

New York Chesapeake Bay Restore Clean Water Action Items

2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates								
<b>Agricultural Sector</b>													
12/31/2023	NYS funding for agricultural technical assistance through the Agricultural Environmental Management (AEM) Program (P.65)	<p>Implement two years of the AEM Base Program, supporting technical assistance and BMP system implementation by Soil &amp; Water Conservation Districts through the AEM Tiers:</p> <p>Tier 1: Resource Inventory</p> <p>Tier 2: Environmental Assessment</p> <p>Tier 3: Conservation Planning</p> <p>Tier 4: BMP System Implementation</p> <p>Tier 5: Evaluation of Implemented Practices or Plan Update</p> <p>This program is funded through New York’s Environmental Protection Fund (EPF). During the last milestone period, the AEM Base Program provided funding for approximately \$2.8 million worth of technical assistance and \$841,000 worth of cost-share for BMP system implementation for Soil and Water Conservation Districts with substantial area in the watershed.</p>	NYS Department of Agriculture and Markets (NYS AGM)/NYS Soil and Water Conservation Committee (NYS SWCC)	On track	<p><b>2022 Update:</b> This milestone report summarizes work through the AEM Tiers completed by SWCDs in the USC area using funding from AEM Base Program Round 17 (2022-2023). Except when specifically noted, all data represent accomplishments within the Chesapeake Bay Watershed HUC12s. This work is in addition to accomplishments documented in prior milestone reports.</p> <table border="1"> <thead> <tr> <th>AEM Base Program</th> <th>Round 17 (2022-2023)</th> </tr> </thead> <tbody> <tr> <td>Districts Substantial Area in the Chesapeake Watershed</td> <td>17</td> </tr> <tr> <td>Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5</td> <td>\$3.2M*</td> </tr> <tr> <td>Total Cost-Share Funding to Implement Tier 4 BMP Systems on 66 Farms</td> <td>\$1.6M*</td> </tr> </tbody> </table> <p>BMP Systems Planned for Implementation:</p> <ul style="list-style-type: none"> <li>Erosion Control - Structural System</li> <li>Livestock Heavy Use Area Runoff Management System</li> <li>Petroleum and Oil Products Storage System</li> <li>Prescribed Rotational Grazing System</li> <li>Riparian Buffer System</li> <li>Silage Leachate Control and Treatment System</li> <li>Soil Health System</li> </ul>	AEM Base Program	Round 17 (2022-2023)	Districts Substantial Area in the Chesapeake Watershed	17	Total Technical Assistance Funding Awarded for Work through AEM Tiers 1-5	\$3.2M*	Total Cost-Share Funding to Implement Tier 4 BMP Systems on 66 Farms	\$1.6M*
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<sup>1</sup> As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.

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					<ul style="list-style-type: none"> <li>Stream Corridor and Shoreline Management System</li> <li>Waste Storage and Transfer System</li> </ul> <p>*includes AEM Base Tech dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.</p>
12/31/2023	NYS funding for agricultural practice implementation through the Agricultural Nonpoint Source Abatement and Control Program (AgNPS) (P.66)	Implement two rounds of the NYS Agricultural Nonpoint Source Abatement and Control Program (AgNPS). This program is funded through New York’s Environmental Protection Fund (EPF). \$18 million of statewide funding is proposed in the 2021-2022 budget. During the last milestone period a total of \$7.4 million was awarded to implement BMPs on 61 farms in the watershed. Installation of BMPs implemented in the watershed through this program will be reported on an annual basis.	NYS AGM/ NYS SWCC	On track	<p><b>2022 Update:</b> The ranked list of AgNPS Round 28 projects was awarded in October 2022, which includes funding for the following BMPs within the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> <li>- Waste Storage Facility (3 systems)</li> <li>- Riparian Forest Buffer (7 systems)</li> <li>- Heavy Use Area Protection (4 systems)</li> <li>- Livestock Exclusion Fencing (1 system)</li> <li>- Rotational Grazing (2 systems)</li> <li>- Soil Conservation – Structural (2 systems)</li> <li>- Stream Corridor Management (2 systems)</li> </ul> <p>Not including farmer cost share, over \$4.6 million in State funding was awarded for projects on 14 farms. Round 29 of the AgNPS program is expected to be released in winter 2023.</p>
12/31/2023	NYS funding for agricultural practice implementation through the Climate Resilient Farming Program (P.67)	Implement two rounds of the program. Program funds are available for projects that mitigate the impact of agriculture on climate change and enhance the on-farm adaptation and resiliency to projected climate conditions. This program is funded through New York’s Environmental Protection Fund (EPF). \$8 million of statewide funding is available for CRF Round 6 in 2022. BMPs implemented	NYS AGM/ NYS SWCC	On track	<p><b>2022 Update:</b> Round 6 of the Climate Resilient Farming Program was awarded in September 2022, including the following BMPs in the Chesapeake Watershed:</p> <ul style="list-style-type: none"> <li>- Riparian Forest Buffer (3 systems)</li> <li>- Stream Corridor and Shoreline Management System (3 systems)</li> <li>- Rotational Grazing (1 system)</li> <li>- Soil Conservation System – Structural (1 system)</li> <li>- Soil Conservation System – Cultural (4 systems)</li> </ul>

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		in the watershed through this program will be reported on an annual basis.			Not including farmer cost share, over \$1.3 million was awarded for projects on 11 farms in the Chesapeake Watershed. Round 7 of the CRF Program is expected to be released in winter 2023.
12/31/2023	NYS funding for Comprehensive Nutrient Management Plans (CNMPs) for small farms through the Dairy Acceleration Program (DAP) (P.70)	Implement two rounds of DAP to cost-share farm business planning and CNMP development/updates for dairy farms with fewer than 300 cows. This program is funded through the state Environmental Protection Fund (EPF). \$700,000 of statewide funding is proposed in the SFY 2020-2021 budget. BMPs implemented in the watershed through this program will be reported on an annual basis.	Cornell University, NYS Department of Environmental Conservation (NYS DEC), NYS AGM/ NYS SWCC	On track	<b>2022 Update:</b> During 2022, DAP funded 13 new CNMPs at \$75,564 and 13 updated CNMPs at \$55,089.
12/31/2023	Cover Crop Implementation Program (P.70)	DEC executed an amended contract to extend the current Cover Crop Implementation Program for a fifth year in 2022. NYSDEC is targeting 3,500 acres of cover crops for a total of 14,500 acres during the five years of implementation. During Year 4 of the program, 13,369 acres of cover crops were implemented in the watershed.	Upper Susquehanna Coalition (USC)	On track	<b>2022 Update:</b> A total of 13,538.22 acres of cover crops were implemented in the fall of 2022 as a result of the Cover Crop Implementation Program. A total of 113 farms participated across 12 counties.

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12/31/2023	BMP data collection and reporting (P.62)	Collect agriculture BMP data following the Agricultural Environmental Management approach and using USC’s online data management system to collect farm BMP data and convert to NEIEN-compliant format for the 2022 and 2023 Progress Runs. BMP data collection is supported by Chesapeake Bay Implementation Grant Funding (CBIG).	USC	On track	<b>2022 Update:</b> 2022 Agricultural BMP data was collected member SWCD’s and input into the USC’s AEM Online Tool for submission to the Chesapeake Bay Model via the NEIEN Node. 2022 Progress data was submitted via the NEIEN on September 1 <sup>st</sup> , October 19 <sup>th</sup> and the final submission on November 29 <sup>th</sup> ahead of the December 1 <sup>st</sup> , 2022 deadline. There were no NEIEN errors found during any of the submissions.
12/31/2023	Increase capacity of Reporting/Verification program, Enhanced BMP reporting (P.79-80) through the development of mobile application for annual practice reporting and verification	Using 2020 WIP assistance funds, the USC will oversee the development of a mobile “app” that will be used on a farm-by-farm basis either by the landowner or with assistance from their Soil and Water Conservation District to assist with reporting annual agricultural practices including Cover Crops, Tillage Practices, Precision Feed Management, Manure Incorporation, and Nutrient Management.	USC, NYS DEC	On track	<b>2022 Update:</b> The USC had secured assistance through the Tioga County GIS specialist for the development of this tool. This tool will be developed utilizing ArcGIS Online and Survey 123. The USC is currently in the process of acquiring a contractor to have the application developed.
12/31/2023	Increase capacity for agricultural BMP verification (P.79-80)	Implement and refine verification procedures for agricultural BMPs in the Chesapeake Bay watershed. Any updates to verification procedures will be reflected in New York’s Nonpoint Source QAPP on an annual basis as needed. Continue to evaluate program to be sure that all BMP’s are verified through “Whole Farm Verification” prior to the end of their lifespan. BMP	USC, NYS DEC	On Track	<b>2022 Update:</b> The random sampling selection process was completed for 2023, with 139 farms selected, which encompasses at least 238 individual practices. There were also 10 stream, 10 wetlands, and 2 urban buffers that were verified. These verification lists were sent out to member counties on November 22, 2022. All verification will be due by June 30,

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		verification is supported by Chesapeake Bay Implementation Grant Funding (CBIG). Discovered legacy BMPs should be reported if implementation, maintenance, and inspection years are accurate or estimated to the best of the data source’s ability. Discovered legacy BMPs should be reported if implementation, maintenance, and inspection years are accurate or estimated to the best of the data source’s ability.			2023.
12/31/2023	CAFO BMP data collection program (P.33)	Continue BMP data collection program for CAFO farms by combining NYSDEC compliance inspections with SWCD data collection and verification visits. Data collected will include both cost-shared and non-cost-shared BMPs to the extent possible to generate a complete record of implementation on CAFO farms. The CAFO BMP data collection program is supported by Chesapeake Bay Implementation Grant Funding (CBIG).	NYS DEC, USC	On Track	<b>2022 Update:</b> USC member counties participated in 15 CAFO inspections in the watershed during 2022. USC Staff document practice implementation on these farms and information is reported into the USC database, as outlined in the QAPP. During this year, no issues were reported.
12/31/2023	Agricultural Environmental Management (AEM) Outreach and Education (P.34)	Deliver outreach programs for farmers and agricultural professionals in the watershed about agricultural environmental management, including Cornell Cooperative Extension, Soil & Water Conservation District, NYS AGM,	USC, NYS AGM, Cornell University, NRCS	On Track	<b>2022 Update:</b> USC coordinated and planned another series of Watershed Wednesdays in October and November with the assistance of OCCA held 8 sessions. All USC teams developed content and participated in outreach events held throughout the watershed geared towards ag producers and interested landowners. The

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		<p>and NRCS workshops as well as two years of multi-day trainings, including: Conservation Skills Workshop, Certified Crop Advisor (CCA) Training, and Water Quality Symposium.</p>			<p>USC also completed four quarterly newsletters with project and program opportunities as well as numerous Facebook posts and website updates. USC Staff assisted with coordination of Conservation Skills workshops as well as participated in the annual Water Quality Symposium held in March.</p> <p>The following events also took place during the milestone period:</p> <ul style="list-style-type: none"> <li>• 2022 virtual Water Quality Symposium in March 2022 (~250 SWCD staff and partner participants);</li> <li>• Various Riparian Forest Buffer Trainings;</li> <li>• CNMP Training in April 2022 (75 participants);</li> <li>• AEM Field Training Series in June and July 2022 (5 on-farm locations across the state, with 3 involving SWCD staff working in the Chesapeake Watershed; 55 participants);</li> <li>• Five Climate Resilient Farming virtual workshops to evaluate and expand how the program could further advance CLCPA and water quality goals in June and July 2022 (approx. 250 participants);</li> <li>• Conservation Equipment Training at Empire Farm Days in August 2022 (40 participants);</li> <li>• New CAFO SPDES General Permit Webinar in August 2022 (140 participants);</li> <li>• 2022 Conservation Skills Workshop in September 2022 (~200 participants)</li> <li>• Manure Management for Water Quality, GHGs, and Renewable Energy at Conservation</li> </ul>

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					<p>Skills Workshop in September 2022 (47 participants);</p> <ul style="list-style-type: none"> <li>• AEM Forest Conservation Class at Conservation Skills Workshop in September 2022 (30 participants);</li> <li>• Practical Principles of Pasture Planning at Conservation Skills Workshop in September 2022 (30 participants);</li> <li>• 590 Field Risk Assessment Skills at Conservation Skills Workshop in September 2022 (44 participants);</li> <li>• Nutrient Management and Soil Health Planning Skills at Conservation Skills Workshop in September 2022 (44 participants);</li> <li>• AEM and Farmland Protection Program webinar in November 2022 (45 participants);</li> <li>• Northeast Region CCA Conference in November and December 2022 (Basic and Advanced Tracks; 150 participants); and</li> <li>• SWCD Managers Meeting in December 2022 (120 participants).</li> </ul>
12/31/2023	Compliance and enforcement of CAFO permits (P.33)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	Milestone Met	<b>2022 Update:</b> During 2022, eight CAFO inspections were completed in the watershed. DEC issued one response to public complaints and no notice of violations.
12/31/2023	Pursue additional funding sources for agricultural	USC coordinator(s) and team leader(s) along with SWCD will review and submit grant applications to	USC, NYS DEC	On Track	<b>2022 Update:</b> USC actively pursued and submitted several grant applications in 2022 to support USC member programming, project planning and implementation in all focus areas

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	implementation (P.85-86)	appropriate funding sources to further the USC mission in our focus areas, implementation efforts for the CB program and staff support. Funding opportunities may include but not limited to NFWF, RCPP, and state funding sources.			<p>(ag, streams, wetlands and buffers).</p> <p>The USC was part of a NFWF Climate Smart Commodity Program for the CB Watershed, unfortunately, the \$9 million proposal was not awarded. The USC submitted a request for funds (\$1.58 million) to Congressional Representatives to support CB TMDL BMPs. The request was approved in December of 2022.</p> <p>The USC applied for and received an extension and increase the award to the NRCS CTA Engineering Agreement, which supports engineering workload in the watershed.</p> <p>The USC submitted and awarded Arbor Day Foundation funding for 2023 and applied to and received funding for One Tree Planted to assist with volunteer plantings and outreach.</p> <p>The USC submitted proposals to the NFWF SWG funding pool and was awarded \$500,000 to develop afforestation planning and implementation in the watershed.</p> <p>The USC submitted an NFWF INSR proposal for \$1 million, but have not received work of funding approval.</p> <p>The USC submitted a grant to SRBC Flood Mitigation program for Chenango Greenway project and was awarded (details provided below).</p> <p>The USC Completed a scope of work with NYSDEC for continuation of the State Buffer Program funding program.</p>
10/31/2023	Increased incentives for producers, expand	In 2021, NYSDEC allocated an additional \$110,000 to the original	NYS DEC, NYS	Completed	<b>2022 Update:</b> This project ended 10/2022 with all funds utilized. The State Practice Incentive



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	assistance for maintenance of riparian buffers (P. 71-72) through the “Comprehensive Riparian Buffer Establishment in the Susquehanna River Basin” program.	\$500,000 of CBIG funding as a continuation of the CREP state incentive program that began as part of the USDA-FSA Chesapeake Bay Riparian Forest Buffer Initiative. Funding will continue the CREP state incentive for riparian forest buffers. Additional funding has also been allocated for CREP re-enrollment activities, assessment and planning of new riparian buffer sites, evaluation and maintenance of existing buffer sites, and piloting a new non-CREP incentive program for focused on implementation of riparian buffers on cropland acres. BMPs implemented in the watershed through this program will be reported on an annual basis.	AGM, USC		Payment was issued on 128.54 acres. 83.91 acres of CREP was managed for re-enrollment eligibility. The buffer steward program was supported in 4 counties, performing plant survival surveys on 1,217.07 acres, and performing establishment activities on 1,107.22 acres. Nine implementation projects were funded that resulted in 92.8 acres of riparian forest buffer and 189.14 acres of prescribed grazing. Lastly, throughout this program period, 92 projects were planned.
12/31/2023	Soil health implementation and outreach (P.70)	This is an ongoing effort to promote the widespread use of soil health practices and demonstrate effective outreach programs for delivering technical assistance to small dairies implementing whole farm strategies to reduce nutrient and sediment loss. BMPs implemented in the watershed as a result this program will be reported on an annual basis.	USC	On track	<b>2022 Update:</b> The USC continues to support cover crops, nutrient management, and tillage practices through the future use of the Online Tracking App that will be developed, as well as pursuing additional funding for implementation. USC is supporting soil health workshops being planned for winter 2023 by Tioga County SWCD and Cornell Cooperative Extension. Practices implemented thru this initiative are tracked and reported by SWCD member counties.

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12/31/2023	NFWF Chesapeake Bay Stewardship Grant: Expanding Nutrient Management Across All Landscapes in the Headwaters for the Chesapeake Bay (NY,PA) (P.71-72)	<p>In 2021, the USC was awarded \$500,000 for support of nutrient management planning and implementation in both Ag and piloting work in the Urban sector. The bulk of the grant will be focused on implementing nutrient management plans on agricultural lands.</p> <p>The USC is looking at setting aside \$50,000 for urban nutrient management planning and planning to partner with Binghamton University and Regional Planning Boards on the program development.</p>	USC	On track	<p><b>2022 Update:</b> Through this funding the USC contracted with six counties for a total of 66 nutrient management plans on farms totaling approximately 14,390 acres. These plans and others will be completed by fall 2023. The USC will hold another funding request period in early January to continue expanding the planning efforts. Along with on farm nutrient management plans, the USC has worked closely with NYS DEC to develop an Urban Nutrient Management Planning Guidance Document for NYS, and multiple outreach tools for the urban sector.</p> <p>As part of the planning contracts, the USC also contracted for the cost share of 1,581 soil tests and 88 manure analysis to support the planning efforts on those 66 operations. To date, 597 soil samples have been completed on 19 farms, totaling 5,530 acres.</p>
12/31/2023	Expanding Partnerships and Building Capacity in the Chemung River Basin (P.70)	In 2021, the USC was awarded \$50,000 to support the Friends of the Chemung River to complete a strategic plan that allows them to expand their focus to the protection of the watershed.	USC	Completed	<p><b>2022 Update:</b> USC Watershed Coordinator secured funding to support the strategic planning process for the Friends of the Chemung River, the process was completed in 2022. They are looking to enhance water quality restoration efforts in the Chemung River Watershed and plan to stay engaged with the USC.</p>

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12/31/2023	Regional Conservation and Partnership Program (P. 68)	Renewed in 2021, the USC was awarded funding to focus on implementing best management practices that address un-met needs in the watershed related to the TMDL load allocations and assist with re-occurring flooding issues.	USC	Off track	<p><b>2022 Update:</b> The USC has spent the entirety of 2022 working with NRCS State Office Staff to complete the “Supplemental Agreement” necessary to begin implementation through the RCPP program. This has been extremely challenging with the lack of understanding of the program and new program requirements at the state level. At this time, the Supplemental Agreement that would cover years 2022 and 2023 is still in the review phase. The USC is hopeful that this will be approved in early January 2023 and can announce the first funding round through this renewal and begin the implementation process.</p>
5/31/2022	USFS FY 20 Buffer Technician Support (P.77)	Expand technical assistance capacity to support riparian buffer implementation in the Upper Susquehanna watershed within NY and PA. Through this funding, the USC will focus planning and implementation efforts within areas with identified workload. Technical assistance will focus on accelerating the rate that riparian buffer implementation plans are developed and implemented.	USC	Completed	<p><b>2022 Update:</b> This grant ended in May 2022 after supporting the buffer coordinator and technician. The Upper Susquehanna Coalition has exceeded deliverables agreed upon for this funding. Technical capacity was greatly increased throughout the USC Watershed as the USC entered into a contract with Cortland County Soil and Water Conservation District to hire a buffer technician to work out of that office and two other USC Buffer technicians were supported within the USC Buffer Team. These technicians furthered all aspects of the USC’s comprehensive buffer program.</p> <p>The buffer technicians developed planting plans for Trees for Tributaries projects and CREP re-enrollment projects. Furthermore, technicians worked on developing scenarios for farms and landowners identified through aerial imagery as opportunity areas for riparian forest restoration and have begun to reach out to engage with</p>

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					potential landowners. Buffer technicians supported the USC Buffer Steward Program by leading buffer steward workdays and organizing all steward reporting information.
9/30/2022	USFS F21 Technical Capacity Support for Buffer Work (P.71-72)	<p>Assist in the hire of riparian forest buffer technicians to increase technical capacity in the Upper Susquehanna watershed within NY and PA. Through this funding, the USC will work to maintain a focus on planning and implementation efforts regarding riparian buffer implementation within areas with identified workload.</p> <p>Technical assistance will address an existing workload as well as drive landowner/operator interest in riparian restoration. Riparian restoration implementation will be accelerated through multiple funding sources. Supporting technical capacity within districts will result in the equivalent of a new full time buffer technician hire, increasing technical capacity available to address riparian restoration needs.</p>	USC	On Track	<p><b>2022 Update:</b> Funding has been utilized to support increasing technical assistance related to riparian buffers in the watershed. Through this funding, staff has been supported to develop planting plans and then oversee installation of these designs. The USC developed a buffer stewardship tracking system to keep an updated list of projects stewarded. The USC held a virtual training for riparian buffer stewards, followed by 6 in field steward workdays to generate camaraderie.</p> <p>Stewardship within Cortland County was supported through this funding source as well. In the spring of 2022, four CREP re-enrollment projects were planted to meet eligibility, and in fall, three more projects were planted as new CREP enrollments.</p> <p>In 2022, the USC has started to once again host the Riparian Forest Buffer Task Force group to collaborate across the watershed and across agencies for RFB implementation. The USC will continue to host virtual USC Buffer Committee meetings when needed. Articles, mostly promoting the Trees for Tributaries Program have been distributed through social media and local newspapers.</p>
12/31/2021	Arbor Day Foundation Landscape Reforestation for WQ	The USC will utilize this funding to purchase tree and shrub stock that is in small containers. The USC typically	USC	On track	<b>2022 Update:</b> 30,000 plants were planted through the Arbor Day Foundation grant, all of which were planted within riparian areas. This

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	(P.85-86)	only uses bare root stock for restoration plantings. Using this funding, the USC will purchase larger stock, tublings or smaller containers, so as to increase plant survival within plantings. These plants will be utilized in USC RFB Projects, through our stewardship program and others. Tree and shrub planting will occur on rural land, on farms and nonfarms. This project will result in at least 60 acres of riparian restoration, 20,000 trees and shrubs to be planted within the project area.			resulted in approximately 140 acres of riparian forest buffer implemented.
<b>Developed Sector</b>					
12/31/2023	NYS funding for non-agricultural nonpoint implementation through the Water Quality Improvement Project (WQIP) Program (P.130)	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for Round 18 of the Water Quality Improvement Project will be reported during the next reporting period.
12/31/2023	NYS funding for non-agricultural nonpoint project planning and design through the Nonpoint Source Planning Grant (NPG) (P.130)	Implement two rounds of the Nonpoint Source Planning Grant (NPG) program. This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for Non-Agricultural Nonpoint Source Planning Grant will be reported during the next reporting period.
12/31/2023	NYS funding for green	Implement two rounds of the Green	NYS DEC/EFC		<b>2022 Update:</b> NYS Environmental Facilities

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	infrastructure projects to reduce stormwater impacts through the Green Infrastructure Grant Program (GIGP) (P.129)	Infrastructure Grant Program (GIGP). This program is funded through New York’s Environmental Protection Fund (EPF).		On track	Corporation (EFC) released one round of GIGP during November 2022. There were no projects awarded within the Chesapeake Bay watershed.
12/31/2022	Expand reporting of Urban Nutrient Management Plans in the Watershed (P.120)	Using CBIG funding, NYSDEC will work with Tetrtech to develop a template for creating urban nutrient management plans. The funding includes piloting two urban nutrient management plans in the watershed.	NYS DEC	On track	<b>2022 Update:</b> Tetrtech has worked with DEC, USC, and Cornell University to develop guidance and outreach and educational material on implementing urban nutrient management. During the next reporting period, two projects will be implemented, and the guidance will be updated based on results.
12/31/2023	Compliance and enforcement of MS4 communities, industrial stormwater and construction sites through New York Phase II Stormwater Program (P.110)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	On track	<b>2022 Update:</b> DEC conducted 3 inspections at MS4s and 14 inspections at construction stormwater sites in the watershed. DEC conducted x compliance assurance meetings and responded to X complaints for construction stormwater sites. DEC issued X notice of violations for construction stormwater sites and one notice of violation for MS4 in 2022.
12/31/2020	MS4 general permit update (P.135)	DEC will work with EPA through the established coordination process before the draft MS4 permit is released for public comment to ensure consistency with New York’s Watershed Implementation Plan. It is expected that the MS4 permit will be released for public comment in early	NYS DEC	On track	<b>2022 Update:</b> The draft permit is still under internal DEC review.

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		2023.			
<b>Wastewater Sector</b>					
12/31/2023	Modify Significant facility permits (P.91-92, 99)	NYSDEC will initiate permit modifications for 32 Significant facilities to include 2025 wasteload allocations and concentration limits. Permits that are up for renewal have been or are in the process of being modified with 2025 wasteload allocations. The remaining permits will be modified together as a mass modification during the milestone period. During the last milestone period, nine permits were modified. The number of permits modified will be reported on an annual basis.	NYS DEC	On track	<p><b>2022 Update:</b> During 2022, 5 permit modifications for significant facilities were completed. Facilities include:</p> <ul style="list-style-type: none"> <li>• City of Corning WWTP</li> <li>• Kerry Bioscience</li> <li>• Leprino Foods</li> <li>• Village of Sherburne WWTP</li> <li>• Village of Painted Post STP</li> </ul> <p>There are 13 significant facility permits remaining to be modified.</p>
12/31/2023	Continue to use EPA’s Integrated Compliance Information System (ICIS) (P.103)	Continue to use the ICIS data management system to submit individual SPDES permit data as appropriate.	NYS DEC	On track	<p><b>2022 Update:</b> During calendar year 2022, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p>
12/31/2023	Compliance and enforcement of wastewater permits (P.87-88)	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYS DEC	On track	<p><b>2022 Update:</b> During the reporting period, 43 unique facilities were inspected in the watershed with 61 inspection visits. Of the 43, 9 were in significant noncompliance. Seven facilities in the watershed had enforcement actions taken. Twelve complaint responses were responded to during the reporting period.</p>

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
12/31/2023	NYS funding for wastewater treatment improvement through the Water Quality Improvement Project (WQIP) Program (P.106)	Implement two rounds of the NYS Water Quality Improvement Project (WQIP) Program. This program is funded through New York’s Environmental Protection Fund (EPF).	NYS DEC	On track	<b>2022 Update:</b> Applications for the 2022 progress period are under review during the time of reporting. The projects awarded in the Chesapeake Bay Watershed for Round 18 of the Water Quality Improvement Project will be reported during the next reporting period.
12/31/2023	NYS funding for wastewater treatment improvement project planning and design through the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG) (P.106)	Implement two rounds of the DEC/EFC Wastewater Infrastructure Engineering Planning Grant (EPG).	NYS DEC/EFC	On track	<p><b>2022 Update:</b> NYS Environmental Facilities Corporation (EFC) released one round of EPG during November 2022. The following planning grants were awarded in the Chesapeake Bay watershed:</p> <ul style="list-style-type: none"> <li>• Flow Management Plan Implementation (Phase 2) for the Village of Endicott (\$100,000)</li> <li>• Combined Sewer Overflow Reduction Green Infrastructure Pilot Study for Chemung County Sewer Districts (\$50,000)</li> <li>• Mt. Zoar Area Sanitary Sewer Study for Town of Southport (\$24,000)</li> <li>• Wastewater Treatment and Collection System Study for Village or Richfield Springs (\$100,000)</li> <li>• Sewer System Improvement Study for Village of South Corning (\$30,000)</li> <li>• Biosolids Management and Water Pollution Control Plant 1 Outfall Sewer Study for Town of Owego (\$50,000)</li> </ul>
12/31/2023	Track upgrades for	Track upgrades for enhanced nutrient	NYS DEC/EFC	On track	<b>2022 Update:</b> The following facilities are



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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
	facilities (P.98, 106)	removal for significant and non-significant facilities through existing wastewater grant programs.			<p>currently under contract for engineering or implementation of nutrient upgrades or facility improvements:</p> <p>Engineering Planning Grants:</p> <ul style="list-style-type: none"> <li>• City of Binghamton First Ward Inflow and Infiltration Study (\$50,000)</li> </ul> <p>Water Quality Improvement Project:</p> <ul style="list-style-type: none"> <li>• Chenango Northgate WWTP (\$1,000,000)</li> <li>• Owego (T) SD#1 WPCP (\$2,148,000)</li> <li>• Bath WWTP (\$1,000,000)</li> <li>• Cooperstown WWTP (\$1,000,000)</li> <li>• Village of Endicott WWTP (\$602,320)</li> <li>• Chemung County Sewer Districts (\$10,000,000)</li> <li>• Village of Sidney WWTP (\$2,038,750)</li> <li>• Town of Bath Sewer Collection System (\$3,798,175)</li> </ul> <p>Homes and Community Renewal – Community Development Block Grant:</p> <ul style="list-style-type: none"> <li>• South Corning (V) (\$1,000,000)</li> <li>• Jasper (T) WWTP non-significant (\$832,850)</li> </ul>
12/31/2023	Track trading amount individual SPDES (P.100)	Track nutrient trades among Significant wastewater facilities and modify permits accordingly.	NYS DEC	On track	<b>2022 Update:</b> No nutrient trades were done among significant facilities during the milestone period.

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
12/31/2023	Wastewater Growth Analysis (P.107)	DEC conducts an analysis to determine if changes in flow are due to measurable growth or due to wet weather and impacts of I&I. If flow changes are due to growth, New York will implement actions to offset the load associated with growth. Flow increases due to wet weather as a result of excessive I&I will be addressed through I&I studies and remediation. This analysis will be completed for 2022-2023.	NYS DEC	On track	<b>2022 Update:</b> Analysis results will be provided during the next reporting period.
12/31/2023	Wastewater Growth Analysis (P.107)	Based on the 2021 Wastewater Growth Analysis, prioritize follow up on for the following facilities: - (V) Sherburne STP – Address potential I&I issues - (V) Greene WWTP - Address potential I&I issues - Chobani Inc. – review for continued growth during 2022-2023.	NYS DEC	On track	The two-year wastewater growth analysis will be prepared for the 2023 progress period.
12/31/2023	Binghamton-Johnston City wastewater treatment plant Compliance (P.101)	DEC will continue to provide the most up to date information on the Binghamton-Johnson City WWTP permit and consent order.	NYS DEC	On track	<b>2022 Update:</b> BJC completed the reconstruction project during the 2020 reporting period. DEC issued a final permit for the facility in July 2020. Since then, the facility experienced an additional failure in February 2022. As a result, the facility exceeded nitrogen concentration limits for 6 months during the reporting period. The facility is currently meeting both nitrogen and phosphorus concentration limits.

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
<b>Other Sectors/Climate Change</b>					
12/31/2023	NFWF Chesapeake Bay Stewardship Grant: Watershed Approach to Stream Corridor Restoration in the Headwaters for the Chesapeake Bay (NY, PA) (P.71)	In 2021, the USC was awarded \$500,000 to focus on stream corridor restoration efforts in I-4 Watersheds and fund a two person USC stream assessment team to conduct three additional watershed assessments and help SWCD's that participated in I-4 work on prioritizing projects, designing, and securing funding for implementation.	USC	On Track	<p><b>2022 Update:</b> During this time period the USC coordinated with member Soil and Water Conservation Districts to solicit projects, contracted with several districts for their projects, completed two projects and started outreach activities. The completed project provides BMP deliverables such as stream corridor restoration, buffer, and upland planting. The USC coordinated with two entities to work in DEIJ communities focusing on outreach regarding the rivers that flow within their communities. Additional projects and outreach are lined up for 2023 that will help to reach the grant deliverables.</p> <p>Watershed assessments within the Cohocton watershed have started in 2022 as well.</p>
12/31/2023	Expanding Wetland Work in the Upper Susquehanna River Watershed  (This project is supported by a NYSDEC WQIP Grant) (P.53)	Through this project, the USC Wetland Team and partners will strive to increase private landowner participation in wetland restoration through education and outreach along with the physical restoration of wetlands throughout the Upper Susquehanna River Watershed. Deliverables include restoring 36 acres of wetland and enrolling 20 acres of wetlands in partner programs.	USC	On Track	<p><b>2022 Update:</b> 2022 progress towards this project included the restoration, enhancement, or the partnership in implementation of 13 projects, bringing total project acreage to 34.19 acres, and total partner site acreage to 19.08 acres. Those restoration projects coupled with efforts to increase partnerships and prioritize wetland implementation have resulted in many more wetland site opportunities added to the list growing list of potential sites.</p> <p>In 2022, the USC collaborated with partners to identify hurdles to wetland restoration in the watershed, and ways to increase buy in, restoration rate, and partner involvement in seeing expanded wetland projects in the region. With funding remaining in the grant, the USC</p>

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
					requested a project extension, and plan to wrap up activities towards this project with additional restoration and enhancement in 2023.
12/31/2023	SRBC Mud Creek Wetland and Buffer Restoration Project (P.53)	In 2021, the USC was awarded a grant for \$316,000 to purchase a property in the Mud Creek watershed and restore over 26 acres of wetland and riparian forest area.	USC	On Track	<b>2022 Update:</b> In 2022, the USC finalized property acquisition of the 105.158 – acre Mud Creek Property as part of this project, and began the site design, evaluation and permitting process. The USC expect a 3.5-acre portion of the wetland and buffer area to be planted in spring of 2023, with permitting to be finalized in spring in preparation for the hydrologic restoration portion of the project.
<b>New Milestone</b> 7/31/2025	SRBC Chenango River Partnership Project – Wetland, Stream and Buffer Restoration Project (P.53)	In 2022, the USC was awarded a grant for \$358,560 to restore a severely eroding section of Chenango Riverbank, to restore and enhance 17.5 acres of wetland, and to restore 5.5 acres of Riparian Forest Buffer.	USC	On Track	<b>2022 Update:</b> Upon receipt of this funding, the USC and partners worked to begin planning and implementing restoration activities, with efforts towards site design, permitting development, planting plan development, and even the implementation of six acres of wetland and riparian buffer planting, all within five months of receiving the award. In 2023, the USC expects to receive stream permitting, and proceed with big package development, and wetland and stream restoration at the site.
12/31/2023	Updating Forest Harvesting Acres (P.141-142)	DEC will work with Chesapeake Bay Program to update harvested forest acres in the model using state-specific data.	NYS DEC	On track	<b>2022 Update:</b> DEC Division of Water has been working with Division of Lands and Forest to understand what, if any, state-wide timber harvesting data is available.
12/31/2023	Climate Change Allocation (P.145)	DEC has submitted an updated BMP input deck to account for the additional allocation of 0.399 million lbs. of nitrogen and 0.044 million lbs.	NYS DEC	On track	<b>2022 Update:</b> NY is continuing to implement BMPs towards the Phase III WIP and Climate Change additional loads. Report detailing how New York expects to achieve the reductions to

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Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Status	Comments/Status Updates
		of phosphorus.			offset the additional loads from climate change is available on the DEC Chesapeake Bay Website. <sup>2</sup>
12/31/2023	2035 Climate Change Conditions (P.145)	Preliminary estimates for the climate impact through 2035 indicate a doubling of the 2025 load effect. The effect of climate change on our ability to meet the Bay’s water quality standards is a significant and increasing concern.	NYS DEC	On track	<b>2022 Update:</b> NY is continuing to implement BMPs towards the Phase III WIP and Climate Change additional loads. Within the watershed there are 39 Climate Smart Communities registered. Nine of the communities are bronze certified. The program offers free technical assistance, grants, and rebates for electric vehicles. <sup>3</sup>

<sup>2</sup> Climate Change Milestones and Input Deck [https://www.dec.ny.gov/docs/water\\_pdf/cbclimatemilestones.pdf](https://www.dec.ny.gov/docs/water_pdf/cbclimatemilestones.pdf)

<sup>3</sup> Climate Smart Communities <https://climatesmart.ny.gov/>

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Numeric Milestones<sup>4</sup>

Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Milestone	Milestone Program/Funding Sources
Nutrient Management Core N & P	Annual	Acres	110,499 (100%)	109,811	123,623	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Cornell Dairy Acceleration Program (DAP)</li> <li>• CAFO Compliance</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Nutrient Management Rate, Timing, Placement N & P	Annual	Acres	97,548 (91%)	106,811	121,623	
Cover Crops	Annual	Acres	16,196 (66%)	24,327	33,654	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• USC Cover Crop Implementation Program</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Forest Buffers on Fenced Pasture Corridor	Cumulative	Acres	2,122 (73%)	2,900	3,061	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Comprehensive Riparian Buffer Establishment in the Susquehanna River Basin Program</li> <li>• Susquehanna Watershed Riparian Buffer Enhancement Project</li> <li>• Expanding Engagement in the Upper Susquehanna Coalition Buffer Program</li> </ul>
Forest Buffers	Cumulative	Acres	790 (48%)	1,650	1,769	
Soil and Water Conservation Plan	Cumulative	Acres	197,380 (79%)	250,000	262,794	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Livestock Waste Management Systems	Cumulative	Animal Units	92,330 (90%)	102,372	117,544	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• CAFO Compliance</li> </ul>
Dairy Precision Feeding	Annual	Animal Units	15,588 (75%)	19,920	25,840	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Cornell Dairy Acceleration Program (DAP)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>

<sup>4</sup> Numeric milestones are based on New York’s most recent BMP input deck, which was updated to include additional offsets for the climate change allocation

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Milestone	Milestone Program/Funding Sources
Urban Nutrient Management Plans	Annual	Acres	n/a	500	1,000	<ul style="list-style-type: none"> <li>NFWF Chesapeake Bay Stewardship Grant: Expanding Nutrient Management Across All Landscapes in the Headwaters for the Chesapeake Bay</li> <li>DEC Urban Nutrient Management Pilot Project</li> </ul>
Conservation Tillage	Annual	Acres	26,163 (100%)	10,495	20,990	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Pasture Alternative Watering	Cumulative	Acres	1,702 (100%)	1,560	3,120	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Horse Pasture Management	Cumulative	Acres	747 (100%)	17	34	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>CAFO Compliance</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Wetland Creation	Cumulative	Acres	65 (100%)	64	128	<ul style="list-style-type: none"> <li>WQIP Expanding Wetland Work in the Upper Susquehanna River Watershed</li> <li>Climate Resilient Farming (CRF)</li> <li>SRBC Mud Creek Wetland and Buffer Restoration Project</li> </ul>
Wetland Rehabilitation	Cumulative	Acres	509 (100%)	509	1,018	<ul style="list-style-type: none"> <li>WQIP Expanding Wetland Work in the Upper Susquehanna River Watershed</li> <li>Climate Resilient Farming (CRF)</li> <li>SRBC Mud Creek Wetland and Buffer Restoration Project</li> </ul>
Land Retirement	Cumulative	Acres	3,566 (100%)	1,769	3,538	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Alternative Crops	Cumulative	Acres	717 (100%)	517	1,034	<ul style="list-style-type: none"> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Tree Planting	Cumulative	Acres	29 (14%)	205	410	<ul style="list-style-type: none"> <li>Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>Climate Resilient Farming (CRF)</li> <li>Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>

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2022-2023 Programmatic and Numeric Milestones – 2022 Interim Progress Report

Best Management Practices	BMP Type	Unit	2022 Progress	2022 Milestone	2023 Milestone	Milestone Program/Funding Sources
Manure Incorporation	Annual	Acres	20,832 (93%)	22,479	44,958	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Stream Restoration	Cumulative	Feet	45,838 (100%)	22,450	44,900	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>
Barnyard Runoff Control + Loafing Lot Management	Cumulative	Acres	93 (77%)	122	244	<ul style="list-style-type: none"> <li>• Agricultural Nonpoint Source Abatement and Control Program (AgNPS)</li> <li>• Climate Resilient Farming (CRF)</li> <li>• Enhanced BMP reporting (2020 WIP Assistance)</li> </ul>