and enhar funding and support for through state agency fu through the PAOneStop ensure administrative c Continue to work with t Maryland and Virginia N improve their land and v Continue to work with t on <i>Sustainable Dairy Pa</i> , supply chain in Pa for th Continue Turkey Hill Cle conservation plan and B
									<b>2023 Update:</b> PDA, SCC, and DEP had a Alliance for Chesapeake SCC had discussions with be administered by third contracts. In addition, S available for public-prive
									2024 Update: Engagement with privat the state House and Ser public private partnersh for Chesapeake Bay join Conservation Excellence partnerships continue. Trust, Alliance for Chesa Districts). Lastly, discuss sponsors of REAP program
2.3.3A	Implementation of Animal Waste Management Systems (AWMS)	Adequate manure storage for 90% of swine/poultry operations; 75% of	NRCS, CDs, Private Consultants, Swine and Poultry Integrators	Chesapeake Bay – Animal Producers	December 2025	Need to increase amount of licensed P.E's and those with job approval authority in order			2020 Update: Continue to meet with N Committee meetings. C Specialists and Engineer NRCS for PA Association

and DEP hold a joint Letter of Understanding (LOU) and Committee and Management Committee to oversee the nancements made to <u>PAOneStop</u>. SCC and DEP continue for the PAOneStop program. Enhancements supported funding include the implementation of a standard template op tool for Ag E&S Plan and Manure Management Plans, to e completeness.

h the Alliance for the Chesapeake Bay, Giant Foods, and a Milk Cooperative Association to support local dairy farms to ad water.

n the Hershey Company and Alliance for the Chesapeake Bay Pa, to support more sustainable and climate friendly dairy the Hershey Milk Chocolate Company.

Clean Water Partnership to incentivize dairy farms to use a BMPs on their farms.

d meetings with officials from EPA, Hershey Foods, and ke Bay regarding funding for new public-private partnership. vith Lancaster Clean Water Partners on whether ACAP could nird parties to streamline processes around bidding and I, SCC is making its recent Most Effective Basin (MEB) award rivate partnerships.

vate industry continued in 2024, including a joint hearing of senate Ag committees at Ag Progress Days event to showcase rships in conservation, with Hershey Company and Alliance bining SCC and NRCS to testify. Plans to continue using nee Grant program (CEG) to enhance public private e. Four projects were funded in 2024 (Lancaster Farmland esapeake Bay, Centre and Franklin County Conservation ussions occurred on ways to engage more with private gram tax credits.

h NRCS and other ag partners during the Quarterly Technical Continued funds via CBIG for Chesapeake Bay Engineering eer Assistants, as well as state funds for joint funding with on of Conservation Districts Engineer Specialists in the four

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		all other animal				to meet PA	Financiai	Filialicial	pilot counties. NRCS co
		types				regulatory			Conservation District ag
		,,				requirements for			
						liquid storages.			Penn State University h
						Need to increase			graduating students for
						number of			
						qualified engineers			CEG and CAP Implemen
						for solid storages.			counties to allocate for
									needed to meet the nee
									and semi-solid storages
									2021 Update:
									CEG and REAP program
									AWMS implementation
									technical assistance and
									DEP, SCC, NRCS, and PA
									engineering and technic
									Chesapeake Bay Engine
									Conservation Initiative
									Conversations are ongo
									from these funding prog
									2022 Update:
									SCC in planning phase o
									capacity related to the r
									doubling up of funds un
									2023 Update:
									The new Center for Ag
									running at Penn State U
									was created to help add
									Seeking a dedicated fur
									beyond 2026.
									469 implemented Wast
									were verified and repor
									2024 Update:
									The most significant AC
									Heavy Use Area protect
									funding. In addition, th
									state budget, will suppo

continues to provide training and Job Approval Authority for ag technician staff.

has initiated a conservation training curriculum to prepare or a career in ag conservation.

entation Grants, for instance, are available for pilot and Tier 2 or AWMS implementation. However, further funds are needs for technical assistance and engineering design of liquid es.

ms are available for Tier 1 and Tier 2 counties to allocate for on. However, further funds are needed to meet the needs for nd engineering design of liquid and semi-solid storages.

PACD continue to work together to provide funding for nical support staff via Chesapeake Bay Technicians, neer Assistants and Specialists, Chesapeake Bay Watershed e (CBWCI), and Technical Assistance Grant (TAG). going regarding effective and efficient deployment of services rograms and staff.

of developing a Technical Assistance Center to build e new Ag Conservation Assistance Program and the potential under EQIP/CSP.

g Conservation Technical Assistance is staffed and up and University, in partnership with SCC and NRCS. The center ddress need for capacity in the short and longer term. und for ACAP will be crucial to keeping the center going

ste Storage facilities and Dry Waste Storage Structure RI orted toward Pennsylvania's annual numeric progress.

ACAP investments are going towards animal agriculture with tections and Manure Storage structures receiving the most , the new Ag Innovation Fund provided for under the FY 24/25 pport new technologies related to animal waste.

Action #	Description	Performance Target(s) and	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	
2.3.4A	Develop web- based and in- person training for Manure Management Planning and Agriculture Erosion and Sediment Control Planning	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 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.			<ul> <li>2020 Update: Four web-based training staff and opened for put</li> <li>Entered into agreement curriculum as well as to Manual.</li> <li>2021 Update: Penn State is in develop E&amp;S Plan reporting tem</li> <li>Ag E&amp;S Plan and Manur DEP's Clean Water Acad</li> <li>2022 Update: Work with Penn State c E&amp;S Plan curriculum. M is currently under revision</li> <li>2023 Update: The draft revision to the Document was published published in mid-2024.</li> <li>2024 Update: The final revised Manur published in April 2024.</li> </ul>
2.3.5A	Focus agricultural technical assistance and financial resources in areas of highest need and impact to the Chesapeake Bay, to include targeted watershed approach		DEP, SCC, PDA	Chesapeake Bay	Ongoing Beginning July 2020				<ul> <li>2020 Update:</li> <li>Both CEG and the new I out based on the Phase discussion at 2.2.1.</li> <li>2021 Update:</li> <li>The SCC continues to ta million for agricultural E Nutrient Management I districts, with Chesapea the FTE funding.</li> <li>Governor Wolf announe "30 by 30" initiative, wi</li> </ul>

ning modules for the Ag E&S Manual were developed by DEP public consumption on DEP's Clean Water Academy.

ent with Penn State Extension to create additional in-person to ensure consistency between PAOneStop and the Ag E&S

lopment of curriculum as well as finalizing the PAOneStop Ag emplate and instructions.

nure Management Plan modules continue to be provided via cademy.

e continues for the development and implementation of Ag Manure Management Manual Technical Guidance Document *i*sion, with draft slated for publication in 2023.

the Manure Management Manual Technical Guidance shed for public comment in 2023. The final version will be 4.

nure Management Manual Technical Guidance Document was 24.

w DEP phase 2 inspection funding (for BMPs) is being rolled use 3 WIP Tiered Counties priority status. See the CEG

target resources at Tier 1 and 2 counties. Approximately \$10 al BMPs is funded through CEG and REAP. Additionally, the nt Program funds full time staff (FTEs) at conservation beake Bay watershed conservation districts making up 85% of

unced support of the Chesapeake Conservancy and partners' with a goal to delist 30 stream segments for agricultural

Action #	Description	Performance Target(s) and	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	
									impairments by 2030. C "rapid delisting" approa Huntingdon, and Centre Conservancy and county financial and technical a targeted watersheds in I <b>2022 Update:</b> DEP 2022 Growing Gree Initiative, which will furt segments listed for agric for successful restoratio practices within one or r at \$750k per project, an
									assessments and plannin of this phased approach through a following year NRCS, PENNVEST, SCC, e <b>2023 Update:</b> ACAP funds are distribut of animal operations and CEG program is available provides higher incentiv
									DEP continued to suppo Greener Watershed Ren Section 319 Watershed the CAP Implementation
									<b>2024 Update:</b> ACAP funds are distribut of animal operations and CEG program is available provides higher incentiv assistance is being addre Assistance Training (CAC is designed to increase t
2.3.6A	Coordinate existing technical assistance for more effective	Work with federal, state, local agencies as well as private and nonprofit	DEP, SCC, NRCS, PACD, Private Consultants, Nonprofits	Chesapeake Bay	2023	Swift and effective deployment of services requires additional staff at			<b>2022 Update:</b> Discussions began in lat throughout the Chesape 2023.

Currently, there are 39 stream segments identified for this oach in Lancaster, Union, Clinton, Snyder, Lycoming, tre Counties. DEP continues to work with the Chesapeake nty partners to support this endeavor through targeted I assistance, such as through EPA State Capacity Grant for in Lancaster County.

eener Plus grant included the Renaissance Watershed urther support targeting of practices to small stream gricultural impairment and that identified to have confidence tion. Project applications were submitted by aggregating or more stream segments, with the initial Phase being capped and would include education and outreach, farm uning, surveying and inventorying, and design. The purpose ch was to set the projects up for success, whether it is ear of Growing Greener or another funding source, such as C, etc.

buted to counties based on a formula that considers number and number of farms and impaired stream miles. In addition, ble for Tier 1 and 2 counties. Lastly, REAP tax credit program tives for location of farms in Tier 1 and 2 counties.

port targeted watershed approaches through the Growing Renaissance Initiative, Rapid Stream Delisting Approach, ed Based Planning, etc. Funds continued to be allocated in ion grant program based on Tier level and local impairments.

buted to counties based on a formula that considers number and number of farms and impaired stream miles. In addition, ble for Tier 1 and 2 counties. Lastly, REAP tax credit program tives for location of farms in Tier 1 and 2 counties. Technical dressed through the new Center for Ag Conservation (ACAT) which is funded by the Commission through ACAP. It e technical assistance in the Bay watershed and statewide.

late 2021 based on CAP needs identified in multiple counties peake Bay Watershed. This is a new milestone for 2022-

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	and efficient deployment of services	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				the federal, state, and local level as well as additional private industry capacity			SCC in planning phase of capacity related to the n doubling up of funds und Technicians, Engineer Sp provide funding, along v (TAG) program statewid Chesapeake Bay Waters pilot counties. <b>2023 Update:</b> As noted above, the nev ACAP administrative fun to meet on at least a qua <b>2024 Update:</b> Gaps in financial and tec with unique but significa Commission programing currently receive the mo a growing sector of PA's additional assistance.
2.3.7A	PA Sustainable Agriculture Grant Program	2024-2025 Update: Sustainable agriculture practices will be supported through grant funding in MEB of PA	State Conservation Commission, Farmers, land owners	PA MEB Region	Begins July 2024		\$1 million for year one		2023 Update: This is a new milestone f 2024 Update: The Sustainable Ag Boar published. Grants will b Program will provide an Pennsylvania's Phase 3 M
2.3.8A	PA Agriculture Conservation Research Grant Program	2024-2025 Update: Research on pressing conservation issues in Pennsylvania will be supported through grants to leading Universities and researchers.	State Conservation Commission, PDA, Universities	Statewide	Begins June 2024		\$1.5 million		2023 Update: This is a new milestone f 2024 Update: Multiple awards includir action on dairy farms; Pe nutrient and sediment re organic operations; Phos phosphorus efficiency fo Institute to study reduct enhance soil, water, air assessment of riparian b

of developing a Technical Assistance Center to build e new Ag Conservation Assistance Program and the potential under EQIP/CSP. DEP continues to fund Chesapeake Bay Specialists, and Engineer Assistants. DEP continues to g with NRCS, toward the PACD Technical Assistance Grant vide. DEP also provides funding, along with NRCS, to the ershed Conservation Initiative (CBWCI) Program in the four

new technical assistance center, which is funded through Funds, is up and running. DEP, SCC, NRCS, and PACD continue quarterly basis to discuss technical assistance programs.

echnical assistance for small, diversified farming operations icant conservation needs will be addressed through future ing, including the Sustainable Ag Board. Conventional farms most of the ACAP funds, which is effective. However, there is A's ag economy, including organic production, that requires

ne for 2024-2025.

bard met twice in 2024, and program guidelines are currently Il begin being awarded in 2025, using EPA's IIJA MEB funds. an intentional focus on "soil health" as called out in 3 WIP as a priority.

ne for 2024-2025.

ding Clear Climate Strategies to study science-based climate Penn State University to study solutions for reducing t runoff from ag and reduced tillage and no-till methods for nospolutions to study use of novel solution to enhance of for land application of manure, Resource Innovation actions in food waste and make efficient use of byproducts to ir quality' and Stroud Water Research to study carbon stock n buffers.

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies)</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	
2.3.9A	Ag Plan Reimbursement Program	<ul> <li>Work with PA</li> <li>Association Of</li> <li>Conservation</li> <li>districts to continue</li> <li>to implement a</li> <li>program to</li> <li>reimburse farmers</li> <li>for obtaining</li> <li>conservation plan,</li> <li>ag E&amp;S plan,</li> <li>manure</li> <li>management plan</li> <li>or nutrient</li> <li>management plan.</li> <li>Previous Ag Plan</li> <li>Reimbursement</li> <li>Programs were</li> <li>funded through</li> <li>DEP Environmental</li> <li>Stewardship</li> <li>Funds/Growing</li> <li>Greener</li> </ul>	SCC, PA Association of Conservation Districts and the County Conservation Districts	Statewide	Ongoing with funding through December of 2026.	Ensuring funding of plans leads to future BMP installation. Coordinating with county conservation districts to help direct funding to areas with most need for BMPs.	Total of \$1.1M available through 2026 of federal ARPA funds. Technical assistance provided by county conservation districts and private sector consultants.	Funding after 2026	2023 Update: This is a new milestone 2024 Update: Contract with PACD has backlog of plans. Plans a review.
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.			<ul> <li>2020 Update: DCNR is currently in the would focus partly on riavailable to help partne implementation work w</li> <li>Further, various implementation work w</li> <li>Further, various implement be utilized in some fash to implement buffers.</li> <li>DCNR and the Alliance for with barriers to employ entrepreneurs through the structure of the structure of</li></ul>

ne for 2024-2025.

has been fully executed and funding is available to address hs are entered into PracticeKeeper upon completion and

the process of filling a new Commonwealth position that n riparian forest buffers, and continued to make C2P2 grants oner organizations fund positions for buffer outreach and k with landowners.

ementation funding for buffers made available by DCNR can shion to provide money to buffer contractors/entrepreneurs

te for the Chesapeake Bay continue to work with individuals oyment to encourage new buffer planting and maintenance gh the Correctional Conservation Collaborative program.

one additional position focused on Watershed Forestry oversion) in early 2021.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									DCNR was also awarded position for two years, a of three more individual via their agreement with finalized.
									The trainings for individual planting and maintenan Chesapeake Bay, were h to reopen to guests, DCI Although no Correctiona DCNR did wrap up work program in 2021, and a developed for DCNR and Conservation Landscapin
									<b>2022 Update:</b> DCNR has created five n which will serve as adde the Bay Watershed. Two regional positions provid these new positions to h
									As of fall 2022, all seven outreach, planning, and
									<b>2023 Update:</b> DCNR's new Regional W and are active in their re capacity in PA across the maintain and/or expand projects greatly outpace
									<b>2024 Update:</b> DCNR's Regional Waters regions, building partne implementation projects the team continues to se
2.3.2F	Increase Urban Forestry Technical Assistance	Fund positions within the Commonwealth system and with	DCNR, TreePennsylvania, Penn State	Chesapeake Bay	Ongoing	Funding, overhead, space, capacity, available candidates, on-			2020 Update: Nothing new to report. 2021 Update:

ed a NFWF INSR grant that supports an additional new , as well as a grant from the USFS that will support the hiring uals for one year. DCNR hopes to fill these four new positions rith WPC in early 2022, once the grant contracts have been

viduals with barriers to employment to encourage new buffer ance entrepreneurs, in partnership with the Alliance for the e halted due to the COVID pandemic. When prisons are able DCNR and the Alliance hope to reinvigorate this program. onal Conservation Collaborative programs were held in 2021, ork on a Chesapeake Bay Trust-funded GIT grant for the l a training manual as well as maps of opportunities was and partners by the project contractor, Chesapeake aping Council.

e new Regional Watershed Forestry Specialist Positions, Ided technical assistance capacity across PA, with a focus on wo current RWFS positions exist, bringing the total of oviding TA support in PA up to seven. DCNR plans to utilize o help create additional capacity within each region.

ren RWFS positions have been filled, and are working on nd planting projects.

Watershed Forestry Specialists have been fully onboarded regions. This has greatly increased technical assistance the watershed. DCNR plans to continue to seek funds to nd this team. Due to expanded TA capacity, demand for ices funding availability.

ershed Forestry Specialists continue their work in their nerships and working with landowners to develop ects. Demand for projects outpaces funding availability, but o seek funding to implement projects they are developing.

Action #	Description	Performance Target(s) and	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	
	Available to Communities and Citizens.	partner organizations.	Extension, PHS, etc.			boarding process, hiring process, etc.			DCNR hired a Tree Equi engagement. 2022 Update: DCNR created a new Ch and the new hire starter 2023 Update: DCNR hired a Regional the Bay Watershed in la assistance capacity for increased federal fundi Forestry in 2024. 2024 Update: DCNR hired two addition in 2024. These new pos- environmental justice of
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.	DCNR, Alliance for the Chesapeake Bay, Pheasants Forever, PGC, TreePennsylvania, PSU, etc.	PA Bay-wide	By 2022	Creating a new program- start-up costs, time, approvals, budgets, etc. Implementation requires additional funds to sustain program.			<ul> <li>2020 Update: See above on launch of Advisory Committee is landowners and contra</li> <li>2021 Update: DCNR intends to fully in program. All new hires grants will be trained in assistance.</li> <li>There is still a strong ne to help meet intense de</li> <li>2022 Update: The five new RWFS post turf-conversion TA as w</li> <li>DCNR has now integrat Program and provides T</li> <li>2023 Update: DCNR's new RWFS post across the watershed in</li> </ul>

uity Specialist to focus on community outreach and

Chesapeake Bay Watershed-focused TreeVitalize position, ted in late 2022.

al Urban and Community Forestry (UCF) position focused on a late 2022. This position has already increased technical or UCF work in the Watershed. DCNR intends to utilize ding to develop additional capacity for Urban and Community

tional new Regional Urban and Community Forestry positions ositions will increase TA availability, especially in e communities within the Bay Watershed.

of new Lawn Conversion Program. The Lawn Conversion is working on technical guidance documents and trainings for ractors, as well as local government and NGO partners.

r incorporate Lawn Conversion into its watershed forestry es for positions that will be developed out of recently received in both Lawn Conversion and Riparian Forest Buffer technical

need for additional technical assistance for Lawn Conversion demand from landowners.

ositions created by DCNR will not only provide RFB TA, but well. See 2.3.1F

ated Lawn Conversion fully into its Watershed Forestry s TA and funding to landowners across the Commonwealth.

ositions are providing technical assistance to landowners I in PA. Demand for projects outpaces funding availability.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
2.3.4F	Provide informed technical assistance for stream and wetland restoration projects to ensure they are completed in an adequate, reportable	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	Clean Water Academy technical assistance contract in place to develop training courses for the Clean Water Academy to assist CCD and DEP staff in	Financial Financial	DCNR intends to develop the need for financial re <b>2024 Update:</b> DCNR's new RWFS posit across the watershed in DCNR continues work or without the need for fin guide in 2025. <b>2020 Update:</b> 1. General Permit processessions under developed determinations and env 2. DEP staff participated stream and wetland rest Removal projects. <b>2021 Update:</b> Engaging in a STAC BMP
	manner.					communicating	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	Existing monitoring and assessment programs for streams and other aquatic resources must identify and report additional impairments, including legacy sediments and other legacy alterations.	presenter planned for 2 consequences. <b>2022 Update:</b> Several DEP staff partici DEP provided the PA Sta Plan, presenting to the I several barriers, includin strategic plan objectives <b>2023 Update:</b> Introduction to Guiding finalized and posted to t and four summary prese and roll-out of this train Alterations and Effect an and expected to be final Staff are assisting with t (PCSWM) manual revisio

lop more DIY resources for landowners to access TA without resources.

sitions are providing technical assistance to landowners in PA. Demand for projects outpaces funding availability. on developing DIY resources for landowners to access TA financial resources. DCNR intends to release a DIY meadow

cessing training sessions completed. Additional training opment for late 2020 and 2021 targeting compensation nvironmental assessment restoration plan approvals.

ed in Chesapeake Bay Program's 2020 efforts to improve estoration definitions and crediting for Legacy Sediment

MP crediting workshop as a Steering Committee member and <sup>r</sup> 2022 regarding multi-benefit accounting and unintended

ticipated in the Wetlands Outcome Attainability Workshop. State Action Plan, which included in the final Wetlands Action and Management Board in December 2022. PA highlighted ading lack of staff and funding capacity, and detailed several wes.

ng Principles of Aquatic Ecosystem Restoration training was to the Clean Water Academy. Two comprehensive webinars esentations were also conducted as part of the development aining. Additional more in-depth trainings on Watershed t and Practitioners Perspective training are underway in 2023 nal in 2024.

n the Post Construction Stormwater Water Management sions related to stream and wetland restoration, specifically

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies)</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	
							to state and federal regulations including Chapter 102, Chapter 105/106 and Section 401 Water Quality Certifications		the Floodplain Restorat PCSWM manual langua Coordination work has TMDL program explorin plans. <b>2024 Update:</b> DEP continues previous relationships to broade
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.			<ul> <li>2020 Update: Completed: Four Fisher Northcentral stream re- region.</li> <li>2021 Update: PFBC has made signification initiative in the Northce part of the watershed. restoration projects.</li> <li>2022 Update: PFBC continues to build maintaining our partne partners on 35 stream of 2023 Update: PFBC continues to build maintaining our partne partners on 35 stream of 2024 Update: PFBC continues to build maintaining our partne partners on 35 stream of 2024 Update: PFBC continues to build maintaining our partne partners on 41 stream of partners on 41 stream of 2024 Update:</li> </ul>
2.3.5F(i)	Hire 5 new Regional Watershed Forestry Specialists to assist with Lawn Conversion and	Hire RWFS for the newly created NW, Western, SW, Central, and NE regions. Continue to keep the already- existing SE	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 All five new positions w 2023 Update:

ration stormwater control measures. Redrafting of the uage is underway.

as been on-going with providing technical expertise to the ring stream restoration as part of alternative restoration

busly listed efforts and has reinvested in cross-program den these efforts.

neries Biologists were hired in 2020 to expand the restoration model in the NC region and move into the SC

icant progress on the expansion of the stream restoration neentral PA region while adding resources to the Southcentral d. PFBC also added four more staff in 2021 to assist with

uild partnerships in the southcentral region of the state while nerships in the northcentral region. PFBC staff worked with m restoration projects that improved over 7 miles of stream.

uild partnerships in the southcentral region of the state while nerships in the northcentral region. PFBC staff worked with m restoration projects that improved 6 miles of stream.

ild partnerships in the southcentral region of the state while nerships in the northcentral region. PFBC staff worked with n restoration projects that improved 6.74 miles of stream.

ne for 2022-2023.

were filled in August of 2022.

	Target(s) and	Responsible Party( <u>ies</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	
Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven.	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.							All 7 RWFS positions an the DCNR Watershed F positions in future year <b>2024 Update:</b> All 7 current RWFS posi near future, as the regi SC/SEPA where a large DCNR currently does no
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				<ul> <li>2022 Update: This is a new milestone</li> <li>This was fully accompling future grant rounds.</li> <li>2023 Update: Technical assistance is</li> <li>2024 Update: Technical assistance rest</li> </ul>
Complete revisions to the Pennsylvania Stormwater BMP Manual		DEP, Villanova University and subcontractor	Statewide	Draft 2022- 2023 Final 2023				2020 Update: A preliminary draft is n workgroup for review a 2021 Update: The updated BMP man engagement and comm 2022 Update: The new PCSM Manual was presented to DEP's 2022 and is expected to 2023 Update:
	Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven. Incorporate Technical Assistance funds into C2P2 grants for lawn conversion, riparian forest buffers, and TreeVitalize	Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven.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.Incorporate Technical Assistance funds into C2P2 grants for lawn conversion, riparian forest buffers, and TreeVitalizeMake funding available to partners so they may increase their own staff able to provide TA to landowners and other partners.Complete revisions to the Pennsylvania Stormwater BMPMake Sum	Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven.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.Incorporate Technical Assistance funds into C2P2 grants for lawn conversion, riparian forest buffers, and TreeVitalizeMake funding available to partners so they may increase their own staff able to provide TA to landowners and other partners.DCNRComplete revisions to the pennsylvania Stormwater BMPDEP, Villanova university and subcontractor	Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven.and SC RWFS positions will focus on the Bay counties within their regions. All regions touch part of the Bay watershed.and SC RWFS positions will focus on the Bay counties within their regions. All regions touch part of the Bay watershed.and SC RWFS positions will focus on the Bay counties within their regions. All regions touch part of the Bay watershed.and SC RWFS positions toll part positions to partners so they may increase their own staff able to provide TA to landowners and other partners.DCNRBaywideComplete revisions to the Pennsylvania Stormwater BMPMake funding available to partners so they may increase their own staff able to provide TA to landowners and other partners.DCNRBaywideComplete revisions to the Pennsylvania Stormwater BMPDEP, Villanova university and subcontractorStatewide	Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershed Forestry Specialist positions to seven.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.and SC RWFS positions will for the Bay counties within their regions. All regions touch part of the Bay watershed.and SC RWFS positions to positions to seven.and SC RWFS positions to seven.and SC RWFS positions to partners so they may increase their own staff able to partners.DCNRBaywideBegins 2022Complete revisions to the perturbations to the partners and other partners.DEP, Villanova unversity and subcontractorStatewideDraft 2022- 2023 Final 2023	Riparian Forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershedand SC RWFS positions filled. All RWFS positions will focus on the Bay watershed.and SC RWFS positions will focus on the Bay their regions. All regions touch part of the Bay watershed.and SC RWFS positions will focus on the Bay their regions. All regions touch part of the Bay watershed.and SC RWFS positions will for Bay watershed.RecommendationsIncorporate Technical Assistance funds into C2P2 grants for lawn conversion, riparian forest buffers, and TreeVitalizeMake funding available to partners.DCNRBaywide Baywide Baywide Baywide Baywide Baywide Baywide Baywide Baywide SourpersideBegins 2022Complete revisions to the Pennsylvania Stormwater BMPDEP, Villanova university and subcontractorStatewide Statewide Draft 2022- 2023 Final 2023	Image: constraint forest Buffer Technical Assistance via the Master Agreement with Western PA Conservancy, increasing total number of Regional Watershedand SC RWFS positions will focus on the Bay counties within their regions. All regions touch part of the Bay watershed.and SC RWFS positions will focus on the Bay watershed.and SC RWFS positions to seven.and SC RWFS positions will focus on the Bay watershed.and SC RWFS positions to seven.and Se funding positions to seven.and Se funding positions to seven.and Se funding positions to seven.DCNRBaywide segins 2022Begins 2022Segins solutionIncorporate for lawn conversion, riparian forest buffers, and Tree/VtalizeDCNRBaywide subon as the bit of provide TA to landowners and other partners.DCNRBaywide subon as the bit of provide TA to landowners and other partners.Begins 2022Segins 2023Segins solution as the bit of provide TA to landowners and subcontractorComplete revisions to the Pennsylvania Stormwater BMPDEP, Villanova subcontractor	Image: constraint of the same state st

are filled and have been fully onboarded and integrated into I Forestry Team. DCNR will work to maintain funding for these pars.

ositions remain filled. DCNR intends to hire an 8<sup>th</sup> RWFS in the gions were rearranged slightly in 2024 to alleviate pressure in ge demand for work exists. As a result of this restructure, not have an RWFS focused on NEPA.

ne for 2022-2023.

plished for the Fall 2022 grant round and will be in place for all

is now a fully fundable activity under C2P2 CWF Grants.

remains a fully fundable activity under C2P2 CWF Grants.

nearly complete and will be shared with an internal v and comment in the near future.

anual is still under development with a plan for public nment in 2022.

ial (draft) is complete and was shared with EPA in 2022. It P's Water Resources Advisory Committee on November 17, to be published for public comment in 2023.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									The <u>draft Pennsylvania</u> January 28, 2023. DEP of responding to <u>comm</u> <b>2024 Update:</b> DEP and Villanova cont make changes to the fin planning to develop im
2.3.25	Revise the Compliance and Enforcement Manual for Construction Stormwater		DEP, Conservation Districts	Statewide	December 2023				<ul> <li>this work the final man</li> <li>2022 Update:</li> <li>DEP has published a nerfirst step in development training on how to conditional training on</li></ul>
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				do not submit a renewa 2020 Update: Existing Wastewater Technical A provided by EPA to pur 2021 Update: Wastewater Technical A by EPA to purchase neo 2022 Update: Wastewater Treatment Lebanon County (Swata Perry County, continue Bedford STP in Bedford Technical Assistance wa County, Sullivan Towns

ia PCSM Manual was published for public comment on P and its contractor, Villanova University, are in the process ments and finalizing the manual.

ntinue to process the 1,700 public comments received and final manual. Before publishing the final manual, DEP is mplementation tools and a 20-hour training program. Given anual will not likely be published in 2025.

new Chapter 102 inspection report in October 2022 as the nent of this manual. The next step is to finalize an SOP and induct construction stormwater inspections.

102 Inspection SOP for conservation districts on July 1, 2023 monthly webinar trainings over the next year. On October 1, SOP for Calculating Civil Penalties and an updated Clean Spreadsheet for use by Chapter 102 compliance staff.

n Water has updated the Chapter 102 inspection report to with the reissued PAG-02 General Permit, which became er 8, 2024. DEP also prepared a standard operating addressing non-compliance when PAG-02 permitted projects wal NOI.

Technical Assistance program continues. Funds have been urchase necessary supplies and equipment.

Il Assistance program continues. Funds have been provided ecessary supplies and equipment.

nt Evaluations (WTE) were conducted Cornwall Borough in atara Creek / Susquehanna River Basin) Cowans Gap STP in ued work at Guest Farm Village in Franklin County, and rd County.

was provided to Mont Alto Municipal Authority in Franklin nship Sewage Treatment Plant in Tioga County, Northeastern

Action #	Description	Performance Target(s) and	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	
									Schuylkill Joint Municipa Municipal Authority, Wells Creek STP in Some Cambria County, Newpo County, Curwensville ST and Lancaster County Bi <b>2023 Update:</b> Technical Assistance wa Fleetwood Borough STP Buffalo State Park, Prince Cooper Township, Pine Oaks WWTP, Brady Tow State Park. <b>2024 Update:</b> Technical Assistance wa County JMA, Factoryville
									Bald Eagle State Park, El STP, Lawrenceville Boro South Mountain Restora Borough and Cornwall B
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 Assist 2021 Update: Wastewater Technical A by EPA to provide enhan calibration of equipmen 2022 Update: Field meter sets with ins offices, totaling 36 meter inspections. Training or the time of deployment
									<b>2023 Update:</b> Equipment purchased in that integrate with the e consumable pH and oxid kit were also bought. Tw replacement of obsolete

ipal Authority in Schuylkill County, Somerset Township

merset County, Hastings Borough Municipal Authority in port Borough in Perry County, West Branch STP in Cambria STP in Clearfield County, Hollow Creek STP in York County, Bible School in Lancaster County.

was completed at Pine Grove STP, Cornwall Borough, TP, Bedford STP, Wellsboro STP, Somerset Borough, Little nce Gallitzin State Park, Curwensville Sewer Authority, e Grove Joint Treatment Authority, Penn Estates STP, White ownship, Blue Ridge Sportsman Association, and Shawnee

vas provided at Fleetwood Borough, Northeast Schuylkill ille WWTP, Curwensville WWTP, Amity Township WWTP, Elk Mountain Ski Resort, Sligo Borough STP, Distant Sewage rough Authority WWTP, Vale Wood Farms Dairy Lagoons, pration Center. Ongoing consultations continue at Bedford I Borough.

stance program continues.

l Assistance program continues. Funds have been provided nanced technical assistance and perform servicing and ent.

instrumentation have been distributed to 6 of 6 regional eters to be used for regional office staff during POTW on use and calibration of the meters was provided to staff at nt.

included: Suspended solids, ammonium, and nitrate probes e existing field equipment. Two each replacement xidation/reduction potential probes, and a field chlorimeter Two dissolved oxygen probes. This requisition also included ete probe mounts, automated cleaning unit for ammonium

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									<ul> <li>probe and LDO probe, relaboratory supplies and 3 Core samplers for tem bench service, calibratio probes.</li> <li><b>2024 Update:</b> Equipment purchased in Gateway as wireless dat replacement of consuma probe, 2 LBOD probe, 2p repairs included 3 ammorprobes and 1 probe contained temporary distribution t spectrophotometers, 4 centralized work and stor 8 locking cabinets, 4 she retrofitted a surplus trai is not always available. </li> </ul>
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				<ul> <li>2020 Update: Existing Technical Assista</li> <li>2021 Update: Wastewater Technical Annutrient loads was provised 2022 Update: DEP has provided an act 6 regions. Trainings were PennTech Conferences. Training related to reduce unique facilities.</li> <li>2023 Update: Staff have provided 16-h Rural and PennTech Con Operators in 3 regions an Additionally, our Profess Rural and PennTech Con Removal course was proprior</li> </ul>

, replacement BUS cable for networking, and routine nd test kit reagents. As well as, 3 Raven Process Centrifuges & emporary distribution to T.A. clients and High-end probe tion, & repair: 2 ammonia, 1 nitrate, 1 organic carbon

included: 2 cellular enabled probe controllers and 1 Data lata telemetry continues to become dominant. Routine mable probes included 2 pHDsc probes, 1 conductivity 2pipettes, 6 pipettors. High end probe bench service or monium, 3 nitrate, 3 total organic carbon, 4 suspended solids ontroller screen replacement. Equipment purchased for n to T.A clients included 4 solids centrifuge, 2 4 core samplers, 10 settleometers, 1 composite sampler and ss monitoring and testing. Purchases were also made to the storage area to increase security and storage area to include helving units and 2 safety gates. In-house staff also railer to serve as a field laboratory at sites where work space

stance program continues.

Assistance program continues. Training related to reducing by ided for wastewater staff at nine facilities.

activated sludge training course to Clean Water staff in in all ere also provided to certified operators at PA Rural and s.

ducing nutrient loads was provided for wastewater staff at 11

5-hr. Activated Sludge Courses to certified operators at PA onferences as well as DCNR State Park Wastewater and an additional course to operators in Bradford. essional Wastewater Operators course was provided at PA onferences and our Instrumentation for Biological Nutrient provided at PA Rural Water Conference.

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									On-demand video traini Technical Assistance sta set purchased with this storage, maintenance, c <b>2024 Update:</b> Staff have provided 16-H Rural and PennTech Cor Westmoreland Conserva Staff have conducted tra compendium of operato regulatory reporting, as presented at PRWA and attendees at the 2024 S Forum at Albright College provided by the PADEP Additional courses were organizations on use of effluent quality and redu
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 Committee. Draft for pur 2023 Update: Document being routed 2024 Update: A draft version of the M published for public con

ning was developed, produced, and launched by BCW taff as a resource for field staff who received the field meter is grant funding and deployed in 2022. This training covers , calibration and field use of meters.

6-hr. Activated Sludge Courses to certified operators at PA conferences, DCNR Parks Region, PA DEP Knox District Office, rvation District, and Upper Montgomery Township. training on Responsibilities of Professional Operators, a ator work ethics, site security, permit obligations and asset management, and cyber security. These were nd PWEA annual conferences. Training was provided to 4 Schuylkill Action Network (SAN) Southeast water Utility lege in Reading PA that included review of the services P Wastewater Technical Assistance Program. ere offered at meetings of regional water quality of wastewater treatment instrumentation for improving educing nutrient loads.

e for 2022-2023. Pre-draft presented to Advisory public comment expected early 2023.

ed for approval to publish as draft for public comment.

Manual for Land Treatment of Treated Wastewater was omment.

Action #	Description	Performance Target(s) and	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	
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 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.	DEP, PENNVEST	Statewide	Ongoing – Contract through SFY 22-23 with possibility of 1 yr extension		Technical		<ul> <li>2022 Update: This is a new milestone 2022. Two proposals w staff, evaluated the pro- recommendation to the recommended offer at begin contract negotiat Group Team; this Team issued on November 18</li> <li>2023 Update: Funding for the contract result of the success of with additional funding effort.</li> <li>2024 Update: Funding for the contract result of the success of with additional funding effort.</li> </ul>
Section 9	, Climate Change	initiastructure Law.							
9.3.1C	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 C Posted on DEP Climate <u>https://www.dep.pa.go</u> 2021 and 2022 Update Completed in 2020. No
9.3.2C	Pennsylvania Climate Academy	Reduce an additional 1.81 million pounds of nitrogen and 0.095	DEP, GreenGov Council	Statewide	Ongoing				<b>2022 Update:</b> 106 DEP personnel tool credential in Fiscal Year was established in the

ne for 2022-2023. The RFP solicitation closed on June 21, were received, and the review team, which included DEP proposals. PENNVEST provided the review team the Board for consideration. The Board voted to approve the at the July 20, 2022 meeting. PENNVEST and DEP staff will iation with the approved offeror which is the Larson Design am consists of several consulting firms. Notice to proceed was 18, 2022.

act has been fully allocated to communities/projects. As a of the initial effort, the contract is being extended into 2024 ng equal to the initial contract amount for continuation of the

ract has been fully allocated to communities/projects. As a of the initial effort, the contract is being extended into 2025 ng equal to the initial contract amount for continuation of the

Climate Impacts Assessment, press release issued April 2020. te Change Impacts page: .gov/citizens/climate/Pages/impacts.aspx

**tes:** No further update.

book CC-P training, and 16 of those people received their CC-P ear 2020/2021. The Pennsylvania Climate Leadership Academy e second half of 2021. This is a new milestone for 2022-2023.

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	<ul> <li>million pounds of phosphorus delivered to the Chesapeake Bay due to climate change by 2025.</li> <li>This project supports the Green Gov Council through technical assistance to achieve the goals set forth in the 2019-1 Executive Order, Commonwealth Leadership in Addressing Climate Change and 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</li> </ul>							PA Climate Leadership A & Resilience Network (" the Network; bids are de contractor costs, which by multiple agencies, no <b>2023 Update:</b> The PA Climate Network contractor to assist with and climate related issu GreenGov Council webs executive committee is interested in taking own forward. The RFI is expe <b>2024 Update:</b> An RFI to get feedback f network closed on Febru executive committee. A presented to the Climat completion certificates I program, which is availa The responses to the RF managing the network a responses has been revi gathered along with inp official Request for Prop been determined that a affiliated with a major P network.

p Academy has been renamed PA Climate Change Mitigation ("the Network"). RFQ issued for contractor to manage/lead e due by 12/6. MOU w/8 sibling state agencies to share ch will facilitate participation and ownership of the Network not just DEP.

ork Executive Committee and Advisory Board hired a with the development of Training Modules on climate change assues which are now completed and posted on the PA ebsite through the Department of General Services. The is currently developing a request for interest (RFI) to entities wnership and operation of the PA Climate Network going spected to be released in December 2024.

k from interested parties for taking over management of the bruary 29<sup>th</sup> and the responses have been reviewed by the . A follow-up review on March 28<sup>th</sup> preceded the results being hate Network Advisory Board in late April. To date, 31 es have been issued for completion of the Network's training ailable on the GreenGov Council website.

RFI yielded 3-4 respondents that indicated an interest in it is and 13 total responses. The information gathered from all eviewed by the executive committee. The information nput from the Advisory Board will be used to create an roposal to acquire a manager for the climate network. It has t an academic institution/University or an organization r Pennsylvania-based University is desired to manage the

Action #	Description	Performance Target(s) and	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	
		benefits of sustainable governance.							
		Reporting and T	-						
		rammatic and Narrativ			2020 2021				2020 Undatos
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				<ul> <li>2020 Update: No action on this item</li> <li>2021 Update: No action on this item</li> <li>2022 Update: No action on this item</li> <li>2023 Update: No action on this item</li> <li>2024 Update: No action on this item b upcoming session.</li> </ul>
2.4.2	Develop a planning and prioritization tool for use in the development and refinement of the CAPs.	A final tool available to county planning teams for use in the prioritization and tracking of practices and future planning 2022-2023 Update: Chesapeake Commons procurement and contract may be renewed via the ITQ list. DEP, CC and the Pilot and Tier 2 CAP Coordinators will work together to discuss and implement the	DEP, EPA, Chesapeake Conservancy, Chesapeake Commons	Chesapeake Bay	Begin 2020				2020 Update: FieldDoc was customized Review Team, led by Tieler recommendations on error completed from March 22 completed by the FieldDoc use in August/September use of FieldDoc. Addition Tools Review Team and 2021 Update: From the original Chesar process to complete DEL connected to the Data V and CC are working closs complete the identified was submitted to DEP in Procurement List. The Tier 2 counties have share/non-regulatory BI submitted to be incorpored

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but discussions on making it a legislative priority for

zed to meet the needs of local stakeholders. The Data Tools Fier 1 and 2 County Coordinators, provided extensive enhancements needed to FieldDoc. This review process was th 2020 to August 2020. All critical enhancements were dDoc development team. FieldDoc was introduced for public obser of 2020. Counties are strategizing plans to increase the ional non-critical enhancements were identified by the Data and will begin in 2021.

sapeake Commons (CC) contract, FieldDoc has started the DEP's cloud use case so in the future FieldDoc can be a Warehouse as the public facing electronic platform. DEP osely to renew the FieldDoc contract for another year to ed enhancements from 2020. A scope of work and budget in 2021. CC is working on being added to the PA's ITQ

ve been added to FieldDoc so they can input non-cost BMPs into FieldDoc. Pilot county updated goals were also porated.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		previously							
		identified FieldDoc							Pennsylvania's 2020 El
		enhancements							county CAP goals.
		through the Data							
		Review Team.							2022 Update:
									Chesapeake Commons
		Enhancements to							so FieldDoc can secure
		connect FieldDoc							electronic platform. Al
		with the Data							connection between F
		Warehouse are							
		ongoing, following							CC completed and is a
		procurement and IT							Scope of Work and Bu
		requirements.							
									All Pennsylvania Count
		2022-23: Update							to FieldDoc. With their
		FieldDoc to include							report implemented B
		the ability to enter							documents were creat
		details on the							materials are available
		inspection of							
		previously installed							Several counties repor
		BMPs and the							reporting cycle that wi
		expansion of							
		projects that are							2023 Update:
		eligible to be							The Commons has wo
		recorded through							the FieldDoc site and o
		FieldDoc.							
									Most recent enhancen
		DEP Chesapeake							programs into one ma
		Bay Office provide							will allow easy admini
		virtual training to							county partners repor
		partners on the							be live on the site soo
		new features.							
									The Commons also pro
		2023-2024: The							county partners to use
		CAP program will							nutrient reduction est
		be able to track							produced by FieldDoc
		load reductions							were taken into consid
		through FieldDoc							Commons also provide
		per BMP.							
									The Commons first co
									of Work and Budget a
									Ŭ
									2024 Update:

EPA model progress metrics were added to compare with the

ns (CC) is currently working to complete DEP's cloud use case arely connected to the Data Warehouse as the public facing All necessary API updates have been completed for the FieldDoc and the Data Warehouse.

approved for the PA's ITQ Procurement List and an updated Budget are being prepared for an updated contract.

Inties within the Chesapeake Bay watershed have been added eir profiles and metrics added all counties are now able to BMPs into the system. Several training videos and reference wated to guide counties as they began entering data. These ole on the Clean Water Academy.

orted implemented BMPs through FieldDoc during this will be counted towards PA's 2025 goal.

vorked with Pennsylvania DEP on continued maintenance to dongoing enhancements.

ements included the consolidation of all DEP CAP county naster Pennsylvania Chesapeake Bay Watershed Program. This nistration changes and updates and less inconsistency when ort BMPs. This enhancement is currently underway and should on. FieldDoc maintenance is ongoing.

brepared a "CAP Implementation Grant Project" program for se during the 2024 CAP implementation grant round for stimation of potential projects. The reduction estimates be were included the county partner's CAP applications and sideration when projects were selected for funding. The ded technical support to partners, as needed.

contract with DEP ended on December 31, 2023. A new Scope are ready to be processed for a 2024 contract.

Action #	Description	Performance Target(s) and	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	
									DEP's contract with The not be renewed moving tracked and reported the for our county partners, administrate tasks, and i trustworthy data for rep
2.4.3	Work with the Chesapeake Bay Program Partnership, Water Quality Goal Implementation Team, to elicit support for a joint remote sensing project with other jurisdictions		DEP, EPA, Chesapeake Bay Program Partnership	Chesapeake Bay	Begin March 2020				<ul> <li>2020 Update: Met with WQGIT chairs a pertains to coordinating watershed. Discussions a</li> <li>2021 Update: DEP provided Chesapeal to all counties that are powerification, to be spent theoretical concept / who documented in the reposensing Project and assert encouraging these count approved for this type of BMP Verification Progration Progration Progration Progration Progration Progration Support verification effor Chesapeake Bay Technic verification strategies are watershed, including but Time and resources are of jurisdictional approach at 2023 Update: As part of the USDA-EPA promising opportunity to Specific to PA, a method developed and evaluate EPA, and the CBP Agricu Ag Workgroup in August Improvement (RI) practice</li> <li>2024 Update:</li> </ul>

ne Commons officially ended on December 31, 2024 and will ng forward. Moving forward, all CAP funded project will be though PracticeKeeper. This shift will streamline reporting rs, reducing the amount of time they have to spend on id it will allow our staff to receive higher quality and more eporting.

rs and BMP Verification Ad Hoc Committee Chairs as it ng and broadening remote sensing opportunities across the ns are ongoing.

eake Bay Regulatory Accountability Program (CBRAP) funds e participating in the CAP implementation process for BMP nt through 2022. Some counties have developed a white paper for remote sensing, based on lessons learned port from the 2016 NRCS Potomac Watershed Remote ssessed by <u>TetraTech in their third-party report</u>. DEP is unties to pursue remote sensing of practices that have been e of verification methodology and identified in Pennsylvania's gram Plan.

burage counties to pursue remote sensing to assist and fforts. In July 2022, funding was added to the DEP nical Assistance Program grants to further augment and efforts throughout Pennsylvania's Chesapeake Bay but not limited to the use of remote sensing technologies. The currently not available to conduct a broader, multih at this time.

PA Crediting Task Force, remote sensing was elevated as a y to verify BMPs more efficiently and cost-effectively. od for non-intrusive verification through remote sensing was ted by TetraTech, serving as a third-party contractor under culture Workgroup. This method was approved by the CBP ust 2023 and can now be used to verify certain Resource ctices.

Action #	Description	Performance Target(s) and	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	
									In February 2024, PA DE learning model and veri BMP implementation us conservation tillage BMI tracking the State's prog Best practices for remot synthesized in a report a reporting agencies in the the CBP's Agricultural W
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				<ul> <li>2020 Update: <ol> <li>Ag Inspection Module</li> <li>NMP Module updates</li> <li>BMP Module (Inspect</li> <li>CEG enhancement in</li> <li>319/Growing Greener</li> </ol> </li> <li>2021 Update: <ol> <li>Nutrient Management</li> <li>BMP Module (inspect</li> <li>CEG enhancement co</li> <li>Section 319/Growing</li> <li>Partner plan submissi</li> <li>Tenant transfer in procession</li> </ol> </li> <li>2022 Update: <ol> <li>Partner Plan Submissi</li> <li>Section 319/Growing</li> <li>Complete.</li> </ol> </li> <li>2023 Update: <ol> <li>Misc. enhancements of</li> <li>Ag. Inspection Modified</li> <li>Attachment G Modified</li> <li>Updates to CBP-23 If</li> <li>Data Explorer update</li> </ol> </li> </ul>

DEP contracted with Resolve Hydro to develop a machine erification methodology for reporting conservation tillage using high-resolution satellite data. Verifying and reporting EMP implementation throughout Pennsylvania is critical to rogress towards Total Maximum Daily Load (TMDL) goals. note sensing model development and implementation will be rt and verification methodology for use by PA DEP and other the Chesapeake Bay Program (CBP), planned for approval by I Workgroup in Spring 2025.

ule updates complete.

- tes in progress.
- ection/verification) updates nearly complete.
- in progress.
- ner enhancement in progress.
- ent Program Module updates in Progress.
- ection/verification) updates complete.
- complete.
- ng Greener grant program enhancements nearly complete. ssion in progress.
- progress.

ission enhancement complete.

- rship enhancement complete.
- ng Greener grant program enhancements (Phase 1)

its complete, including:

- odifications
- difications
- Review Report
- 23 Report
- dates (save data queries)
- ial data export
- Module Inspections Tab
- etails

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
2.4.5	Update the Pennsylvania BMP Verification Plan and Quality Assurance Program Plan (QAPP)	2022-2023 Update: DEP will be working in 2022 via the CBP Watershed Technical Workgroup to give suggestions on updating the QAPP format and requirements. DEP will continue to submit revised QAPP based on established content requirements and timelines. 2023-2024 Update: DEP will continue to update the QAPP according to the specifications of EPA and add new reporters as necessary.	DEP, EPA	Chesapeake Bay	Annually, as needed				<ul> <li>i) Add BMP button</li> <li>j) Updates to Copy BMF</li> <li>k) Attachment F Update</li> <li>l) Archiving/Records Rem) Generated Manure</li> <li>2) Growing Greener and</li> <li>2024 Update: <ol> <li>Manure Transpo</li> <li>Nutrient Manage</li> <li>NEIEN Submission</li> </ol> </li> <li>2020 Update: Both were updated and sif additional progress inf 2021 Update: DEP sent out new QAPP incorporated into the 20 were updated and subm DEP continues to work we expectations. DEP met not questions provided by EI QAPP and BMP Verificat Verification Program Pla 2022 Update: DEP sent QAPP guidance incorporated into the 20 were updated and subm DEP continues to work we expectations. DEP met not questions provided by EI QAPP and BMP Verificat Verification Program Pla 2022 Update: DEP sent QAPP guidance incorporated into the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we expectations. DEP met not the 20 were updated and subm DEP continues to work we</li></ul>
									<b>2023 Update:</b> DEP sent QAPP guidance reporters for incorporati standardized to record in

MP tool ates Retentions ire Updates nd 319 Phase 2 Enhancements are complete.

sport Views agement Aggregate Data Report ssion Batching

nd sent to EPA on December 1, 2020 - there may be updates information is presented from the Penn State Survey.

PP guidance and template to all of 37+ data reporters to be 2021 QAPP. The QAPP and BMP Verification Plan Addendum omitted to EPA's CBPO by the December 1, 2021 deadline. Is with EPA's CBPO and Water Division to clarify their QAPP t multiple times with EPA and provided written responses to PEPA over the course of several months leading up to the cation Program Plan submission. The 2021 QAPP and BMP Plan are posted to <u>DEP BMP Verification</u> website.

nce and template to all of 39+ data reporters to be 2022 QAPP. The QAPP and BMP Verification Plan Addendum omitted to EPA's CBPO by the September 1, 2022 deadline. Is with EPA's CBPO and Water Division to clarify their QAPP t multiple times with EPA and provided written responses to a EPA over the course of several months leading up to the cation Program Plan re-submission on December 1, 2022. Included new updates for the Turnpike Commission and US peers. DEP extensively updated the PennState Survey QAPP ew method from Transect Survey / PennState survey or crops. The 2022 QAPP and BMP Verification Program Plan <u>P Verification</u> website.

nce and the associated DEP reporting template to all 40 data ation into the 2023 QAPP. The QAPP report was d individual reporter methods. The updated QAPP, along

Action #	Description	Performance Target(s) and	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	
									<ul> <li>with the BMP Verification</li> <li>September 1, 2023 dear</li> <li>Division to meet quality</li> <li>written responses to quality</li> <li>Word the QAPP</li> <li>December 1, 2023. The</li> <li>Group (LDG) Non-Intrustion</li> <li>methodology. The 2023</li> <li>published here upon EP</li> <li>https://www.dep.pa.go</li> <li>Bay-Watershed-Restoration</li> <li>2024 Update:</li> <li>DEP shared QAPP guidation</li> <li>reporters in Spring 2024</li> <li>report is standardized to restructured to meet EF</li> <li>along with the BMP Ver</li> <li>before the September 11</li> <li>and Water Division to m</li> <li>provided written responses</li> <li>several months leading</li> <li>submission on December</li> <li>new data reporter, Agri</li> <li>Attachment J. "Conowing</li> </ul>
2.4.6	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	Finalized crediting protocol that considers all aspects of practices and programs not currently getting credit in the Chesapeake Bay Watershed Model that improve water quality in Pennsylvania. This includes but is not limited to compensatory mitigation, land conservation	DEP, Bay Program Partnership		January 2021 Ongoing	Buy in from the Chesapeake Bay Program Partnership			<ul> <li>2020 Update:</li> <li>Presented to the Manage wetland compensatory from EPA CBPO in early compensatory mitigation response on 12/1/2020</li> <li>Working with DEP Bure for accounting for and correctamation/AMD projet</li> <li>Pulled together a group Penn State Extension, Correction Feeding.</li> <li>2021 Update:</li> </ul>

ation Plan Addendum, were submitted to EPA's CBPO by the eadline. DEP continues to work with EPA's CBPO and Water ity assurance expectations. DEP met with EPA and provided questions provided by EPA over the course of several months PP and BMP Verification Program Plan re-submission on the 12/01/23 QAPP included new updates for Larson Design rusive BMP Verification Standard of Procedure and D23 QAPP and BMP Verification Program Plan will be EPA approval:

gov/Business/Water/Watershed-Restoration/Chesapeakepration/Farms-and-the-Bay/Pages/BMP-Verification.aspx

dance and the BMP reporting template with all data 024 to incorporate updates into the 2024 QAPP. The QAPP d to record individual reporter methods, while being EPA's format requirements in 2024. The updated QAPP, //erification Plan Addendum, were submitted to EPA's CBPO or 1, 2024, deadline. DEP continues to work with EPA's CBPO or meet quality assurance expectations. DEP met with EPA and conses to questions provided by EPA over the course of ng up to the QAPP and BMP Verification Program Plan renber 3, 2024. The 2024 QAPP included updates such as the gricultural Conservation Assistance Program (ACAP) and wingo Watershed Implementation Plan" data reporting

nagement Board in April 2020 as it related to stream and ry mitigation and mitigation banks. Requested responses rly summer 2020 as it related to wetland and stream tion and mitigation banking. Received EPA CBPO draft 20. Next steps are currently under consideration.

reau of Abandoned Mine Reclamation (BAMR) on strategies d crediting water quality improvements as it relates to mine ojects.

up of internal and external subject matter experts (DEP, SCC, , Consulting entities) to better account for and credit Dairy

Action #	Description	Performance Target(s) and	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	
	Watershed	practices related to							SCC has been working v
	Model.	mine reclamation,							Ag Workgroup to develo
		dairy precision							
		feeding, etc.							The Chapter 105 propos
									is proposed to be retitle
									proposed for update to
									understanding of enviro
									revised requirements w
									introduced under the 20
									regulated community w
									Pennsylvania's standard
									amendments to Section
									including siting criteria
									the valuation of propos
									DEP has been in discuss
									have begun the develop
									February 2022, with a fe
									improvements due to A
									hold the workshop in la
									in early 2023.
									2022 Update:
									SCC continues to work v
									Ag Workgroup to develo
									DEP and SRBC continue
									Review, beginning June
									improvements of AMD
									DEP and SRBC are work
									stream water quality an
									DEP works with NRCS re
									USDA but not currently
									Program). Additionally,
									overlap between the sta
									2023 Update:
									SCC and DEP representation
									active participants in th
									all federal reporting and
									nutrient and sediment r

with Penn State University and through the Chesapeake Bay elop and approve a methodology for Dairy Precision Feeding.

bosed rulemaking includes amendments to Section 20a, which tled Compensation for impacts to aquatic resources. The to Section 20a coincides with advances in science and current ironmental and aquatic resource restoration principles. These will also dovetail with the federal mitigation requirements, 2008 federal mitigation rule, so that applicants and the will not have to comply with two different standards, as ards will satisfy the federal standards. The proposed on 20a will establish compensatory mitigation standards ia for service areas, standards for assessment of impacts and osed compensation, monitoring and performance standards.

ssion with USGS, CBPO staff, and STAC representatives and opment of a STAC workshop proposal to be submitted in focus on in-stream water quality improvements and habitat AMD treatment systems. If approved, the goal would be to late 2022, with a potential for a convening of an Expert Panel

with Penn State University and through the Chesapeake Bay elop and approve a methodology for Dairy Precision Feeding.

ues discussions with STAC leads regarding the STAC Literature ne 2022, on the in-stream water quality and habitat D treatment systems.

rking together, with MDE, CBF, and NFWF, regarding the inand habitat benefits of freshwater mussels.

regarding the identification of practices that are funded by ly credited toward progress (e.g. Conservation Stewardship y, DEP, SCC, and NRCS are awaiting the USGS report on data state and federal data sets, which began in 2020.

ntatives served on the USDA-EPA Crediting Task Force as the development of the strategic action plan to ensure that and cost-shared agriculture BMPs are credited toward states' nt reduction progress. The pilot data sharing project between

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									USDA, USGS, DEP, and So in November 2023. Disc continued; action has ye are credited.
									<b>2024 Update:</b> This is a continued priori has been developed by F BWRNSM staff are condu- help assess the actual va BMPs are being captured system. A "sandbox dem submitted for considerat those BMPs. Pennsylvar more holistic crediting an needed by the CBP and E and reduced workload as
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.	DEP Bureau of Clean Water	Susquehanna River	January 2021 Ongoing			1 person \$600,000	<ul> <li>2020 Update: Ongoing monitoring at 7 continues at up to month stations that are sampled network that includes and Data is uploaded annual trends analysis to measu the trends analysis of mareduction in total N, P ar past 10 years.</li> <li>2021 Update: DEP's Water Quality Divition from the period of 2010 enhancement updated/arevents. This provides oth Quality Network. These of watershed.</li> <li>SRBC published the 2021</li> <li>2022 Update: The 2022 Integrated Repto the DEP website here</li> </ul>

d SCC was completed, with the final report provided by EPA iscussions between state, local, and federal agencies yet to be taken by the CBP to ensure all implemented BMPs

ority for Pennsylvania. New remote sensing methodology y Pennsylvania partners and approved by the CBP. DEP nducting an ag BMP efficacy study in small watersheds to value of the implemented BMPs on water quality. More red and reported through Pennsylvania's PracticeKeeper lemonstration" for manure treatment technologies was ration by EPA and the PSC to ensure appropriate crediting of vania state agencies continue to work with NRCS to ensure g and verification of implemented BMPs. More work is d EPA to allow for greater crediting of implemented BMPs d associated with verification.

t 77 Water Quality Network Stations in the Bay watershed nthly frequency. This includes 36 Bay nutrient Loading oled monthly and are also included in the bay non-tidal an addition stormwater sediment sampling events per year.

al to the DUET database and select stations were included in asure progress in the <u>2020 Integrated Report</u>. The results of mainstem Susquehanna and select tributaries is generally a and Suspended Sediment throughout the basin over the

Division has successfully submitted additional chemistry data 10 - 2020 to the national Water Quality Portal. The d/added a total of 2,021,291 records from 64,907 sampling other monitoring site data than is provided with the Water se records are statewide but the majority are from the Bay

<u>D21 SNAP report</u> in storymap format in October 2021.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		The 2022 Integrated Report includes a section dedicated to the Chesapeake Bay and activities to implement the Chesapeake Bay TMDL. This page will highlight multiple activities and progress that has occurred. The Integrated Report will also include the Chesapeake Bay Healthy Waters Healthy Waters Healthy 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							2022 Integrated Water Watershed restoration <b>2023 Update:</b> The Draft 2024 Integrat December 11, 2023. The Chesapeake Bay Waters in Pennsylvania and add <b>2024 Update:</b> EPA approved Pennsylv of discrete and continue portions of the Susqueh Juniata River. In preparation for the 2 and provided for public prepared for public com
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,	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 Nonpoint Source Manag Agricultural Source Aba enhanced water quality As of August 2022, the and monitoring and dat occurring. 2023 Update:

er Quality Report includes a focus on Chesapeake Bay on efforts as well as Climate Change Impacts in Pennsylvania.

rated Report was available for public comment through The Draft 2024 Integrated Report includes a focus on ershed restoration efforts as well as Climate Change Impacts additional information pertaining to Environmental Justice.

ylvania's 2024 Integrated Report in April 2024. A combination nuous data were used to make updated assessments for Jehanna River, West Branch Susquehanna River, and the

e 2026 Integrated Report, TMDL priorities have been drafted lic comment and updated assessment methods are also being omment.

ne for 2022-2023. Funds from EPA FY17 and FY18 Section 319 nagement grants and Pennsylvania state Chesapeake Bay batement Fund will be used for the installation costs of this ity monitoring system at Marietta.

e deployment of the Next Generation Station was complete lata reporting to the USGS website was successfully

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	Dissolved Oxygen (DO), Turbidity, and Nitrate plus Nitrite (NOx).								With about two years of surrogate regression mo focus on developing mo through the foreseeable
	Nitrite (NOX).								The Marietta NTN statio Chesapeake Bay TMDL I Indicator (Non-Tidal Net
									<b>2024 Update:</b> Paired continuous and d build the record for dev
2.4.8	Updates to the Nutrient Credit Trading Program – Nutrient Trading Tool	Incorporate performance-based credit trading tool through the Chesapeake Bay	DEP Bureau of Clean Water	Chesapeake Bay	Beginning January 2020				<b>2020 Update:</b> CBIG3 and NEIEN fundin available, and the vendo work contracts has not b
		Nutrient Tracking Tool (CBNTT) for transparent, interactive, site- specific, and							<b>2021 Update:</b> CBIG3 and NEIEN fundin CBNTT for use by the Proserve as a tool for admin
		regionally consistent methodology linked to the Chesapeake							<b>2022 Update:</b> TIAER has completed de
		Bay modeling tools, for calculating nutrient credits that can be							Thorough testing was co Results of testing show and user experience.
		generated from nonpoint sources and used by point sources to meet							CB Registry update of RI (ARA). Terms and condi commenced.
		NPDES permit obligations in a cost-effective way							EPA and USDA have give trading season.
		More detail can be found in DEP's workplan for the							CBNTT went live on DEP 22, 2022. It is currently
		Chesapeake Bay Implementation Grant. DEP reports progress every 6							<b>2023 Update:</b> DEP met with ARA and N testing. Test environme

of paired continuous and discrete water quality data, models are currently under development. Initial efforts will models to characterize sediment. Data collection will continue ble future for the purpose of developing and refining models.

tion, among all other NTN stations, is included in the L Indicator Tool, located here: <u>Chesapeake Bay TMDL</u> <u>Jetwork Stations) (shinyapps.io)</u>

d discrete water quality data collection continues in an effort eveloping and refining models.

ding sources for the work have been identified and are ndors are ready to proceed, but approval to proceed with the ot been granted.

ling sources are available and work has begun to update Program. The Program intends to pursue updating RIBITS to ninistering the Program.

development of the tool and successfully integrated MTT.

completed by DEP, EPA, USDA and former aggregators. w were positive with satisfactory results with calculations

RIBITS will be contracted to Applied Research Associates Inc. Inditions have been agreed upon and contracting process has

iven DEP approval for adoption of CBNTT for the 2022

EP's website for the regulated community to utilize on July ly available for the 2022 Nutrient Trading season.

nd Maryland bi-weekly starting in June 2023 for discussion and ment was delivered August 2023. Currently working on

Action #	Description	Performance Target(s) and	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	
		months to EPA for grant outputs and outcomes.							registry aspects of the completed for rollout b
		outcomes. 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, US Fish & Wildlife Service, Federal Highway Administration, and							<b>2024 Update:</b> Test environment was aspects of the website for roll out approximat
		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							

ne website, customizing the site for PA use. Website should be t by March 2024.

as delivered August 2023. Ongoing work continues on registry te and customizing the site for PA use. Website is scheduled nately in summer/fall 2025.

Action #	Description	Performance Target(s) and	Responsible Party( <u>ies</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	
		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 tool (e.g. CBNTT) is established	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				<ul> <li>2020 Update: The 3:1 ratio continues and uses a performance</li> <li>2021 Update: The 3:1 ratio continues and uses a performance</li> <li>2022 Update: CBNTT was released on based to performance b ratio for all nonpoint so</li> <li>2023 Update: Performance based calc uncertainty ratio for all completed.</li> <li>2024 Update: This milestone has been</li> </ul>
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				<ul> <li>2022 Update: This is a new milestone</li> <li>CBNTT was released July</li> <li>2023 Update: CBNTT was released July</li> <li>been completed.</li> <li>2024 Update:</li> </ul>
2.4.8(iii)	Publish revised draft Nutrient	Update 2022-2023: Draft supplement	DEP	Chesapeake Bay	December 2022				This milestone has been <b>2022 Update:</b> This is a new milestone

es to be implemented until the program has moved to CBNTT nce-based calculation methodology.

es to be implemented until the program has moved to CBNTT nce-based calculation methodology.

on July 22, 2022 memorializing DEP's transition from practice e based calculations, now implementing a 2:1 uncertainty source generators.

alculations continue to be implemented with a 2:1 all nonpoint source generators. This milestone has been

en completed.

ne for 2022-2023.

July 22, 2022 with EPA and USDA support.

July 22, 2022 with EPA and USDA support. This milestone has

en completed.

ne for 2022-2023.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	Trading Supplement, incorporating CBNTT Performance- based methods to DEP website	will be published to the DEP website to ensure consistent communications.							Draft supplement was p consistent communicati <b>2023 Update:</b> Supplement was finalize <b>2024 Update:</b> This milestone has been
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				<ul> <li>2020 Update: The federal BMPs were</li> <li>2021 Update: Federal Facility BMPs re Pennsylvania's 2021 Pro reporting of Federal BM acceptance) in the wate</li> <li>2022 Update: The federal facility BMP However, DEP discovere impoundments as storm the data set for these BI</li> <li>2023 Update: Federal Facility BMPs re Pennsylvania's 2023 Pro</li> <li>2024 Update: Federal Facility BMPs re Pennsylvania's 2024 Pro inclusion of nutrient cre DOD in 2024.</li> </ul>
2.4.10	Active participation and collaboration in Chesapeake Bay Partnership Technical Workgroups	Integrate best available data and science from Pennsylvania and ensure that historic model process issues like excess/cutoff are	DEP, SCC, DCNR, EPA, Chesapeake Bay Jurisdictions, NRCS, DoD, and Partnership	Chesapeake Bay	CAST-23 planning begins 2022				<b>2022 Update:</b> This is a new milestone DEP and other stakehold workgroups under the B for science-based technic

s published to the DEP website on October 20, 2022 ensuring ations.

lized. This milestone has been completed.

en completed.

re reported to EPA for 2020 Progress.

received from Federal partners were reported with rogress Submission. DoD tracking has shown Pennsylvania's MPs is at one of the highest success rates (NEIEN tershed.

/Ps were reported for 2022 Progress Submission to EPA. ered that the federal facilities were reporting large rmwater BMPs. DEP, USACE, and DoD collaborated to correct BMPs.

received from Federal partners were reported with progress Submission.

received from Federal partners were reported with rogress Submission. DEP and DOD working toward the redit trading into Federal Reporting in NEIEN as presented by

ne for 2022-2023.

olders regularly attend and contribute to EPA's CBPO office Bay Program's Water Quality Goal Implementation Team nnical updates to CAST.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	focused on CAST	addressed across				<u> </u>			Notably in 2021, the DEI
	model updates	the partnership in							Hoc Committee, Agricul
		the two-year CAST							Work Group, and Conov
		model updates.							Workplan. Below are the
									1. BMP Verification Ad H
									Barnyard Runoff Contro
									Grass buffers, and Wetla
									and inspection program
									were changed from 10 t
									Verification and the volu
									(such as CREP) lost to cr
									2. NRCS NEIEN Crosswal
									reporting, including the
									inability to report many
									Conservation Stewardsh
									associated "crosswalk" i
									addressed no later than
									that it is included in the
									2. Ag Ad Hoc Committee
									Ad Hoc Committee to re
									multiple areas of the wo
									addressed due to lack of
									management issues on
									into the modeling tools.
									3. Land Use Workgroup:
									updates and hydrograph
									provide local land cover
									extractive lands.
									4. Watershed Technical
									to forest buffers.
									5. Conowingo WIP Steer
									Committee and actively
									, Activity 3 is focused on
									Activity 3 leads, Chesap
									requirements and credit

DEP participated in the newly formed BMP Verification Ad sulture Ad Hoc Committee, Land Use and Water Technical owingo WIP Steering Committee concerning the CAST21 the summarized 2021 outcomes:

d Hoc Committee: Discussed BMP Credit durations for rol (BRC), Loafing Lot Management (LLM), Forest Buffers, etlands. Presented findings from Pennsylvania's verification ms related to BRC/LLM. Forest Buffers and Tree Plantings D to 15-year credit duration. DEP gave feedback on BMP plume of the historically reported BMPs from federal sources credit duration expiration.

valk: DEP and SCC have worked with NRCS to identify gaps in the LOU described in 2.4.4A. One area of recent note is the my NRCS funded practices (such as those funded through lship Program CSP funding) because there is not an " in the NEIEN list. This is a significant issue that must be an CAST-23, and DEP and NRCS will work together to ensure the CAST-23 workplan.

tee: DEP and SCC staff represented Pennsylvania on the Ag review and execute the CAST-21 workplan. However, workplan that were raised by Pennsylvania were not of partnership support, such as modeled nutrient n full-season soybeans and the addition of known animals ls.

ip: Discussed new land classifications, cover/use 2017-2019
 iphy data. Partnered with Chesapeake Conservancy to
 er/use review. Incorporated a new method of detecting

al Workgroup: Discussed back out and cutoff issues related

eering Committee: Participate as a Co-chair of the Steering ely engage in discussions relating to Activity 1, 2, and 3. In BMP data management, tracking and reporting; work with apeake Conservancy, to ensure streamlined reporting diting.

Action #	Description	Performance Target(s) and	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	
									<ul> <li>6. CAST-21 – At least 16 Executive Staff of DEP, F the evaluation and revie spent on this one item a Chesapeake Bay Partner Board, and Water Qualit extensive research rega CAST-21, specifically foc and briefing documents concerns. In December 2 was developed by DEP a Bay Partnership.</li> <li>DEP will continue to add Workgroups under the g Management Board, and</li> <li>2023 Update: DEP and other stakehold CBPO office workgroups Implementation Team for this attention, improver the lifespan of wetland lifespan for forest buffer Verification methodolog use layer including the is the goals, approving the Freshwater Mussel BMP reductions against mode application and timing to inorganic fertilizer. The goal of developing the negaling the methodolog</li> </ul>
									<b>2024 Update:</b> DEP and other stakehold CBPO's approximately 7 and EC for science-based theoretical implementat stated desire by jurisdic attainment rather than true water quality condi guidance planning tool. underrepresenting the a

16 state agency staff, including Cabinet Secretaries and other , PDA, and DCNR, have been engaged throughout 2022 on view of CAST-21. More than 290 personnel hours have been n alone. Multiple meetings were held with CBPO and the hership at the Principals Staff Committee, Management ality Goal Implementation Team levels. DEP staff conducted garding the concerns brought forth to the partnership about ocused on fertilizer sales data, and developed slide decks its to inform executive staff and others regarding these er 2022, a draft Action Plan for Fertilizer Data Improvements P and shared with other jurisdictions within the Chesapeake

ddress CAST updates through these and other EPA CBPO e governance of the Principals Staff Committee, and Water Quality Implementation Team.

olders continue to regularly attend and contribute to EPA's ups under the Bay Program's Water Quality Goal in for science-based technical updates to CAST. Because of vements to the model have been made including: removing and BMPs (they no longer have an end date), extending the ffers to 15 years, approving the new Non-Intrusive BMP logy, providing comments on the new high resolution land e issue of it not detecting buffer BMPs as had been one of the Oyster BMP that may be useful to the proposed MP, approving the TMDL Indicator to track monitored odeled expectations, approving the change in nutrient g to make all crops eligible to receive both manure and he new Agricultural Modeling Team is also attended with the e next iteration of the CAST model.

DEP and other stakeholders continue to regularly attend and contribute to EPA CBPO's approximately 75 workgroups under its 6 GITs, AMT, STAR, STAC, LGC, MB, and EC for science-based technical updates to CAST Phase 7 and to track theoretical implementation of the Bay TMDL. It should be noted that there is a stated desire by jurisdictions to rely on monitoring to track progress to Bay TMDL attainment rather than relying solely on the Bay model as monitoring represents true water quality conditions while modeling is better used as a restoration guidance planning tool. Of significance to this point, the model is underrepresenting the actual gains in water quality improvements documented by

Action #	Description	Performance Target(s) and	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	
									monitoring, thus, the me their work, time, dollars restoration especially in USGS Super Gage Statio The 2025 Bay TMDL Mile vision of Bay TMDL impl to this evolution is deali too many workgroups, p much staff time and are shape is the developmen Verification Methodolog following collaborative w WQ GIT. This new methor satellite imagery and ma conservation tillage BMI and sediment loads rem Model and conservation source sector. Being abli implementation of this B currently being docume
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 of Aquatic biologist was hin Management Program b 2023 Update: This milestone is complet
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,	DEP	Chesapeake Bay	December 2022				<b>2022 Update:</b> This is a n Environmental Group M reporting, and modeling partners. In addition, aff Environmental Program Chesapeake Bay Waters Partnership and Waters

model is giving less credit than attained by jurisdictions for ars spent and programmatic enhancements in watershed in the Susquehanna River watershed as demonstrated at the ion at Marietta.

lilestone is upon us and with that, a reconfiguration and new plementation is taking shape. One of the primary challenges aling with the reality of having redundancy in the system and , priorities, GITs, Teams and objectives that take up too re not optimally efficient. A significant evolution also taking nent of a Remote Sensing of Conservation Tillage BMP ogy that is expected to be approved for use in 2025 e work in 2024 with Resolve Hydro, DEP, AgWG, WTWG and thodology will enable DEP to verify through multi-spectral machine learning significantly more accurately the MPs within the Bay watershed of PA. Agricultural nutrient main in need of large reductions in PA according to the Bay on tillage is the best BMP to get large reductions to this ble to accurately report the already high rate of s BMP will demonstrate that more credit is due than nented in the Bay Model.

e for 2022-2023.

hired to further support Pennsylvania's Nonpoint Source n by July 2022.

plete.

new milestone for 2022-2023.

Manager was hired by October 2022 to oversee the tracking, ng efforts with EPA and other federal and jurisdictional after reorganization taking place in Fall 2022, an m Manager was hired by December 2022 to oversee the ershed Restoration Division – including Chesapeake Bay rshed Accountability and Administration Sections.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
		reporting, and coordination efforts with EPA and other federal and jurisdictional partners.							<b>2023 Update:</b> This milestone is compl
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 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.	DEP	Statewide	December 2022				2022 Update: This is a new milestone Environmental Group M Nonpoint Source Manag Watershed Specialist pr Fall 2022, an Environme oversee the Nonpoint S Support, Conservation I 2023 Update: This milestone is compl
2.4.14	PA DEP Chesapeake Bay Partnership Section partnered with PA Game Commission for Reporting BMPs	The PA Game Commission will identify their BMPs that have not be reported to NEIEN in the past. DEP will work with the Game Commission to report BMPs for submission into NEIEN and CAST for credit towards PA	PA DEP Chesapeake Bay Partnership Section (CBPS)	PA Counties located within the Chesapeake Bay Watershed Boundary	Begins March 2024	Cross walk state to NEIEN BMP names Historical data pull from multiple PGC data sources			2023 Update: This is a new milestone 2024 Update: PGC and DEP collaborat 2024 Progress. PGC rep reported.
2.4.15	PA DEP 5-year Nonpoint Source	Progress. 2024-2025 Update: from the 2019 plan	DEP, State/Federal Agency Partners,	Statewide	Begins October 2024				<b>2023 Update:</b> This is a new milestor
	Management Plan		Conservation Districts,		2024				2024 Update:

nplete.

ne for 2022-2023.

p Manager was hired by October 2022 to oversee the nagement Program, Growing Greener, Conservation District t programs. In addition, after reorganization taking place in mental Program Manager was hired by December 2022 to at Source Management Division – including Watershed on District Support, and Agriculture Compliance Sections.

nplete.

ne for 2024-2025.

ration has over doubled the number of BMPs submitted for eporting has gone from 1 BMP type reported to 7 BMP types

one for 2024-2025.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
<u></u>									PA DEP 5-year Nonpoin December 2024
2.4.16	Review and Revise Pennsylvania's Wildlife Action Plan (PA WAP) for PA trust species	2024-2025 Update: PGC and PFBC review and revise the <u>2015-2025</u> <u>Pennsylvania</u> <u>Wildlife Action Plan</u> <u>(fishandboat.com)</u>	PGC, PFBC	Statewide	Begins May 2024				2023 Update: This is a new milestone 2024 Update: PA Wildlife Action Plan November 2024. <u>Home</u>
Section 2, 2.4.1A	State Actions, Num Work with the	eric Commitments	DEP, PDA, SCC		January	Buy in from the	1		2020 Update:
	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				2021	Chesapeake Bay Program Partnership			Action has not started 2021 Update: Action has not started 2022 Update: Action has not started. 2023 Update: Pennsylvania's Sustaina Agriculture Act, will be to the Sustainable Agric per dollar match) will be considered "climate sm crops, conversion of cro buffers, agroforestry an Chesapeake Bay waters provide statewide fundi collective BMP, soil hea Pennsylvania's agricultu 2024 Update: Sustainable Ag Board has granted in 2025.
	progress in the model, commit additional funding or the technical and financial assistance								granted in 2025.

bint Source Management Plan was sent in Draft to EPA in

ne for 2024-2025.

an Conservation Opportunity Area Tool was updated me | WAP Conservation Opportunity Area Tool

d

d. Will convene partner group in early 2023 to discuss.

inable Agriculture Board, provided for under the Sustainable be funded in part by Chesapeake Bay MEB IIJA funds. Related griculture Board, grants of up to \$25,000 (or \$50,000 if dollar I be awarded for projects that improve soil health and are smart" or "regenerative agriculture" practices, such as cover cropland to rotational grazing, working buffers, forested and silvopasture. Although limited initially to the ershed due to funds being used, it is the SCC's intent to nding as it become available. While not credited as a health and sustainable agriculture lands remain a priority for ulture industry.

has been appointed, guidelines published, and awards to be

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	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.			<ul> <li>2020 Update: Action is moving forward to the CBP Ag Workgrou</li> <li>2021 Update: PDA and PSU have prese are developing a propos</li> <li>2022 Update: Data is being collected f farmers are already doir</li> <li>2023 Update: No updates since last ye additional research in 20</li> <li>2024 Update: SCC awarded \$22 millior (RCPP) award, in partner</li> </ul>
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	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.			<ul> <li>reduce methane. It is a</li> <li>2020 Update: <ol> <li>Working on the incorport</li> <li>Working on the incorport</li> <li>Management (NM) BMP</li> <li>CBAIP – Standard Ope</li> <li>Support the tracking of S</li> <li>Counties have include</li> <li>verify them through CAF</li> <li>partnerships (e.g. NFWF</li> <li>Action is moving forward</li> </ol> </li> <li>2021 Update: <ol> <li>Verification of Supple</li> <li>Annual Status Reviews b</li> <li>technicians and recorde</li> </ol> </li> <li>2. Counties are actively patabase while conduct</li> </ul>

ard as planned, workgroup discussing and will be presenting oup in January 2021

esented this approach to the Ag Workgroup. PDA and PSU osal for workgroup consideration.

d from dairy cooperatives to use as baseline for what oing.

year, however, SCC will be resurfacing this as a priority for 2024.

ion USDA-NRCS Regional Conservation Partnership Program nership with Land O'Lakes, for enteric feeding practices that a statewide project.

orporation of verification of Supplemental nutrient MP implementation during annual Act 38 Status Reviews.

perating Procedure and training materials released to of Supplemental NM BMPs verified during inspections.

ded these BMPs into their CAPs and are actively working to CAP Implementation Grants and other funding sources and VF and 4R Alliance).

ard as planned, workgroup discussing and developing forms

lemental Nutrient Management (NM) BMPs on Act 38 s began October 2021. A live webinar was held for certified ded for future reference.

ly reporting supplemental NM BMPs in the PracticeKeeper acting inspections and site visits.

Action #	Description	Performance Target(s) and	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	
		nitrogen and phosphorus. 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							<ul> <li>3. Coordinating with Peri 2022 Penn State Volunta which will also capture s</li> <li>2022 Update: Developed and deployed Concentrated Animal Op implemented supplemental 2023 Update:</li> <li>1) Enhanced supplemental Animal Operations (CAO supplemental Nutrient N 2) Deployed Data Wareh data and assists with QA</li> <li>2024 Update:</li> <li>1) Processes first estab 2) Provided training an</li> </ul>
2.4.4A	Expand reporting of grass buffers	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		districts using the su <b>2020 Update:</b> Agricultural Grass Buffer the BMP Partner submis Program. Grass buffers a scheduled to report by th <b>2021 Update:</b> Agricultural Grass Buffer well as the BMP Partner Reimbursement Program submission. Grass Buffer Bay Program Partnership Numeric Milestones, sub reported grassed buffer DEP, SCC, NRCS, and USC duplication of Conservat Currently, NRCS reported related to duplicate reported with NRCS reported data data sharing project.

Penn State University and SCC for the deployment of the ntary Producer Survey for the Tier 2 and Tier 3 counties, e supplemental NM BMP implementation.

yed supplemental onsite status review form for Act 38 Operations (CAOs), which resulted in increased reporting of nental Nutrient Management practices.

ental onsite status review form for Act 38 Concentrated AOs), which resulted in increased reporting of implemented t Management practices.

rehouse which automates the export of PK supplemental NM QA/QC.

ablished in 2023 continue to be implemented. and guidance on existing processes to county conservation supplemental onsite status review form.

fers are being reported through PracticeKeeper, as well as nission module through the Agricultural Plan Reimbursement is are also being reported through Penn State survey, that is y the end of 2020.

fers were reported to EPA's CBPO from PracticeKeeper, as er submission module through the Agricultural Plan ram, and Penn State survey as part of DEP's 2020 progress fer credit duration was being assessed in the Chesapeake hip BMP Verification Ad Hoc Committee. As shown in the submitted progress through 2021 shows an increase in er acres.

JSGS hold a joint Letter of Understanding (LOU) to assess vation Technical Assistance (CTA) reporting in four counties. ted CTA projects do not get accounted for due to concerns eporting. DEP provided state reported data to USGS to assess ata. To date, USGS has not yet produced a report from this

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(
									<ul> <li>2022 Update:</li> <li>Increases in grass buffers on a numeric progress. Furthedetermining best approaduration, are ongoing.</li> <li>DEP, SCC, NRCS, and USC duplication of Conservate Currently, NRCS reported data data sharing project.</li> <li>2023 Update:</li> <li>Increases in grass buffers on a numeric progress. Furthedetermining best approaduration, are ongoing.</li> <li>DEP, SCC, NRCS, and USC duplication of Conservate Currently, NRCS reported data data sharing project.</li> <li>2023 Update:</li> <li>Increases in grass buffers on a numeric progress. Furthedetermining best approaduration, are ongoing.</li> <li>DEP, SCC, NRCS, and USC duplication of Conservate Currently, NRCS reported data November 2023.</li> <li>2024 Update:</li> <li>PA DEP is now able to report of the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Grass Buffer for the change addressed back to their of increase in Gr</li></ul>
2.4.5A	Inventory existing agricultural BMPs and BMP needs through survey, agricultural		PDA, SCC, DEP, CDs, Penn State Extension, NRCS, USGS, EPA		Beginning Spring 2020				<b>2020 Update:</b> 1. PA Farm Conservation agricultural operators in completed by Penn State

fers on fenced pasture corridor, narrow grass buffers, and on fenced pasture corridor have been reported in 2022 rther refinement and collection of grass buffers, as well as roaches for verification of grass buffers with expired credit .

JSGS hold a joint Letter of Understanding (LOU) to assess vation Technical Assistance (CTA) reporting in four counties. ted CTA projects do not get accounted for due to concerns eporting. DEP provided state reported data to USGS to assess ata. To date, USGS has not yet produced a report from this

Fers on fenced pasture corridor, narrow grass buffers, and on fenced pasture corridor have been reported in 2023 or ther refinement and collection of grass buffers, as well as roaches for verification of grass buffers with expired credit

USGS hold a joint Letter of Understanding (LOU) to assess vation Technical Assistance (CTA) reporting in four counties. ted CTA projects do not get accounted for due to concerns porting. DEP provided state reported data to USGS to assess ata. EPA provided the complete and final report in

report Buffer practices in acres and not feet length, after inge to the appendix by the CBP. All buffers have been ir correct acres and reported to overwrite any lengths. An er BMPs has been reported for 2024 Progress Reporting.

ion Practices Inventory was voluntarily submitted by in Adams, Franklin, and York Counties. Verifications were ate Extension professionals, and data analysis is on-going.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	planning, and inspection programs,				1				2. MOU is finalized, and PracticeKeeper and USI Counties.
	focusing on geographic areas through the Tiered approach								3. The Chesapeake Bay report BMP data across inspections.
									4. CBAIP has initiated P Adams, Chester, and La
									PA's Agricultural Plan R reported to Practice Ke the BMP Partner Modu
									<b>2021 Update:</b> 1. PA Farm Conservatio agricultural operators in completed by Penn Sta
									2. Data analysis and con datasets in Franklin, Jun
									3. The Chesapeake Bay report BMP data across follow-up inspections. <sup></sup> was published to the w
									4. CBAIP Phase 2 (Plana Chester, and Lancaster inspections are comple is included in the 2020-
									5. SCC and DEP continu Enhancements to PaOn data collection.
									<b>2022 Update:</b> 1. PA Farm Conservatio agricultural operators in State Extension profess

nd data analysis and comparison is ongoing across DEP SDA datasets in Franklin, Juniata, Lancaster, and York

y Ag Inspection Program (CBAIP) continues to collect and ss the PA Bay watershed as part of initial and follow-up

Phase 2 (Plan and BMP Implementation) inspections in Lancaster Counties.

Reimbursement Program BMPs are continuing to be Geeper by Team Ag and Larson (APRP contractors) through Jule.

ion Practices Inventory was voluntarily submitted by in Adams, Franklin, and York Counties. Verifications were rate Extension professionals, and data analysis is complete.

omparison is ongoing across DEP PracticeKeeper and USDA uniata, Lancaster, and York Counties.

ay Ag Inspection Program (CBAIP) continues to collect and oss the PA Chesapeake Bay watershed as part of initial and a. The <u>2020-2021 Agriculture Inspections Annual Summary</u> website in December 2021.

n and BMP Implementation) inspections continue in Adams, r Counties and has expanded to all counties where initial ete. Information related to the Phase 2 portion of the CBAIP D-2021 Agriculture Inspections Annual Summary.

ue funding and support for the PaOneStop program. DieStop will allow for use during the 2022 producer survey

ion Practices Inventory was voluntarily submitted by in Tier 2 Counties. Verifications were completed by Penn ssionals, and data analysis is nearly complete.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	1				1				2. Data analysis and com datasets in Franklin, Jun from USGS.
									3. The Chesapeake Bay A report BMP data across follow-up inspections. T was published to the we
									4. CBAIP Phase 2 (Plan a Adams, Chester, Clinton Sullivan, and York Count inspections are complet included in the 2021-202
									5. SCC and DEP continue Enhancements to PaOne data collection. Ag. E&S Plan Module to
									<b>2023 Update:</b> 1. The Chesapeake Bay A report BMP data across follow-up inspections. T was published to the we
									4. CBAIP Phase 2 (Plan a Adams, Berks, Chester, C Lebanon, Montour, Perr counties where initial in inspections is included in
									5. SCC and DEP continue Development of the Ma
									6. SCC will collect BMP of and visiting farms across
									<b>2024 Update:</b> 1. The Chesapeake Bay A report BMP data across follow-up inspections. T was published to the we

omparison is complete across DEP PracticeKeeper and USDA uniata, Lancaster, and York Counties. DEP awaits the report

y Ag Inspection Program (CBAIP) continues to collect and ss the PA Chesapeake Bay watershed as part of initial and . The <u>2021-2022 Agriculture Inspections Annual Summary</u> website in October 2022.

and BMP Implementation) inspections were completed in on, Columbia, Franklin, Lancaster, Lebanon, Montour, inties and continues to expand to all counties where initial ete. Information related to the Phase 2 inspections is 2022 Agriculture Inspections Annual Summary.

ue funding and support for the PaOneStop program. meStop will allow for use during the 2022 producer survey

to PAOneStop complete.

y Ag Inspection Program (CBAIP) continues to collect and ss the PA Chesapeake Bay watershed as part of initial and . The 2022-2023 Agriculture Inspections Annual Summary website in December 2023.

and BMP Implementation) inspections were completed in r, Clinton, Columbia, Franklin, Fulton, Lackawanna, Lancaster, erry, and Sullivan Counties and continues to expand to all inspections are complete. Information related to the Phase 2 d in the <u>2022-2023 Agriculture Inspections Annual Summary</u>.

ue funding and support for the PaOneStop program. Ianure Management Module to PAOneStop is on-going.

P data whenever possible as ACAP field staff are now hired oss the state.

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 2023-2024 Agriculture Inspections Annual Summary was published to the website in November 2024.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
2.4.6A	Develop an electronic reporting system	2022-2023 Update: DEP will conduct work, using state	DEP	Chesapeake Bay/Statewid e	Beginning 2022 through				<ul> <li>2. CBAIP Phase 2 (Plan a Bedford, Berks, Blair, Ce Fulton, Huntingdon, Lac Wyoming, and York Cou inspections are complet included in the 2023-202</li> <li>3. SCC and DEP continue</li> <li>4. Development of the I</li> <li>5. SCC will collect BMP of and visiting farms across ACAP practices in Practice</li> <li>2022 Update: CAFO eReporting tool for an an</li></ul>
	for CAFOs to submit annual reports	and federal funding, to develop the CAFO Annual Report e-Reporting Framework to meet EPA e-reporting rule			2024				<ul> <li>2023 Update: CAFO eReporting tool for limited number of perm</li> <li>2024 Update: <ol> <li>The pilot test involvin deemed successful.</li> </ol> </li> <li>2. Enhancements were of received during the pilot</li> <li>3. Coordinated outreach information and awaren</li> <li>2. CAFO eReporting tool</li> </ul>
2.4.7A	Develop functionality for the trained partner submission and DEP or CCD review of verified agricultural	2022-2023 Update: DEP will conduct work using federal funding to develop the PracticeKeeper Partner Submission Planning Modules and enhance the PracticeKeeper	DEP	Chesapeake Bay/Statewid e	October 2022				voluntary use by all CAF <b>2022 Update:</b> Partner plan submission web-based training mod direction regarding BMP <b>2023 Update:</b> Partner submission mod expanded to the DEP Gr <b>2024 Update:</b>

n and BMP Implementation) inspections were completed in Centre, Chester, Clinton, Columbia, Dauphin, Franklin, ackawanna, Lancaster, Mifflin, Montour, Perry, Sullivan, ounties and continues to expand to all counties where initial ete. Information related to the Phase 2 inspections is 2024 Agriculture Inspections Annual Summary.

ue funding and support for the PaOneStop program.

ne Manure Management Module to PAOneStop is on-going.

1P data whenever possible as ACAP field staff are now hired oss the state. Conservation Districts are required to enter cticekeeper.

for annual reports is under development.

for annual reports is deployed and a pilot test involving a mittees is on-going.

ving a limited number of permittees was evaluated and

re completed to CAFO eReporting tool based on feedback ilot test.

ach was conducted with the regulated community to provide reness of the soft release of the CAFO eReporting tool. Fool for annual reports is deployed and the soft release for AFOs is on-going.

ion PK enhancement is complete. Additional guidelines and odules were developed for third-party verifiers to provide MP verification qualifications and criteria for those entities.

odules continue to be used and the functionality has been Growing Greener and EPA Section 319 Project Modules.

Action #	Description	Performance Target(s) and	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	
	BMPs and farm plans	Partner Submission BMP Module.							Partner submission mo expanded to Conowing
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 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.	NRCS, DEP	Statewide	May 2022				2022 Update: NRCS Customer Record developed. 2023 Update: NRCS Customer Record complete. NRCS Customer Record complete.
2.4.1F	Ensure adequate tracking of partner- implemented forestry BMPs	Develop mechanism to capture partner reported and privately funded	DEP, DCNR, PDA, SCC, EPA, PACD, NGOs, Farm Organizations, NRCS, PSU	Pa Bay-wide	Ongoing	QA/QC of partner data, system access, etc.			<b>2020 Update:</b> DCNR Forestry entered were reported as part o

nodules continue to be used and the functionality has been ngo WIP reporting.

ord Request form and accompanying FAQs have been

ord Request form continued to be used. This milestone is

ord Request form continued to be used. This milestone is

ed BMPs into Practice Keeper from 2017 – 2020 and they rt of 2020 Progress to EPA.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	including forest	buffers and other							Chesapeake Bay Founda
	buffers, tree	BMPs, with							their tree plantings from
	canopy, conservation landscaping,	appropriate QA/QC processes, enabling those BMPs to be							DEP is working with DCI
	urban forest	properly credited.							FieldDoc, in partnership
	expansion,	2022-2023 Update:							2020 to capture BMPs t
	stream wetland	DEP and DCNR							regulatory program.
	restoration	Bureau of Recreation and Conservation are							NFWF BMPs are going t
		developing							DCNR's TreeVitalize pro
		crosswalk lists,							2020 Progress.
		training, and							2021 Undata:
		enhancements for							2021 Update: DCNR Forestry Program
		reporting priority BMPs that are							these BMPs were repor
		implemented as							
		part of their grant							DCNR's TreeVitalize pro
		programs, like							were reported as part o
		parks rehabilitation							will continue to report t
		projects (e.g. green infrastructure, tree							
		planting, and forest							DEP's DEP and DCNR co
		buffers).							PracticeKeeper Partner
									process and requiremen
									going enter PracticeKee data and exporting CBF
									report historic data to D
									utilize PracticeKeeper f
									As part of DCNR's Clima
									DEP to report their BMF
									PracticeKeeper to repor
									going to update their gr
									For FieldDoc, Chesapea
									non-cost share/regulate Progress metrics will be
									compare with the count
									compare with the count
									NFWF BMPs were report
									2022 Update:

ndation's (CBF) Keystone 10 Million Trees Initiative reported rom 2018 – 2020 and was submitted to EPA.

DCNR Recreation to report their BMPs in Practice Keeper.

hip with Chesapeake Commons, was launched in October s that are not part of a Commonwealth cost share or

to reported through FieldDoc.

rogram submitted tree planting BMPs from 2015 – 2019 for

am entered BMPs into Practice Keeper from 2017 – 2021 and orted as part of 2020 and 2021 Progress to EPA.

program submitted tree planting BMPs from 2015 – 2019 t of 2020 Progress to EPA. DCNR Forestry and TreeVitalize rt their BMPs to PracticeKeeper.

collaborated with Chesapeake Bay Foundation to set up a er BMP Module. CBF updated their internal data collection nents to accurately include spatial parcel data that they are deeper. DCNR is the reviewing entity and will be QA/QC the BF data from Practice Keeper to submit to DEP. CBF will o DCNR in a spreadsheet form, but moving forward CBF will er for all of their future reporting.

mate Resiliency initiative, DCNR Recreation is working with MPs in PracticeKeeper. DCNR Recreation agreed to "pilot" port BMPs for York and Lancaster County. DCNR Recreation is grant close out form to include reporting BMPs.

eake Commons added the Tier 2 counties so they can input atory BMPs along with the Pilot counties. EPA's CBPO 2020 be added for the Pilot and Tier 2 counties in FieldDoc to unty CAP goals.

ported through FieldDoc to EPA's CBPO for 2020 progress.

Action #	Description	Performance Target(s) and	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	
					*				DCNR Forestry Program 2022 Progress to EPA.
									DCNR's TreeVitalize exp year for 2023 Progress t
									DCNR's lawn conversion DCNR is exploring altern PracticeKeeper.
									Scheduled for 2023: As p Recreation is working w Recreation agreed to "p County. DCNR Recreation reporting BMPs.
									For FieldDoc, Chesapeak input non-cost share/re EPA's CBPO 2021 Progre the county CAP goals. C GeoDecisions to create a
									NFWF BMPs were repor
									<b>2023 Update:</b> DCNR's TreeVitalize (nor successfully reported BN and the data was provid
									FieldDoc, in partnership part of a Commonwealt
									Relevant BMPs from MS
									NFWF BMPs are reporte
									All programs identified I Pennsylvania's NPS Qua
									<b>2024 Update:</b> DCNR's Urban Commun successfully reported BN provided to EPA.

m entered BMPs into Practice Keeper and were reported for

xperienced some reporting challenges and will report next s that will include 2022 BMPs through PracticeKeeper.

ion program has not yet been integrated into PracticeKeeper. ernative methods for reporting forest buffers beyond

as part of DCNR's Climate Resiliency initiative, DCNR with DEP to report their BMPs in PracticeKeeper. DCNR "pilot" PracticeKeeper to report BMPs for York and Lancaster ation is going to update their grant close out form to include

eake Commons added the Tier 3 and 4 counties so they can fregulatory BMPs along with the Pilot and Tier 2 counties. gress metrics were added for all counties to compare with . Chesapeake Commons is working with DEP and te an automated reporting process to Data Warehouse.

ported through FieldDoc to EPA's CBPO for 2022 progress.

now UCF) program has improved their tracking and has BMPs tracked via TreeKeeper. The data was reported to DEP, *v*ided to EPA.

ip with Chesapeake Commons, captures BMPs that are not alth cost-share or regulatory program.

VIS4s are also reported through NEIEN.

rted through FieldDoc.

ed here are also listed with more information in Quality Assurance Project Plan (QAPP).

unity Forest program has improved their tracking and has BMPs. The data was reported to DEP, and the data was

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
					- 	· · · · · · · · · · · · · · · · · · ·			FieldDoc, in partnership
									part of a Commonwealt
									Relevant BMPs from MS
									NFWF BMPs are reporte
									All programs identified h Pennsylvania's NPS Qua
									PA DCNR's C2P2 grant p implementation to Pract data into both the DCNF
2.4.2F	Celebrate successful implementation and maintenance of forestry BMPs through reporting successful efforts.	Generate broad understanding and acceptance of watershed restoration efforts and how they improve quality of life in PA communities through reporting successful efforts, resulting in a greater appetite for forestry and all BMPs. Broader acceptance and appetite for these	All agencies and partners.	Pa Bay-wide	Ongoing	Report generation, digestible messaging, continual messaging, etc.			2020 Update: DCNR included forest bunewsletter, <i>The Resource</i> Stewardship agreement Teddi Stark received the given annually during the The Buffer Vocational Tr part of the Correctional Environmental Excellence 2021 Update: David Wise of Stroud Wa Leadership Award, whice
		BMPs will make outreach and implementation less time-intensive, less expensive processes.							DCNR continued to shar newsletters, as they we DCNR invited executive partner planting to cele
									CCLC is making October outreach and events arc
									<b>2022 Update:</b> Greg Wilson of Donegal Leadership Award at the Forest Buffer Summit).

ip with Chesapeake Commons, captures BMPs that are not alth cost-share or regulatory program.

VIS4s are also reported through NEIEN.

rted through FieldDoc.

d here are also listed with more information in uality Assurance Project Plan (QAPP).

t program will now report riparian forest buffer acticeKeeper internally, without requiring grantees to input NR and the PK systems separately.

buffers and lawn conversion practices in its monthly eurce, and celebrated forestry BMPs through the USFS Shared nt signing committing to the Bay Forest Restoration Strategy.

he 1st Annual Watershed Leadership Award which will be the Riparian Forest Buffer Summit.

Training at Huntingdon State Correctional Institute was a al Conservation Collaborative and received a Governor's ence Award in 2020, as well as local news coverage.

Water Research Center received the 2<sup>nd</sup> Annual Watershed nich was presented at PA's Virtual 2021 Buffer Summit.

are success stories via social media and resource vere available.

e and legal staff who work on our many agreements to a lebrate progress on buffers internally.

er 2021 "buffers month", and hosting and sponsoring around riparian forest buffers.

al TU was posthumously awarded the Watershed Forestry he 2022 Watershed Forestry Summit (formerly Riparian ).

Action #	Description	Performance Target(s) and	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	
									In May 2022, PA DEP, PA Commission attended a <b>2023 Update:</b> Ryan Davis was awarded Watershed Forestry Sun DCNR will be celebrating in early 2024, around Ea <b>2024 Update:</b> As planned, DCNR celeb Big Elk Creek State Park Shapiro also celebrated past several years during debuted the UMCES 232
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				<ul> <li>2020 Update:</li> <li>DEP is initiating a new p reports to collect BMP d</li> <li>DEP is utilizing an electronic development of an electronic development of an electronic development of an electronic development of the complete and a small nurve development of the complete and a small nurve development of the continue to be considered continue t</li></ul>

PA DCNR, PDA, and members of the Chesapeake Bay a celebratory buffer planting in Lancaster, PA.

led the Watershed Forestry Leadership Award at the 2022 ummit.

ing a ~300 acre buffer planting at the new Big Elk State Park Earth Day.

ebrated the planting of a nearly 300 acre buffer at the new rk during Earth Week of 2024. In July of 2024, Governor ed the riparian forest buffer progress made in PA over the ing the press event at the SRBC office in Harrisburg that 323/2024 Chesapeake Bay and Watershed Report Card.

project to develop a web-based system for MS4 annual data.

tronic system for recording MS4 inspections ("elnspection").

n electronic reporting system for MS4 Annual reports is bated that this system will begin to be implemented for

he eReporting application for MS4 Annual Status Reports is number of MS4s were asked to beta test the system this discovered and as a result, it is likely that next year will ered a testing period.

Annual Reporting Systems continues with over 50 MS4s. Based on the results of the testing period, DEP will decide if system will be mandated for all MS4s next year.

ting application was voluntary for the submission of MS4 in 2024. Over 120 permittees used the eReporting their MS4 annual reports in 2024. There are still some bugs

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									in the system and as a mondated in 2025
2.4.2S	Initiate and collect stormwater BMP data from other DEP programs implementing provisions of the Chapter 102 regulations, to include required post- construction stormwater management.			Statewide	Begin 2020				<ul> <li>mandated in 2025.</li> <li>2020 Update: DEP is anticipating the 2021, to allow the regu- electronically for PAG-0 discharges associated win phases, in which new followed by individual I control (E&amp;S) permit ap first, but is expected to significant step forward activities and BMPs act</li> <li>2021 Update: The Chapter 102 ePerm 1. New NOIs and amen January 25, 2021);</li> <li>2. New applications and Discharges Associated width 3. New applications and (E&amp;S) Permits for Disch (released August 4, 2020)</li> <li>System availability for I Permit (ESCGP-3) for ea Production, Processing tentatively planned for anticipated PCSM BMP</li> <li>2022 Update: DEP's IT staff continue about 3-5% of Chapter ePermit.</li> <li>2023 Update: Chapter 102 ePermit us</li> </ul>
									•

result, DEP is unsure whether use of the system will be

e launch of the Chapter 102 ePermit system on January 25, gulated community to submit Notices of Intent (NOIs) G-02 NPDES General Permit coverage for stormwater d with construction activities. The ePermit system will be built ew and amendment PAG-02 NOIs will be released first, al NPDES permit applications and then erosion and sediment applications. Use of Chapter 102 ePermit will be voluntary at to be required in the future. The system represents a ard in DEP's ability to collect information on earth disturbance cross Pennsylvania.

rmit system is available for voluntary use for: endments for the PAG-02 General NPDES Permit (released

and amendments for Individual NPDES Permits for Stormwater d with Construction Activities (released April 21, 2021); and and amendments for Erosion and Sediment Pollution Control charge of Stormwater Associated with Construction Activities 021).

r New NOIs for the Erosion and Sediment Control General earth disturbance associated with Oil and Gas Exploration, ng or Treatment Operations or Transmission Facilitates is or release on December 8, 2021. The ePermit system records IPs for earth disturbance projects.

e to make needed improvements to ePermit. Currently er 102 NPDES applications/NOIs are being submitted through

use continues to be voluntary due to a number of issues that fore we require its use. DEP is also seeking to update are to include Chapter 102 inspections; PCSM BMPs will be ata collection.

Action #	Description	Performance Target(s) and	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	
									Due to its extremely low and applicants, DEP has system at this time (effe considered as part of DE
2.4.35	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				<ul> <li>2020 Update: DEP's Bureau of Clean W</li> <li>1. Percentage of PRPs remultiple joint PRPs that</li> <li>2. Percentage approved</li> <li>3. Total PRPs not received</li> <li>4. Total PRPs not yet app Note this is being tracke multiple joint PRPs that more than 40 MS4 which</li> <li>2021 Update: There are 345 small regu- including PennDOT and the remaining 266 with</li> <li>2022 Update: DEP continues to make p Approximately 10% of p- have approved PRPs.</li> <li>2023 Update: The majority of the MS4 are implementing their p permittees that do not y</li> <li>2024 Update:</li> </ul>
									The draft PAG-13 was pr will be published for pub NOI due date is Septem
2.4.4S	Review and approve PennDOT's and PA Turnpike Commission's PRPs	PRPs are expected to be received by DEP in October 2022.	DEP	Chesapeake Bay Watershed	Summer 2023	The PRPs are expected to be large and complex but are expected to result in significant pollutant load reductions.			<b>2022 Update:</b> This is a new milestone of PennDOT's and PTC's PR respectively. The PRPs w coordinate with the DEP municipal permittees ar

ow voluntary usage and significant concerns from both staff as decided to discontinue use of the Chapter 102 ePermit ffective December 8, 2024). A new system is being DEP's overall IT modernization efforts.

Water continues to track MS4 PRPs. Here are the numbers: reviewed of those received: 100% (178 total, there are at include about 250 MS4s)

- ed of those reviewed: 87% (155 of 178)
- ived: 8
- approved: 31

ked in terms of PRPs instead of MS4s, since there are at involve many jurisdictions. The York County PRP includes nich will be approved shortly.

egulated MS4s in the Chesapeake Bay watershed (not ad PA Turnpike Commission). Of these, 79 have waivers. Of th permit coverage, 84% have approved PRPs.

e progress on completing PRP reviews and approval. f permittees in the Chesapeake Bay Watershed do not yet

S4s in Chesapeake Bay Watershed have approved PRPs and ir plans. DEP continued to work with the few remaining t yet have approved PRPs.

presented to WRAC in November 2024. The draft PAG-13 is public comment on January 18, 2025. A tentative renewal mber 30, 2026.

e for 2022-2023.

PRPs were received on October 27 and 31, 2022, s will be reviewed by DEP Central Office. Central Office will EP regional offices where collaborative BMP projects with are proposed.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									DEP reviewed and provi PennDOT and PTC are in anticipated that final PR end of 2023. <b>2024 Update:</b> DEP is in the process of permit which will forma
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						<ul> <li>2020 Update: Project has been scoped support the development implemented.</li> <li>2021 Update: State funds have been me the intake queue for DER</li> <li>2022 Update DEP Bureau of Informati previous project cost protect fund</li> <li>2023 Update: State funds have been a not yet started. Prioritizat how quickly this project</li> <li>2024 Update: State funds have been a not yet started. Prioritizat</li> <li>bow quickly this project</li> </ul>
Section 3	Countywide Action	c							how quickly this project
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 Action Plan in October. I the pilot counties. Tier 2 the final stages of finaliz progress report in 2021. 2021 Update:

wided comments on PennDOT and PTC's draft PRPs. in the process of addressing DEP's comments. It is PRPs from PennDOT and PTC will be submitted to DEP at the

of preparing major amendments to PennDOT's and PTC's nally approve their PRPs.

ed with the help of DEP IT. Until funds are available to nent, the system cannot be further developed and

n made available through the Clean Water Fund. Project is in DEP Bureau of Information Technology.

ation Technology re-evaluated project and determine provide to BCW was unrealistic so the rescoped project unding so project is currently on hold.

approved for the initial phase of the project. The work has tization of all IT projects are being considered to determine oct can move forward.

approved for the initial phase of the project. The work has tization of all IT projects are being considered to determine oct can move forward.

ed annual progress templates to DEP for their Countywide r. DEP met and discussed progress templates with each of r 2 counties submitted their Draft Plans in October and are in lizing their CAPs. Tier 2 counties will submit their first annual 21.

Action #	Description	Performance Target(s) and	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	
									Pilot counties submitted
									updates to DEP for their
									discussed progress temp
									Tier 2 counties submitte
									Action Plans in Septemb
									of the Tier 2 counties.
									All Tier 3 and 4 counties
									2021. DEP met and disc
									counties. DEP also cond
									December for the Tier 3
									County annual progress
									Countywide Action Plan
									2022 Update:
									Tier 2 counties submitte
									updates to DEP for their
									discussed progress temp
									Pilot and Tier 3&4 count
									Countywide Action Plan
									with each of the Pilot an
									County annual progress
									Countywide Action Plan
									2023 Update:
									Pilot and Tier 3&4 count
									milestone updates to DE
									and discussed progress
									Tier 2 counties submitte
									Action Plans in October.
									the counties.
									County annual progress
									Countywide Action Plan
									2024 Update:
									Pilot and Tier 3 & 4 cour
									implementation progres

ed annual progress reports and 2022-23 CAP milestone eir Countywide Action Plans in September. DEP met and mplates and milestones with each of the pilot counties.

tted annual progress reports to DEP for their Countywide nber. DEP met and discussed progress templates with each

es competed and submitted their CAPs to DEP in September iscussed CAP initiatives with each of the Tier 3 and 4 nducted a "Transition to Implementation" webinar in <sup>-</sup> 3 and 4 counties.

ss and two-year milestone updates are published to the <u>DEP</u> ans website.

tted annual progress reports and 2022-23 CAP milestone eir Countywide Action Plans in September. DEP met and mplates and milestones with each of the Tier 2 counties.

Inties submitted annual progress reports to DEP for their ans in September. DEP met and discussed progress templates and Tier 3&4 counties.

ss and two-year milestone updates are published to the <u>DEP</u> ans website.

unties submitted annual progress reports and 2022-23 CAP DEP for their Countywide Action Plans in October. DEP met ss templates and milestones with each of the counties.

tted annual progress reports to DEP for their Countywide er. DEP met and discussed progress templates with each of

ss and two-year milestone updates are published to the <u>DEP</u> ans website.

Pilot and Tier 3 & 4 counties provided annual progress reports to reflect on their implementation progress of their Countywide Action Plans for the 2023-2024 time

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									period. DEP WAAS staff reports. Tier 2 counties submitte for the 2023 – 2024 tim county partners on thes
3.4.1(i)	DEP staff will conduct a full review of each county CAP and develop a CAP Highlights and Trends summary of findings. DEP staff will coordinate efforts between county CAP partners and state program action leaders to identify key focus areas that are creating barriers for progress and work together in 2024 to identify strategies for success in overcoming these identified issues.		DEP	34 CAP Counties	March 2022				<ul> <li>2022 Update: This is a new milestone</li> <li>Tier 2 counties submitted updates to DEP for theid discussed progress tem</li> <li>Pilot and Tier 3&amp;4 count Countywide Action Plant with each of the Pilot and</li> <li>County annual progress</li> <li>Countywide Action Plant</li> <li>2023 Update: Pilot and Tier 3&amp;4 count milestone updates to D and discussed progress</li> <li>Tier 2 counties submitted Action Plans in Octobert the counties.</li> <li>County annual progress</li> <li>County annual progress</li> <li>County annual progress</li> <li>Tier 2 counties submitted Action Plans in Octobert</li> <li>The counties.</li> <li>County annual progress</li> <li>Countywide Action Plant</li> <li>In October, a Clean Watter</li> <li>state program action leafor progress and work to overcoming these ident</li> <li>2024 Update: Pilot and Tier 3&amp;4 counter</li> <li>Countywide Action Plant</li> <li>Moto Tier 3&amp;4 counter</li> <li>Motor Tier 3&amp;4 counter</li> &lt;</ul>

aff reviewed and gave feedback to county partners on these

itted Two-Year Milestone reports and updated CAST scenarios ime period. DEP WAAS staff reviewed and gave feedback to nese reports.

ne for 2022-2023.

itted annual progress reports and 2022-23 CAP milestone heir Countywide Action Plans in September. DEP met and emplates and milestones with each of the Tier 2 counties.

unties submitted annual progress reports to DEP for their lans in September. DEP met and discussed progress templates and Tier 3&4 counties.

ess and two-year milestone updates are published to the <u>DEP</u> lans website.

unties submitted annual progress reports and 2023-24 CAP DEP for their Countywide Action Plans in October. DEP met ss templates and milestones with each of the counties.

itted annual progress reports to DEP for their Countywide er. DEP met and discussed progress templates with each of

ess and two-year milestone updates are published to the <u>DEP</u> lans website.

Vater Gathering was held between county CAP partners and leaders to identify key focus areas that are creating barriers k together in 2024 to identify strategies for success in entified issues.

unties submitted annual progress reports to DEP for their lans in October. DEP met and discussed progress templates nties.

Action #	Description	Performance Target(s) and	Responsible Party(jess) 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	
									Tier 2 counties submittee Countywide Action Plans and milestones with eac County annual progress <u>Countywide Action Plans</u> Since January 2024, a dir have dedicated nearly 1. Teams that were created more than 80 county, st include program staff fro county agencies as well nonprofits and state and recommendations to ad first Clean Water Gather included: technical and a and funding and multi-g The three teams have fir areas. They have develo recommendations have positioned to share thes policymakers at the seco January 2025.
3.4.1(ii)	Create a Healthy Communities, Healthy Waters annual report highlighting PA's progress and sharing county- based success stories.		DEP	Chesapeake Bay Watershed	September 2022				<ul> <li>2022 Update: This is a new milestone of The 2021 Healthy Water PA's Plan website.</li> <li>2023 Update: The 2022 Healthy Water PA's Plan website.</li> <li>2024 Update: The 2023 Healthy Water PA's Plan website.</li> </ul>

tted 2024-2025 milestone updates to DEP for their ans in October. DEP met and discussed progress templates each of the counties.

ss and two-year milestone updates are published to the <u>DEP</u> ans website.

diverse and collaborative group of more than 60 people v 1,000 people hours across three Clean Water Progress ted following the October 2023 Clean Water Gathering of state and federal program action leaders. These teams from DEP, SCC, DCNR, CAP Coordinators associated with ell as the private sector, and additional individuals from and federal entities. The three teams worked on developing address priority action area challenges identified during the hering in October 2023. Those challenge areas identified d administrative assistance, staff building and staff retention, i-grant coordination.

finalized their recommendations to address the challenge eloped 25 actionable recommendations. These 25 we been catalogued and summarized. The teams are lese recommendations with state action leaders and econd Clean Water Gathering, which will take place in

e for 2022-2023.

ters Healthy Communities Annual Report can be found on

ters Healthy Communities Annual Report can be found on

ters Healthy Communities Annual Report can be found on

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	(2
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			<ul> <li>2020 Update: Tier 2 counties are in finational will be updated in 2021 to 2021 Update: DEP and SRBC have work CAST scenarios. To facilit following:</li> <li>1. Create a standardized crosswalk and definitions DEP/SRBC provided train 2. When counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC collaborate areas of opportunity, and 4. DEP/SRBC presented to county and answer technom 5. DEP/SRBC worked tog concerning wastewater area 6. SRBC is on track to corr Implementation Toolbox 7. SRBC provided a comp DEP. DEP did a QA/QC are 2022 Update: DEP and SRBC have work To facilitate this process, 1. Create a standardized crosswalk and definitions DEP/SRBC provided train 2. When counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC provided train 2. When counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC provided train 2. When counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC provided train 2. When counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC presented to county.</li> <li>3. DEP/SRBC collaborate areas of opportunity, and the counties submit and shared results in pie SRBC and DEP discussed to county.</li> <li>3. DEP/SRBC presented to answer technical questio 5. DEP/SRBC worked tog concerning excess in the 6. SRBC completed Tier 2.</li> </ul>

final stages of finalizing their CAPs. The Phase 3 WIP input file 21 to represent the Tier 2 CAPs.

orked closely to assist Pilot and Tier 3 and 4 counties with cilitate this process, DEP and SRBC collaborated on the

eed and user-friendly BMP Template with directions, BMP ons and for counties plan their BMPs numeric goals. aining and answered questions about the BMP Template. mitted their BMP Template, SRBC created CAST scenarios bie charts and tables via PowerPoint to be reviewed by DEP. ed the CAST scenario results before presenting to each

ated to present the CAST results, use the Toolbox to highlight and answer technical questions.

ed the difference between CAST17 and CAST19 to each Tier 1 chnical questions.

together to investigate and find solutions to issues er and excess in the CAST19 model.

complete Pilot and Tier 3 and 4 Snapshots and poxes.

mprehensive QA/QC document for their contracted work for C analysis of SRBC's Franklin County CAST Scenario

orked closely to assist Tier 2 counties with CAST scenarios. ess, DEP and SRBC collaborated on the following:

zed and user-friendly BMP Template with directions, BMP ons and for counties plan their BMPs numeric goals.

aining and answered questions about the BMP Template.

mitted their BMP Template, SRBC created CAST scenarios

pie charts and tables via PowerPoint to be reviewed by DEP.

ed the CAST scenario results before presenting to each

ated to present the CAST results, use the Toolbox to highlight and answer technical questions.

ed the difference between Tier 2 2020 CAST county runs and stions.

together to investigate and find solutions to issues he CAST19 model.

er 2 Snapshots and Implementation Toolboxes.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									7. SRBC provided a con DEP.
									8. SRBC assisted with T
									Amendment in regard t
									created procedures for with EPA CBPO.
									2023 Update:
									DEP and SRBC have wor
									CAST scenarios. To faci
									following: DEP/SRBC collaborated
									implementation rates f
									Utilized a standardized
									crosswalk and definitio
									DEP/SRBC provided tra
									When counties submitt shared results in pie cha
									SRBC is on track to com
									SRBC provided a compr DEP.
									SRBC assisted with Tech
									2024 Update:
									DEP and SRBC have wo
									To facilitate this proces
									DEP/SRBC collaborated
									implementation rates f
									Updated the standardiz
									BMPs to create more ad
									numeric goals. DEP/SR BMP Template.
									When counties submitt
									shared results in pie cha
									SRBC is on track to com

omprehensive QA/QC document for their contracted work for

n Technical Updates involving CAST scenarios to the WIP3 d to Climate Change and Non-reporting programs. SRBC or these updates and participated on WIP3 evaluation calls

vorked closely to assist Pilot and Tier 3 and 4 counties with acilitate this process, DEP and SRBC collaborated on the

ed to present data from CAST showing the BMP s from 2019 and 2022 along with the proposed CAP BMPs

ed and user-friendly BMP Template with directions, BMP ions and for counties to plan their BMPs numeric goals. raining and answered questions about the BMP Template.

itted their BMP Template, SRBC created CAST scenarios and charts and tables with DEP.

mplete Pilot and Tier 3 and 4 Snapshots.

prehensive QA/QC document for their contracted work for

chnical review of CAST23.

vorked closely to assist Tier 2 counties with CAST scenarios. ess, DEP and SRBC collaborated on the following: ed to present data from CAST showing the BMP s from 2019 and 2023 along with the proposed CAP BMPs

dized and user-friendly BMP Template to only calculate total accurate modeling and for counties to plan their BMPs SRBC provided training and answered questions about the

itted their BMP Template, SRBC created CAST scenarios and charts and tables with DEP.

SRBC is on track to complete Tier 2 Snapshots.

 Description	Performance Target(s) and	Responsible Party(ies) 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	
Track and report progress to continue implementation of the Phase 3 WIP State Numeric Commitments described in Section 4, State Actions in the counties with minimal reductions.	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	State staffing support Internal and External Coordinati on				<b>2020 Update:</b> Conservation Districts contribution is worker in Nutrient/Manure Manage and as a new report DCNR Recreation is worker PracticeKeeper. <b>2021 Update:</b> See above for CAP update         PracticeKeeper data colle Conservation Districts were BMP Submission capabile <b>2022 Update:</b> See above for CAP update         DEP staff are working withe new Data Warehouse         For 2022 Progress, DEP were commission, to report the Progress.         DEP staff will continue to on non-MS4 land througe <b>2023 Update:</b> See above for CAP update         DEP staff are working withe new Data Warehouse         For 2022 Progress, DEP were commission, to report the Progress.         DEP staff will continue to on non-MS4 land througe         DEP staff are working withe new Data Warehouse         For 2023 Progress, DEP were commission and througe Progress commission compare the progress commission commission commission compare the progress commission commis

continue to use the PracticeKeeper system, as required by e Management and Bay Technician agreements. PennDOT eporting program for stormwater BMPs for 2020 progress. orking to report stormwater BMPs on non-MS4 land through

dates.

ollection is improving with expanded use by County with improved functionality including Partner (non-CCD) bility.

dates.

with GeoDecisions to transfer data from PracticeKeeper to use

P worked with a new data reporter, the PA Turnpike their historic and current stormwater BMPs for 2022

e to work with DCNR Recreation to report stormwater BMPs ugh PracticeKeeper.

dates.

with GeoDecisions to transfer data from PracticeKeeper to use.

P worked with a new data reporter, Larson Design Group captured with non-intrusive remote-sensing methodology.

work with DCNR to report stormwater BMPs on non-MS4 Keeper.

dates.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
									<ul> <li>DEP staff are working w Data Warehouse.</li> <li>For 2024 Progress, DEP BMP types and double to investigation into their heir numbers.</li> <li>A remote sensing pilot piin Spring 2025 to accurate PA's portion of the Chession of the Chession tillage BM</li> <li>DEP staff continued to will and through PracticeKee</li> <li>Nutrient Management (croplands that had recesing bay model, while also get for the efficiency of the Total reportable BMPs heir</li> </ul>
3.4.4	Amend the Phase 3 WIP to incorporate the additional CAPs that are developed (Phase 1 and 2)	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed	DEP	Phase 1: Tier 2 Counties Phase 2: Tier 3 and 4 Counties	Phase 1: December 2020 Phase 2: December 2021	State staffing support Internal and External Coordination			<ul> <li>2020 Update: Phase 1 CAPs are completed</li> <li>2021 Update: Phase 1 and Phase 2 CAR Action Plans website.</li> <li>Pennsylvania's Phase 3 Version</li> <li>2021 and published to the evaluation</li> <li>2022 Update: EPA provided the evaluation</li> <li>DEP resubmitted the find 2022. EPA published the evaluation</li> <li>2023 Update: No update to this milest</li> </ul>

with GeoDecisions to transfer data from PracticeKeeper to

P worked with the PA Game Commission to report 6 new e their reportable BMPs. The Game Commission is doing an ir historic BMPs and will report them in 2025 to further boost

t project is underway with methodology approval expected arately verify and report conservation tillage BMPs within esapeake Bay watershed. A significant increase in MPs is expected when we begin using this new methodology.

work with DCNR to report stormwater BMPs on non-MS4 Keeper.

t (NM) BMPs continue to increase, further removing ceived a penalty of 20% added to their loading rates in the getting a stacked reduction to their loading rate to account ne NM BMPs.

s have increased by 1,500 records this year to nearly 16,000.

pleted.

CAPs are completed and published to the DEP Countywide

3 WIP Amendment was submitted to EPA by December 31, o the <u>DEP Pennsylvania's Plan</u> website.

luation of the draft amended Phase 3 WIP on April 18, 2022. final amended Phase 3 WIP by the EPA deadline of July 18, their final evaluation on November 21, 2022. Pennsylvania's 3 WIP is published to the DEP website. <u>PA's Plan</u>

estone. This milestone is complete.

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>	
			_			Recommendations	Technical and	Technical and	
							Financial	Financial	

# **Priority Initiative 5: Compliance**

.5.1	Pass the				2019-2020	2020 Update:
	Fertilizer Bill to				Legislative	Fertilizer Bill was not p
	achieve the				Session	
	identified nutrient					<b>2021 Update:</b> Fertilizer Bill is being d
	reductions on					
	urban and					2022 Update:
	agriculture lands.					The fertilizer bill was a
						2023 Update:
						The fertilizer bill was p
						2024 Update:
						PDA's Bureau of Plant
						management law.
5.2	Review, consider	Incorporate revised	SCC, Penn State,	Statewide	July 2020	2020 Update:
	and potentially	P index tool into	DEP, NRCS			DEP is on track and cu
	incorporate a	future nutrient				use of sewage sludge,
	revised	management				consideration is incorp
	Phosphorus Index into the	planning efforts				consideration of the to
	planning	where approved for use				have been made on w
	requirements for					2021 Update:
	land application					P-Index Version 3 is st
	of biosolids.					early 2022. DEP is doin
						authorize land applica
						index to the biosolids
						significant opposition
						2022 Update:
						DEP has developed pro
						sludge (AKA biosolids)
						Board, the Water Reso
						stakeholder workgrou
						stakeholder groups ar
						Legislative Budget Fin
						holders to comply wit
						Permit PAG-08 and Ge Chesapeake Bay Wate
				1		

## Progress to Date (2020 - 2021 - 2022 - 2023 - 2024)

passed in the 2019-2020 Legislative Session.

discussed in the 2020-2021 Legislative Session.

approved by the PA House and Senate.

passed and signed into law.

Industry has been implementing the new urban nutrient

urrently developing draft permits to reissue for the beneficial PAG-07, PAG-08, and PAG-09. One of the items for poration of the management of sewage sludge with the total phosphorus content of the sewage sludge. No decisions what will or will not be in these draft permits to date.

still in development and testing, hopefully to be released in ing outreach on the changes to the general permits that ation of biosolids which include the incorporation of the management requirements. DEP is coming up against to the proposed P-index requirement.

re-draft General Permits for the beneficial use of sewage ). These permits were shared with the Agricultural Advisory source Advisory Committee, as well as a separate DEP up. DEP presented the proposed changes to the various nd gathered feedback. The PA legislature has directed the nance Committee to "study the costs and methods for permit th the proposed revisions to General Permit PAG-07, General eneral Permit PAG-09 called for under Pennsylvania's Phase 3 ershed Implementation Plan." DEP continues work on these

Action #	Description	Performance Target(s) and	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	
									2023 Update: Work continued in 2023 2024 Update: DEP eagerly awaited the Perfluorooctanoic Acid ( steps for the Biosolids p held.
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				<ul> <li>2020 Update: The Pennsylvania Fish and Bureau of Forestry to co- along the Juniata River of approximately eight acro- place in April 2021. If all additional parcels owner implementation.</li> <li>2021 Update: The partnership planting working with PA DCNR to DCNR is also exploring of DCNR-controlled lands, standard PFBC again partnered w Yellow Breeches Creek, sproperty.</li> <li>2023 Update: PA DCNR is working with of Riparian Forest Buffer 2024.</li> <li>2024 Update: The planting of nearly 30 Park was implemented at working with Danville St projects, both forests an Watershed. DSH was ree Services in June of 2024, their work.</li> </ul>

23.

the Draft Sewage Sludge Risk Assessment for id (PFOA) and . In the meantime, discussions regarding next s permits, including the incorporation of the P-Index, were

and Boat Commission (PFBC) is partnering with DCNR's conduct a pilot riparian forest buffer implementation project er on four parcels owned by PFBC, which will total cres of buffer planting. These plantings are scheduled to take all goes well with these pilot plantings, PFBC will look into ned by the Commission for potential riparian forest buffer

tings with PAFBC took place in April 2021, and PAFBC is R to identify additional locations for plantings in 2022.

g options for Lawn Conversion project implementation on s, such as at state park and state forest offices.

I with DCNR to plant 1.5 acres of streamside buffer along the k, Cumberland County on the PFBC's Camp Hill Access

vith the Alliance for the Chesapeake Bay to plant ~300 acres fer at Big Elk State Park. This project will be implemented in

300 acres of riparian forest buffers at Big Elk Creek State
 d as intended during the spring of 2024. DCNR is also
 State Hospital to implement ~10 acres of Lawn to Habitat
 and meadows, on their property within the Chesapeake Bay
 recognized by the Secretary of the Department of Human
 who presented DSH with an environmental award for

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
Section 2	State Actions Num	neric Commitments							
2.5.1A 2.5.1A	Complete	Permit 100% of all CAFOs (350+ operations in Chesapeake Bay Watershed); 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. 2022-2023 Update: Implement proactive outreach strategies to regulated community to ensure PAG-12 general permit renewal by April 2023.	DEP DEP, SCC, CDs		Ongoing				2020 Update:A modification of the PA2020 requiring the submisubmitted an end of yeaand compliance informat2021 Update:DEP and EPA have attentworkgroup as they delibreporting process. DEPis transparent and consiremains on schedule for2022 Update:EPA has reviewed DEP'sparticipated in AAB meetincluding provisions relatadditional BMPs to meetthe draft PAG-12 endedreceived that included toprovide sufficient time topublished the PAG-12 ext2023 Update:DEP reissued a final PAGgeneral permit will beccapproximately 380 existsubmit a renewal NOI byDEP developed and willSpreadsheet for use in hin a watershed that is impermitting and complianttraining slides to the DE2024 Update:DEP continues to implerag permitting. Some of
	complaint		,,		00				DEP's regional offices co

PAG-12 General Permit was issued by DEP on October 31, bmission of NOIs to remain covered under PAG-12. DEP has rear CMS report and will continue to provide CAFO permit mation to ICIS.

ended the Agricultural Advisory Board (AAB) CAFO liberate areas for streamlining the permit application and P will work with the AAB as well as EPA to ensure that there asistent communications regarding the PAG-12 and it for renewal.

P's proposed draft PAG-12 general permit and has eetings. EPA proposed additional elements to the PAG-12, elated to the Chesapeake Bay TMDL and identification of eet the TMDL, as needed. The public comment period for ed on October 31, 2022. Four sets of comments were two requests by industry organizations to extend PAG-12 to e to vet new requirements relating to TMDL consistency. DEP <u>extension</u> on December 17, 2022.

AG-12 General Permit on September 16, 2023 and the come effective on January 1, 2024. Letters were mailed to isting PAG-12 permittees, notifying them that they must by December 31, 2023. In accordance with EPA's request, ill be implementing a Reasonable Potential Analysis helping to determine eligibility for PAG-12 where CAFOs are impaired for nutrients or sediment. DEP provided training to iance staff regarding the reissued PAG-12 and provided the DEP Agriculture Advisory Board.

ement the CAFO permitting program. DEP established an er workgroup in 2024 and solicited feedback on streamlining of the suggestions will be followed up on during 2025.

DEP's regional offices complete this activity on an ongoing basis.

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	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 co 2024 Update: DEP's regional offices co
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				<ul> <li>2020 Update: Chesapeake Bay Ag Insp was updated in May 202 developed and publishe</li> <li>2021 Update: Chesapeake Bay Ag Insp Operating Procedure wa Annual Inspections Sum</li> <li>2022 Update: The CBAIP Phase 1 SOP the DEP website in May Summary was published announcement as well.</li> <li>2023 Update: The CBAIP SOP was revi 2022-2023 Agriculture A website in Fall 2023.</li> <li>2024 Update: The 2023-2024 Agriculture website in Fall 2024.</li> </ul>
2.5.4A	Implement Chesapeake Bay Agriculture Inspection	2022-2023 Update: The CBAIP Phase 2 program will continue to be	DEP, SCC, CDs, NRCS, Private Consultants	Chesapeake Bay	Beginning July 2020	Available funding for Technical Assistance and construction of			<b>2020 Update:</b> Chesapeake Bay Ag Insp was finalized June 2020 Guidelines (provided via

complete this activity on an ongoing basis.

nspection Program (CBAIP) Standard Operating Procedure 2020. The 2019-2020 Annual Inspection Summary has been shed to the DEP Ag Compliance website.

nspection Program (CBAIP) Phase 1 (CBO-INSP-001) Standard was updated in May 2021. The <u>2020-2021 Agriculture</u> <u>ummary</u> was published to the DEP website in December 2021.

DP and the CBAIP Phase 2 SOP were merged and published on lay 2022. The <u>2021-2022 Agriculture Annual Inspections</u> ned to the DEP website in Fall 2022, with a <u>press release</u> ell.

evised and published to the DEP website in August 2023. The <u>e Annual Inspections Summary</u> was published to the DEP

Iture Annual Inspections Summary was published to the DEP

nspection Program – Phase 2 Standard Operating Procedure 20 along with the Phase 2 Inspection Program Funding via DEP Environmental Stewardship Funds). Phase 2

Action #	Description	Performance Target(s) and	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	
	Program, Phase 2 Pilot, with an emphasis on meeting both state planning and implementation requirements on non-CAFO operations.	expanded as more counties complete their Phase 1 inspections.				BMPs remains a concern.			Inspections have been/v counties by the conserva Regional Office beginnin <b>2021 Update:</b> CBAIP Phase 2 (CBO-INS 2021. The <u>2020-2021 /</u> the DEP website in Dece <b>2022 Update:</b> The CBAIP Phase 1 SOP a the DEP website in May <u>Summary</u> was published announcement as well. <b>2023 Update:</b> The CBAIP SOP was revise <u>2022-2023 Agriculture /</u> website in Fall 2023. In the 2022-2023 report counties. <b>2024 Update:</b> DEP continues to condu Conservation Districts. I counties.
2.5.5A	Participate in EPA's formal assessment of Pennsylvania's Animal Agriculture Programs	2022-2023 Update: EPA will conduct a follow-up assessment of Pennsylvania's animal agriculture programs to the initial 2015 assessment. 2024-2025 Update: Consider recommendations from EPA's final Animal Ag Assessment Report for incorporation of	EPA, DEP, SCC, PDA, CCDs	Chesapeake Bay/Statewid e	Beginning January 2022				2021 Update: DEP and SCC staff respond questionnaire. This is a magnetic 2022 Update: EPA provided DEP with a coordinated the complete the deadline of February DEP Southcentral and N conservation districts (L March 2022. EPA conduct the conservation districts and DEP submitted comprovided the final report

n/will be conducted in Lancaster, Chester, and Adams rvation districts, and in York County by the DEP Southcentral ning in July 2020.

NSP-002) Standard Operating Procedure was updated in May <u>1 Agriculture Annual Inspections Summary</u> was published to ecember 2021.

DP and the CBAIP Phase 2 SOP were merged and published on lay 2022. The <u>2021-2022 Agriculture Annual Inspections</u> ned to the DEP website in Fall 2022, with a <u>press release</u> ell.

vised and published to the DEP website in August 2023. The <u>e Annual Inspections Summary</u> was published to the DEP

orting year, 222 Phase 2 Inspections were completed by 11

duct Phase 2 inspections with DEP staff and County . In reporting year, 2023-2024, 271 Phase 2 inspections in 19

ponded to informal questions and began the review of the a new milestone for 2022-2023.

th a questionnaire to complete in December 2021. DEP oletion of the questionnaire and submitted to EPA, meeting ary 11, 2022. EPA held meetings with DEP Central Office, Northcentral Regions, PDA and SCC, as well as four (Lycoming, Snyder, Franklin, and Lancaster) throughout iducted file reviews of CAFOs and CAOs, provided by DEP and ricts. EPA provided the draft report to DEP on July 8, 2022, pomments on July 22, 2022, meeting the EPA deadline. EPA ort to DEP on December 22, 2022.

Action #	Description	Performance Target(s) and	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	
		future programmatic changes.							The final report noted the its efforts to reduce nut watershed" and that "Per- and made progress towe challenges that impact to the scale of agriculture of on-one support for farm <b>2023 Update:</b> EPA published the <u>2022</u> January 4, 2023. EPA co Assessment Initiative, o DEP continues to work w compliance. <b>2024 Update:</b> DEP continues to work w compliance.
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				2022 Update: CAFO CEI SOP has been staff. The CAFO CEI SOP 2023 Update: Use of the CAFO CEI SOF 2024 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 under development. Dra 2023 Update: Revisions to the Manure were published as Draft comments. The final gui 2024 Update: Revisions to the Manure were published final in A

d that "DEP has made progress since the 2015 assessment in nutrient and sediment loads in the Chesapeake Bay "Pennsylvania has responded to the 2015 recommendations owards meeting their 2025 goals. However, there are ct the pace and scale of program implementation. Notably, re coupled with the demand for assistance, funds, and oneirmers, impacts the state's ability to meet 2025 goals."

22 Animal Agriculture Programs Assessment Report on conducted assessments, following their Conservation on four Animal Feeding Operations (AFOs) in May 2023. k with EPA and the conservation district to ensure regulatory

with EPA and the conservation district to ensure regulatory

en released and is currently being utilized by DEP regional OP has also been provided to EPA.

SOP is ongoing.

SOP is ongoing.

are Management Manual Technical Guidance Document are Draft is scheduled to be published in Spring 2023.

are Management Manual Technical Guidance Document aft in August 2023. DEP is working to respond to <u>public</u> guidance is scheduled to be published in Summer 2024.

ure Management Manual Technical Guidance Document n April 2024. This milestone is complete.

Action #	Description	Performance Target(s) and	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	
					•	-			A coordinated approach ahead of publication an
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 component. This agreement also includes a prioritization of identification of Concentrated Animal Operations (CAOs).	DEP/SCC	Chesapeake Bay/Statewid e	July 2022				<ul> <li>2022 Update: This is a new milestone Delegation agreements place from July 1, 2022</li> <li>2023 Update: This milestone was imp</li> <li>2024 Update: Currently in year three</li> </ul>
2.5.9A	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				<ul> <li>2022 Update: This position is vacant a</li> <li>2023 Update: The position was reclass of success in filling the p process will commence</li> <li>2024 Update: This position was filled.</li> </ul>
2.5.10A	Hire 2 Water Program Specialists to support agricultural compliance,	2022-2023 Update: Water Program Specialists will provide additional support and oversight for non-	DEP	Chesapeake Bay/ Statewide	February 2023				2022 Update: One water program special of the spectrum of the

ach to education, outreach, and technical support began and continues.

ne for 2022-2023. hts were approved at the July 2022 SCC meeting and will be in 22 June 30, 2027.

nplemented in the new delegation agreements.

ee of the delegation agreement.

nt and currently being reclassified and reposted.

lassified and posted as a Water Program Specialist due to lack ne position in the Engineer classification. Interview and hiring nee in early 2024.

ed. Ag compliance is now at full staff.

specialist is hired and supporting agriculture compliance, cement activities. One position is currently vacant. Selection is ember 2022.

Action #	Description	Performance Target(s) and	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	
	inspection, and enforcement activities, to include Nutrient and Manure Management, Erosion and Sediment Control for Agriculture, Chesapeake Bay Agricultural Inspection Program (CBAIP) and CAFO Program	CAFO and CAFO compliance, inspection, and enforcement							The second Water Progr <b>2024 Update:</b> Both Water Program Sp Agriculture Compliance
2.5.11A	Hire 1 Water Quality Specialist (WQS) to conduct inspections on CAFO and non- CAFO agricultural operations	2022-2023 Update: The Northeast Regional Office will hire a Water Quality Specialist to conduct CAFO and non-CAFO inspections	DEP	Northeast Counties	December 2023				<ul> <li>2022 Update: This is a new milestone</li> <li>Communication with th</li> <li>2023 Update: Communication with th ongoing.</li> <li>2024 Update: Through 2024, the hirin 2025.</li> </ul>
2.5.12A	Nutrient Management Implementation – during compliance inspections, DEP staff will continue to promote the benefits of implementation of Nutrient and Manure Management	2022-2023 Update: 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	DEP	Chesapeake Bay/Statewid e	Ongoing through December 2025				2022 Update: DEP's regional offices co 2023 Update: DEP's regional offices co 2024 Update: DEP's regional offices co

ogram Specialist was hired in February 2023.

Specialists funded by CBRAP continue their work for the nee Section.

ne for 2022-2023.

the Regional Office is ongoing.

the Regional Office and efforts to secure a position is

iring process continued and was officially hired on January 6,

s complete this activity on an ongoing basis.

s complete this activity on an ongoing basis.

s complete this activity on an ongoing basis.

Action #	Description	Performance Target(s) and	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	
	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 will provide contact information, as needed, for certified Nutrient Management Plan specialists								
2.5.13A	Erosion and Sediment Control - during compliance inspections, DEP staff will continue to promote the benefits of implementation of erosion and sediment control plans, which	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	DEP	Chesapeake Bay/ Statewide	Ongoing through December 2025				2022 Update: DEP's regional offices 2023 Update: DEP's regional offices 2024 Update: DEP's regional offices

ces complete this activity on an ongoing basis.

ces complete this activity on an ongoing basis.

ces complete this activity on an ongoing basis.

Action #	Description	Performance Target(s) and	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	
	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 area (AHUA) protection, etc. DEP staff will provide contact information, as needed, for local conservation district or private consultant technical assistance.	regulated under <u>25</u> <u>Pa. Code §102.4(a)</u> .							
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			<ul> <li>2020 Update:</li> <li>DEP has reviewed and 2017. There are a few have delayed completed approved PRP plans a pollutant load reduction permittees in the Bay these permittees to recan be approved.</li> <li>2022 Update:</li> <li>While the majority of PRPs, DEP continues to recommended approved permittees to recan be permittees to recan be approved.</li> </ul>

and approved the majority of PRPs and TMDL Plans submitted in ew complicated cases, including cases under litigation, that pletion of reviews.

54 permittees within the Chesapeake Bay Watershed have is and are working on BMP implementation to meet the action obligations of their MS4 permits. There are currently 43 Bay Watershed without approved PRPs. DEP is working with the resolve the technical deficiencies with their PRPs to that they

y of permittees in the Chesapeake Bay Watershed have approved es to struggle to get the remaining permittees without approved

Action #	Description	Performance Target(s) and	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	
									PRPs to respond to tech
									needed to generate a PF
									to DEP to address this is
									path forward to get perr
									2023 Update:
									The majority of the MS4
									are implementing their
									permittees that do not y
									2024 Update:
									While the majority of pe
									PRPs, DEP continues to s
									PRPs to respond to tech
									needed to generate a PF assistance in multiple ca
2.5.25	Develop the	In the development	DEP	Statewide	Beginning				2020 Update:
	NPDES MS4	of this permit,			2019				DEP has prepared conce
	Permit	provide opportunities for							received input from the
		input from							2021 Update:
		stakeholders,							DEP is continuing to wor
		including but not limited to the Phase							interested parties throug
		3 WIP Stormwater							2022 Update:
		Workgroup, as part							DEP is coordinating with
		of the normal							anticipated that an anno
		public participation process.							be made soon.
									DEP has extended the M
									formed a workgroup tha
									times from November 2
									development of the reis
									2023 Update:
									The PAG-13 workgroup
									provided valuable feedb
									have been shared with E
									shared comments. It is
									published in 2024 for pu
									2024 Update:

chnical deficiency letters and provide the information PRP that can be approved. EPA offered technical assistance issue. EPA and DEP are working together to determine a ermittees to the point where their PRPs can be approved.

S4s in Chesapeake Bay Watershed have approved PRPs and ir plans. DEP continues to work with the few remaining t yet have approved PRPs.

permittees in the Chesapeake Bay Watershed have approved o struggle to get the remaining permittees without approved chnical deficiency letters and provide the information PRP that can be approved. EPA has provided enforcement cases.

ceptual plans for the next permit term and has solicited and ne regulated community and other stakeholders.

vork on next permit and is accepting comments from ough the MS4 resource account (<u>RA-EPPAMS4@pa.gov</u>).

ith EPA on the development of the next permit term. It is nouncement on the timeline for the future permit term will

MS4 General Permit (PAG-13) to March 15, 2025 and has hat includes EPA staff. The workgroup will meet at least 8 2022 to March 2023 and will help inform DEP's eissued PAG-13.

p met 8 times from November 2022 to March 2023 and dback. DEP has prepared pre-draft PAG-13 documents that h EPA. EPA has conducted a preliminary review and has is anticipated that a draft PAG-13 General Permit will be public comment.

Action #	Description	Performance Target(s) and	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	
									The draft PAG-13 is exp public comment period
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.	DEP	Statewide	Ongoing				of the PAG-13 workgroup 2020 Update: An end of year CMS reprised and compliance 2021 Update: An end of year CMS reprised and DEP will continue to 2022 Update: An end of year CMS reprised and of year CMS reprised and the year CMS reprised and the sear CMS reprised and the sear CMS continued to provide performed and of the year CMS continued to provide performed and the year CMS continued to provide performed and of the year CMS continued to provide performed and of the year CMS continued to provide performed and of the year CMS continued to provide performed and the year CMS continued to provide perf
2.5.4S	Develop the NPDES Industrial Stormwater Permit	2022-2023 Update: Renew the PAG-03 general permit.	DEP	Statewide	2019 through 2021				<ul> <li>2020 Update: A draft of the PAG-03 g under legal review.</li> <li>2021 Update: The current PAG-03 has PAG-03 is under review</li> <li>2022 Update: DEP published an initial PAG-03 on February 22 published a second draft published in the <u>PA Bull</u> March 24, 2023.</li> <li>2023 Update: This milestone was com</li> </ul>
2.5.55	Continue to implement the NPDES Industrial	Inspection metrics and results are provided to EPA	DEP	Statewide	Ongoing				An end of year CMS rep permit and compliance

xpected to be published on January 18, 2025 for a 60-day od. Many of the proposed changes to PAG-13 were the result roup feedback.

eport has been submitted, and DEP will continue to provide ce information to ICIS.

eport will be submitted during the Fall of 2021 for FFY 2021, to provide permit and compliance information to ICIS.

eport was submitted during the Fall of 2022 for FFY 2022, and provide permit and compliance information to ICIS.

VIS report was submitted to EPA for FY 2023, and DEP permit and compliance information to ICIS.

MS report was submitted to EPA for FY 2024, and DEP permit and compliance information to ICIS.

general permit for reissuance has been developed and is

has been administratively extended for one year. The draft ew.

tial draft of PAG-03 on January 22, 2022. EPA objected to 22, 2022. DEP resolved EPA's objection on June 3, 2022. DEP raft permit on August 20, 2022. The final PAG-03 was <u>sulletin</u> on December 24, 2022 and will become effective on

ompleted with the reissuance of PAG-03 in December 2022.

eport has been submitted and DEP will continue to provide ce information to ICIS.

Action #	Description	Performance Target(s) and	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	
	Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.							<ul> <li>2021 Update:</li> <li>An end of year CMS representation and compliance in the second second</li></ul>
2.5.65	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 provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES information to be provided by DEP for	DEP	Statewide	Ongoing				<ul> <li>2020 Update: DEP continues to implemassistance of delegated been submitted and DEF information to ICIS.</li> <li>2021 Update: DEP continues to implemassistance of delegated been submitted and DEF information to ICIS.</li> <li>2022 Update: DEP continues to implemassistance of delegated been submitted and DEF information to ICIS.</li> <li>2023 Update: DEP continues to implemassistance of delegated been submitted and DEF information to ICIS.</li> <li>2023 Update: DEP continues to implemassistance of delegated submitted to EPA and D information to ICIS.</li> <li>2024 Update:</li> </ul>

eport has been submitted and DEP will continue to provide the information to ICIS.

eport was submitted during the Fall of 2022 for FFY 2022, and rovide permit and compliance information to ICIS.

IS report was submitted to EPA for FY 2023, and DEP will ermit and compliance information to ICIS.

IS report was submitted to EPA for FY 2024, and DEP will ermit and compliance information to ICIS.

lement the NPDES program under Chapter 102 with the ed conservation districts. An end of year CMS report has DEP will continue to provide permit and compliance

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Action #	Description	Performance Target(s) and	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	
		ICIS database inclusion.							DEP continues to implen assistance of delegated submitted to EPA and DI information to ICIS. The term and became effect
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				<ul> <li>2022 Update: This is a new milestone for the projects will not cause properties will not cause properties do not cause properties do not cause properts do not cause pr</li></ul>
2.5.1W	Continue to implement the NPDES Sewage and Industrial Waste 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	DEP	Statewide	Ongoing				<ul> <li>2020 Update:</li> <li>DEP continues to implem been submitted and DEF information to ICIS.</li> <li>2021 Update:</li> <li>DEP continues to implem been submitted and DEF information to ICIS.</li> <li>2022 Update:</li> </ul>

lement the NPDES program under Chapter 102 with the ed conservation districts. An end of year CMS report was DEP will continue to provide permit and compliance the PAG-02 General Permit was reissued for a new 5-year ective on December 8, 2024.

e for 2022-2023.

ire Chapter 102 NPDES permittees to demonstrate that their e post-construction total suspended sediment (TSS) and ss of pre-construction loads using DEP-approved calculations.

ire Chapter 102 NPDES permittees to demonstrate that their post-construction total suspended sediment (TSS) and ss of pre-construction loads using DEP-approved calculations. nonstration has been memorialized in DEP's Draft PCSM

ire Chapter 102 NPDES permittees to demonstrate that their post-construction total suspended sediment (TSS) and ss of pre-construction loads using DEP-approved calculations. nonstration has been memorialized in DEP's Draft PCSM

ement the NPDES program. An end of year CMS report has DEP will continue to provide permit and compliance

ement the NPDES program. An end of year CMS report has DEP will continue to provide permit and compliance

Action #	Description	Performance Target(s) and	Responsible Party(ies) 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	
	1	information to be provided by DEP for ICIS database inclusion.							DEP continues to impler been submitted and DEI information to ICIS. <b>2023 Update:</b> DEP continued to impler submitted to EPA for FY information to ICIS.
									<b>2024 Update:</b> DEP continued to implet submitted to EPA for FY 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).

lement the NPDES program. An end of year CMS report has DEP will continue to provide permit and compliance

lement the NPDES program. The end of year CMS report was FY 2023. DEP will continue to provide permit and compliance

lement the NPDES program. The end of year CMS report was FY 2024. DEP will continue to provide permit and compliance