

New York Chesapeake Bay Restore Clean Water Action Items  
 Final 2018-2019 Programmatic Milestones  
 Submitted 1/16/2018; Revised 5/14/2020

Target Date	Milestone (WIP page reference) <sup>1</sup>	Deliverable	Lead Agency	Comments/Status Updates																								
<b>Agriculture</b>																												
12/31/2019	NYS funding for agricultural conservation (p. 54)	Implement two rounds of the NYS Agricultural Nonpoint Source Abatement and Control Program (AgNPS) for practice implementation and two years of the AEM Base Program, supporting technical assistance by Soil & Water Conservation Districts through the AEM Tiers:  Tier 1: Resource Inventory  Tier 2: Environmental Assessment  Tier 3: Conservation Planning  Tier 4: BMP System Implementation  Tier 5: Evaluation of Implemented Practices or Plan Update	NYSDAM, USC	This milestone report is a snapshot based on proposals funded in AgNPS Rounds 24 and 25 (1/1/2018-12/31/2019) and work through the AEM Tiers completed by SWCDs in the USC area using funding from AEM Base Program Years 13 and 14. Except when specifically noted, all data represent accomplishments within the Chesapeake Bay Watershed HUC12s. This work is in addition to prior accomplishments reported. <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>AgNPS</th> <th>R24</th> <th>R25</th> </tr> </thead> <tbody> <tr> <td>Proposals Funded</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> </tr> <tr> <td>Districts</td> <td style="text-align: center;">4</td> <td style="text-align: center;">6</td> </tr> <tr> <td>Farms</td> <td style="text-align: center;">12</td> <td style="text-align: center;">13</td> </tr> <tr> <td>BMP Systems Being Installed</td> <td style="text-align: center;">21 Systems (68 BMPs)</td> <td style="text-align: center;">23 Systems (111 BMPs)</td> </tr> <tr> <td>AgNPS Share</td> <td style="text-align: center;">\$1.78M</td> <td style="text-align: center;">\$2.95M</td> </tr> <tr> <td>Farmer Share</td> <td style="text-align: center;">\$0.78M</td> <td style="text-align: center;">\$0.79M</td> </tr> <tr> <td>Total \$</td> <td style="text-align: center;">\$2.56M</td> <td style="text-align: center;">\$3.74M</td> </tr> </tbody> </table>	AgNPS	R24	R25	Proposals Funded	6	7	Districts	4	6	Farms	12	13	BMP Systems Being Installed	21 Systems (68 BMPs)	23 Systems (111 BMPs)	AgNPS Share	\$1.78M	\$2.95M	Farmer Share	\$0.78M	\$0.79M	Total \$	\$2.56M	\$3.74M
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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 II WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.

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				AEM Base	Year 13	Year 14
				Districts	15	16
				Tier 1	60	82
				Tier 2	49	54
				Tier 3A	20	35
				Tier 3B	5	6
				Tier 4	86	67
				Tier 5A	32	33
				Tier 5B	82	75
				Total \$ of Tech. Assist. by SWCDs	\$0.99M*	\$1.27M*
				*includes AEM Base Tech Assistance dollars provided for entire county, not solely those HUC12s in the Chesapeake Bay Watershed.		
12/31/2019	Dairy Acceleration Program (DAP is a New York State funding program supported by the state Environmental Protection Fund)	Implement two rounds of DAP to cost-share farm business planning and CNMP development/updates for dairy farms with fewer than 300 cows and develop a new DAP contract to keep the program going through 2023.	Cornell, NYSDEC, NYSDAM	<p>2019 Update: Contract finalized between DEC and Cornell for \$2,633,884. The contract will expire in March of 2023.</p> <p>During the milestone period, 42 projects were implemented in counties in the watershed. \$80,031 was used to fund 19</p>		

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				<p>CNMP projects and \$87,892 was used to fund 23 engineering projects.</p> <p>2018 Update: NYSDEC and Cornell are currently negotiating a new contract. The contract is expected to be finalized in early 2019.</p>
12/31/2019	Agriculture BMP data collection	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 2018 and 2019 Progress Runs.	USC	<p>2019 Update: Completed; 2019 Agricultural BMP data was collected by 16 SWCD's and inputted into the USC's online database for submittal via the NEIEN Node by the December 2019 deadline.</p> <p>2018 Update: 2018 Agricultural BMP data was collected by 16 SWCD's and inputted into the USC's online database for submittal via the NEIEN Node by the December 2018 deadline.</p>
12/31/2019	CAFO BMP data collection program	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.	NYSDEC, USC	<p>2019 Update: As of September 2019, USC member counties participated in 13 inspections in the watershed in 2019.</p> <p>2018 Update: USC member counties participated in 17 CAFO inspections in the watershed in 2018.</p>

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12/31/2019	BMP verification	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.	USC, NYSDEC, NYSDDAM	<p>2019 Update: The USC completed random sampling of the database for Ag. BMP verification. Random sampling for 2020 progress is underway by USC Ag Coordinator. Stream Restoration was included in the 2020 Random Sampling for BMP Verification. Two stream projects were chosen for BMP Verification for the 2020 progress year. The USC Ag Coordinator developed a stream program BMP Verification document that was distributed to member counties.</p> <p>2018 Update: In August 2018, the USC completed random sampling of the database for Ag. BMP verification. This random sampling was done using the software protocol provided by Tetra Tech. These selections were then sent to each member county, who then conducted the BMP verification on the identified farms and practices consistent with the NYS Nonpoint QAPP. The USC Ag. Coordinator visited four-member counties to assist with BMP verification and perform QA/QC on the USC's verification protocols. The USC Ag. Coordinator conducted seven trainings during the reporting period on BMP database entry and QA/QC on BMP Data Reporting and Verification, in attempt to make sure practices are being verified in a similar process and reported correctly in the BMP database.</p>

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12/31/2019	Implementation partners coordination	Improve coordination and support amongst organizations working in the Chesapeake Bay watershed and people that represent NY in Chesapeake Bay Program committees, workgroups, Goal Implementation Teams, expert panels, etc. This may include meetings, conference calls, support on funding proposals, etc.	NYSDEC, Partners	<p>DEC Chesapeake Bay Watershed Program staff held quarterly coordination calls with DEC Regional staff to discuss CB outputs.</p> <p>DEC participated in USC meetings with other watershed partners occur on a bi-monthly basis.</p> <p>The USC Ag Team has monthly calls and holds quarter committee meetings.</p> <p>NY Riparian Buffer Task Force meets bi-annually. DEC, NRCS, FSA, and other watershed partners participate on the task force.</p> <p>USC Wetland and Stream committee meet quarterly.</p> <p>USC holds a 2-day annual retreat with partner engagement. The retreat was held in January 2018 and January 2019.</p>
12/31/2019	<p>Agricultural Environmental Management (AEM) Outreach and Education (p. 25)</p> <p>(AEM is a New York State planning program that helps farmers meet business objectives while protecting and conserving natural resources)</p>	Deliver outreach programs for farmers and agricultural professionals in the watershed about agricultural environmental management, including Cornell Cooperative Extension, Soil & Water Conservation District, NYSDAM, 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.	USC, NYSDAM, Cornell, NRCS	<p>2019 Update: On 3/12/2019, NYSDAM developed and trained 26 District, NRCS, and Private Sector planners at the 4-Day CNMP Training, a prerequisite for AEM Planner Certification at 2019 Water Quality Symposium.</p> <p>2018 Update: On 4/5/18, NYSDAM presented on the AEM program to 75 municipal planners at the Southern Tier Central Regional Planning and Development Board Conference. On 4/10/18 and 6/19/18, NYSDAM provided webinars on AEM Base</p>

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				Year 14 program and Tier 3A Stream Corridor Planning Component training. On 9/24/18 and 9/25/18 USC Stream Team presented training on Stream Corridor assessment as part of the AEM 3A evaluation program.
12/31/2019	Implementation of USDA-FSA Chesapeake Bay Riparian Forest Buffer Initiative and CREP State Enhancement Program  (The State Enhancement Program is supported by Chesapeake Bay Implementation Grant funding)	As part of the USDA-FSA Chesapeake Bay Riparian Forest Buffer Initiative, NYSDEC has allocated \$200,000 of CBIG funding (CREP State Enhancement Program) for practice incentive payments to landowners that enroll in new riparian forest buffer contracts through CREP. The payments will be 5-15 times the soil rental rate, depending on soil type and width of the buffer to be installed. Higher payments will be made to landowners that enroll cropland acres. New York has a goal of enrolling between 50-100 acres annually.  USDA-FSA will also offer additional signing incentive payments to landowners located in the Chesapeake Bay watershed of \$250-375 per acre, depending on the length of the contract.	NYSDEC, NYS DAM, USC, USDA-FSA	2019 Update: USC requested an extension with NYSDAM to continue to support this initiative as well as increase the incentive payment to 20 times the soil rental rate.  2018 Update: During 2018, the USC continued administration of the Upper Susquehanna River Coalition Conservation Reserve Enhancement Program contract. As of the last progress report (dated 2/18), 62 new acres of riparian buffer were planted and paid the state practice incentive payment.
12/31/2019	Susquehanna Watershed Riparian Buffer Enhancement Project  (This project is supported by the USFS/NRCS Joint Chiefs' Landscape Restoration Partnership)	Provide education to promote riparian forest buffer implementation to landowners, develop and provide buffer workshops and trainings, coordinate buffer workgroups, and track implementation in the watershed.	USC	2019 Update: This funding expires 5/31/2020. Funding continues to support the USC's Riparian Buffer Coordinator. Minimal funding exists for pilot projects. In 2019, the buffer coordinator participated in or coordinated 17 outreach events reaching over 1,400 people. 2019 was the first year the USC piloted the Buffer Steward Program where over 750 acres of riparian forest buffer

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				<p>were evaluated or establishment activities took place.</p> <p>2018 Update: The USC buffer coordinator continues to facilitate a Riparian Forest Buffer Task Force, composed of multiple partners to address implementation obstacles. Over 10 outreach events were coordinated last year, with over 1,500 reached through those events. The coordinator participated in trainings developed for technicians in planning stream corridor practices. The coordinator and staff continue to track implementation, monitoring, and maintenance activities throughout the watershed. In addition, several pilot projects were carried out in 2018, including the purchase of a program trailer to better facilitate implementation of programs for buffers, we also experimented with cocofiber weed mats and shrub tubes to increase the survival of riparian plants.</p>						
12/31/2019	<p>Implementation and Outreach associated with NFWF Chesapeake Bay Stewardship Fund Grant</p> <p>(This project is supported by the NFWF Chesapeake Bay Stewardship Fund)</p>	<p>This project will build on momentum from our Natural Infrastructure Stream Corridor Rehabilitation project to address nutrient and sediment loading from stream corridor and riparian areas in the Upper Susquehanna River Basin in New York State. We propose to expand upon our use of natural infrastructure techniques in the stream corridor and adjacent riparian areas by adding voluntary wetland restoration and floodplain enhancement</p>	USC	<p>2019 Update: Under Round 2 an additional 15 projects were approved and funded with a contract total of \$877,210. \$100,000 was used to purchase an interseeder for use in the watershed. Total project implementation numbers are included in the below table.</p> <table border="1" data-bbox="1436 1304 1980 1414"> <thead> <tr> <th data-bbox="1436 1304 1646 1414"><b>System:</b></th> <th data-bbox="1646 1304 1839 1414"><b>Grant Deliverables</b></th> <th data-bbox="1839 1304 1980 1414"><b>Round 1 &amp; 2 Funded</b></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<b>System:</b>	<b>Grant Deliverables</b>	<b>Round 1 &amp; 2 Funded</b>			
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		work as well as utilize our suite of tools to assist with project prioritization in NY. Our approach will mimic the USC's major focus areas by implementing stream, wetland, and buffer restoration techniques on public and private rural lands in the watershed as well as work with producers to exclude livestock and promote grazing practices that take into consideration riparian areas and their importance. Major outputs in 2017 included implementation of 26.4 acres of riparian buffer, 4,700 feet of streambank stabilization/rehabilitation, 78.1 acres of planned grazing, 11,111 feet of stream exclusion, 6 stream crossings, 8.3 acres of habitat improvement, 11,433 acres of grazing fence, 4,065 feet of waterline and 9 water troughs.		<table border="1"> <tr> <td>Buffer</td> <td>100 acres (75 forest, 25 grass)</td> <td>288.7 acres</td> </tr> <tr> <td>Rotation Grazing System</td> <td>440 acres</td> <td>534.8 acres</td> </tr> <tr> <td>Wetland Restoration</td> <td>12 acres</td> <td>11.74 acres</td> </tr> <tr> <td>Stream Corridor Rehabilitation</td> <td>5,000 feet</td> <td>5,718 feet</td> </tr> </table>	Buffer	100 acres (75 forest, 25 grass)	288.7 acres	Rotation Grazing System	440 acres	534.8 acres	Wetland Restoration	12 acres	11.74 acres	Stream Corridor Rehabilitation	5,000 feet	5,718 feet					
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				<p>2018 Update: Under an existing NFWF Chesapeake Bay Innovative Nutrient &amp; Sediment Reduction grant, 13 projects were approved and moving forward with contract for a total of \$340,517. Project implementation numbers are included in the below table.</p> <table border="1"> <thead> <tr> <th style="text-align: center;"><b>System:</b></th> <th style="text-align: center;"><b>Grant Deliverables</b></th> <th style="text-align: center;"><b>Round 1 Funded</b></th> </tr> </thead> <tbody> <tr> <td>Buffer</td> <td>100 acres (75 forest, 25 grass)</td> <td>55.5 acres</td> </tr> <tr> <td>Rotation Grazing System</td> <td>440 acres</td> <td>333.7 acres</td> </tr> <tr> <td>Wetland Restoration</td> <td>12 acres</td> <td>3.4 acres</td> </tr> <tr> <td>Stream Corridor Rehabilitation</td> <td>5,000 feet</td> <td>2,600 feet</td> </tr> </tbody> </table>			<b>System:</b>	<b>Grant Deliverables</b>	<b>Round 1 Funded</b>	Buffer	100 acres (75 forest, 25 grass)	55.5 acres	Rotation Grazing System	440 acres	333.7 acres	Wetland Restoration	12 acres	3.4 acres	Stream Corridor Rehabilitation	5,000 feet	2,600 feet
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				<p>USC was also able to update BMP database to track implementation of stream projects within NYS. USC Reported stream projects for first time in 2018 and the USC is making plans to improve tracking for SWCD members in 2019 so that we capture all work completed.</p>
1/31/2019	<p>USC Buffer Pilot Program (Comprehensive Conservation Riparian Buffer Approach)</p>	<p>Offer financial compensation and resource assistance (planning, design and plant material) through NFWF CBS funding to increase the implementation and restoration of riparian forest buffers and associated water quality BMPs through conventional, as well as new programs. 2018 deliverables include implementation of 55 acres of riparian buffers and 300 acres of rotation grazing. All Round 2 projects will be completed by October of 2018.</p>	USC	<p>2019 Update: Completed.</p> <p>2018 Update: This funding supported the creation of a USC Buffer Program that funded approximately 98 acres of Riparian Buffer and 480 acres of prescribed grazing to be implemented or applied. Average riparian buffer width of the implemented buffers is over 80 feet. The program provided, on average, 51% match on projects that were also funded by federal and state programs. A buffer team tracking tool was also developed with this funding to better share project information throughout the team; this information is helping with informing management action recommendations aiding in the establishment of riparian forest buffers.</p>
09/30/2018	<p>Assessment and Maintenance of Riparian Forest Buffers in the Chesapeake Bay Watershed</p>	<p>Perform riparian forest buffer site assessments, facilitate maintenance projects and provide outreach relating to riparian forest buffer management</p>	NYSDEC, USC	<p>The USC Buffer Team staff monitored and maintained approximately 35 acres of buffer on 16 projects throughout the watershed. In addition to this work, the USC contracted with Delaware County SWCD and Otsego County SWCD to monitor over 35 buffer</p>

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				<p>projects totaling to over 300 acres and perform maintenance when feasible.</p> <p>This project was complete as of 9/30/18.</p>
12/31/2019	Soil health implementation and outreach	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.	USC	<p>2019 Update: During March 2019, USC participated in the Northeast Organic Farming Association NY Soil Health Conference. USC participated in a soil health training with 50 attendees was held in May 2019.</p> <p>2018 Update: During May 2018, the USC participated in the development of a NY Soil Health Training with partners.</p> <p>During August 2018, USC provided training to approx. 90 farmers, planners, and Ag consultants on nutrient management, soil conservation, and soil health at the Soil Health Seminar Center at Empire Farm Days.</p>
12/31/2019	<p>Integrated Approach to Nutrient Management</p> <p>(This project is supported by the NFWF Chesapeake Bay Stewardship Fund, Innovative Nutrient and Sediment Reduction Grant)</p>	Implement a coordinated, integrated, and comprehensive nutrient management planning process which includes the development of a resource team and the use of nutrient reduction tools for the purposes of increased adoption of Nutrient Management Plans and associated BMPs, and maximizing farm sustainability, profitability and sound resource management. 2018 deliverables include nutrient management planning on 4,397 new acres and updates to nutrient management plans for 7,442 acres.	USC	<p>2019 Update: Integrated Approach to Nutrient Management project was closed. In 2019, USC was awarded funding from NFWF Chesapeake Bay Stewardship Fund of \$200,000 for expanding and engaging new partners and populations in the USC Buffer Program that have yet to be engaged in pilot projects incorporating riparian restoration, livestock exclusion, agricultural land retirement, green infrastructure and natural stream corridor restoration.</p> <p>2018 Update: During 2018, 5 counties participated in the development of Nutrient</p>

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				<p>Management Planning, and Precision Feed Management Planning on 45 farming operations in the watershed. Cover crop implementation occurred on 633.7 acres in association with the nutrient management plans written. In October of 2018, the USC collaborated with the Otsego County SWCD, to hold a Soil Health/Cover Crop day at SUNY Oneonta with keynote speaker Steve Groff (the Cover Crop Coach) from Pennsylvania, speaking on how cover crops improve soil health through nutrient and residue management.</p>
12/31/2018	<p>Upper Susquehanna Coalition I-4 Program  (This project is supported by the NFWF Chesapeake Bay Stewardship Fund)</p>	<p>Work with seven watersheds and their communities to reduce stream channel nutrient and sediment contributions through the survey, identification, design and implementation of practices and projects on 7,000+ feet of stream corridor. In addition, build local capacity through direct education and technical assistance to local governments to help improve stream health and habitat on 2,500 feet of stream channel. In 2018, it is anticipated that all 7 watershed background reports, public meetings to be held in each watershed to select priority sites and 2-5 sites will be selected from each watershed to take to the design stage. Also anticipate completing 3 Emergency Stream Intervention trainings.</p>	USC	<p>USC facilitated the development and conducting of 7 community watershed efforts to increase local capacity at the community and SWCD levels in the counties of Cortland, Otsego, Tompkins and Tioga Counties. The results included: 4,150 stream corridor sites assessed; 37 independent studies; 609 stream crossings assessed utilizing the NAACC protocol; 66 individual receiving technical training; over 300 municipal and landowner constituents being educated; 6,087 feet of stream corridor being restored; 6.5 acres of buffers; 1,653 tons of sediment annually abated; 1,653 lbs. of P and 3,802 lbs. of N annually abated. The USC Stream Team gave one Emergency Stream Intervention Training to the Southern Tier Building Officials Association in December 2018. Project Completed in December 2018.</p>

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12/31/2019	Upper Susquehanna Agricultural BMP Implementation (This program is supported by 2016 RCPP funding from USDA-NRCS)	Hold sign-up for additional EQIP practices using funding from the Regional Conservation Partnership Program. In 2018, plan to hold Round 2 signups for grazing practices. Currently, SWCD staff are working on grazing planning for these sign ups.	USC, NRCS	<p>2019 Update: During 2019, The USC worked through the “Round 2” applications and contract development through partnership with NRCS on 7 farming operation for grazing practices. Practices that were contracted include, but are not limited to Prescribed Grazing, Fencing, Watering Facilities, Spring Developments, Waterlines and Buffers. The design and implementation for these “Round 2” practices will be begin in 2020. Also, during 2019, design work and construction oversight took place on “Round 1” projects and will continue through 2020. Looking forward to 2020, the USC and partners will work through the development of an additional funding round and explore potential opportunities for continued funding through the Regional Conservation Partnership Program.</p> <p>2018 Update: During 2018, the USC was working through the “Round 1” applications and contract development through partnership with NRCS on 5 farming operations for practices such as but not</p>

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				limited to Manure Storage Facilities, Heavy Use Area Protection, Milkhouse Waste Systems and Silage Leachate Systems. "Round 2", which focuses on Grazing Practices, was announced in late 2018 with applications being accepted until January 18, 2019. During 2019, the USC and partners will work through applications, planning, eligibility, and contracting for contract obligation in Fall of 2019.
12/31/2019	USC Cover Crop Implementation Project (funded by CBIG)	Implement 2,000 acres of cover crops per year in Fall 2018 and Fall 2019.		2019 Update: in Fall 2019, a total of 2,635 acres of new cover crops were planted within the watershed.  2018 Update: In Fall 2018, 2,414 acres of cover crops were planted in 8 counties within the watershed.
12/31/2019	Compliance and enforcement of CAFO permits	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	2019 Update: 15 medium inspections and 25 large inspections were completed in 2019.  2018 Update: 18 medium inspections and 16 large inspections were completed in 2018.
12/31/2019	Climate Resilient Farming 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). \$2,000,000 of funding is available in the SFY 2018 budget.	NYSDAM, NYS SWCC	2019 Update: Round 4 of the Climate Resilient Farming Program was announced in March 2019. Within the Chesapeake Bay watershed, Madison, Tioga, and Tompkins were awarded a total of \$383,230 for stream stabilization, grassed waterways, and riparian buffer implementation.  2018 Update: Round 3 of the Climate Resilient Farming Program was announced in

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				April 2018. Within the Chesapeake Bay watershed, Chenango County and Schuyler County were awarded funding to implement cover crops.
12/31/2019	Chesapeake Bay Watershed Grant Program for Riparian Buffer Protection and Restoration: Edward L. Rose Conservancy	Oversee contract for protection and restoration program to establish perpetual conservation easements on 28 acres of riparian buffers in Broome and Tioga counties.	NYSDEC	2019 Update: Edward L. Rose Conservancy continued meeting with land landowners and pursue potential easements.  2018 Update: In 2018, the Edward L. Rose Conservancy conducted easement acquisition planning, including using GIS to identify and select landowners with riparian properties.
12/31/2019	Chesapeake Bay Watershed Grant Program for Riparian Buffer Protection and Restoration: Finger Lakes Land Trust	Oversee contract for protection program to permanently protect 69 acres of existing riparian buffer habitat in the Susquehanna watershed.	NYSDEC	2019 Update: As of October 2019, a total of 17,979 linear feet of forested riparian frontage and 66 acres of existing forested riparian buffer habitat have been permanently protected.  2018 Update: In 2018, the Finger Lakes Land Trust proposed to permanently conserve 18,000 linear feet of riparian forest buffer and 69 acres of existing riparian forest buffer. Since the beginning of the contract, 8,600 linear feet and 30 acres of existing riparian buffer habitat have been restored/protected.
12/31/2019	Evaluate mechanisms to increase nitrogen reductions from agriculture	Evaluate existing agricultural programs and agricultural programs implemented on other Chesapeake Bay jurisdictions for potential implementation opportunities	NYSDEC	2019 Update: Completed.  2018 Update: The Phase III WIP will outline DEC's mechanisms to increase nitrogen reductions in the agricultural sector. Discussion on the Phase III WIP input deck

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				have focused on BMPs with the most nitrogen reduction credit in the Bay model.
<b>Nonpoint Sources (Non-Agriculture)</b>				
12/31/2019	Chesapeake Bay Watershed Grant Program for Riparian Buffer Protection and Restoration: Tioga County Soil and Water Conservation District	Oversee contract for restoration program to restore approximately 80 acres of riparian buffer and 350 linear feet of stream bank along Mud Creek in Birdseye Hollow State Forest (BHSF) and in the Lower Butternut Creek watershed in Otsego County (Gemma Hall).	NYSDEC, USC	<p>2019 Update: As of October 2019, 50 acres of riparian restoration has occurred, 350 feet of streambank restoration was completed, and invasive treatment has been coordinated.</p> <p>2018 Update: USC staff conducted stream bank assessments on 3 miles of bank. The assessment consisted of taking GPS point locations of areas where there were changes in the bank, vegetation or water depth. Area where erosion was observed, data was collected to generate a Bank Erosion Hazard Index value. Additional information such as wildlife activity, and composition of channel bottom were also recorded. Restoration plans for Phase 2 of the BHSF planting were developed during this reporting period. Work has been done to develop next phasing of restoration on the Gemma Hall project.</p>
12/31/2019	Chesapeake Bay Watershed Grant Program for Riparian Buffer Protection and Restoration Round 2	Develop and issue a second request for proposals for competitive funding program to support protection and restoration of riparian buffers. DEC expects to make up to \$1,000,000 of CBIG funding available for the second round of this program.	NYSDEC	DEC is exploring more efficient funding mechanisms to distribute money toward agricultural practices. Several meetings have been held with NYS Ag. and Markets to discuss options. Funding will be directed towards needs were identified in the Phase III WIP. CBIG funding will be directed through other existing contract mechanisms.

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12/31/2019	Wetland restoration (This program is supported by funding through the NYSDEC WQIP Grant)	Continue wetland restoration on public and private lands. Restoration of 5-10 acres of wetland is planned for 2018-19.	USC	2018 Update: To date there have been 74 aquatic wetland habitats constructed in 9 state forests – USC has exceeded target wetland complex acres for a total of have 39.55 out of 36 wetland complex acres originally proposed. In, 2018 USC completed 18.5 wetland complex acres. Contract deliverables met in 2018 and the project is considered complete.
12/31/2019	Flood mitigation (This program is supported by funding through NYSDEC WQIP Grant)	Continue streambank berm removal	NYSDEC	2019 Update: To date a total of 6,640 linear feet of streamside berm has been removed.  2018 Update: In 2018, USC Staff completed 1,091 Linear feet of berm removal on a project in Tioga County. We have 869 Linear Feet remaining to complete under the grant in order to make our deliverables. USC is currently discussing projects in Delaware and Chemung Counties for 2019.
12/31/2019	Urban Stormwater BMP data collection	Collect urban stormwater BMP data in both MS4 regulated communities and non-regulated communities. BMP data collection outside of non-regulated communities will include new urban forestry BMPs. All urban stormwater will be converted to NEIEN-compliant format for the 2018 and 2019 Progress Runs and reported to the Bay Program by the December 1 <sup>st</sup> deadline.	NYSDEC	2019 Update: DEC successfully reported construction stormwater BMPs for 2019 progress run.  2018 Update: DEC successfully reported construction stormwater BMPs for 2018 and previous years during the 2018 progress run.

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12/31/2019	Update Nonpoint Source and Point Source QAPP	Update QAPPs to include new procedures for collecting and verifying urban stormwater BMPs outside of permitted MS4s and procedures for use new MS4 reporting template	NYSDEC	2019 Update: DEC submitted an updated point source and nonpoint source QAPP to EPA on 11/26/19.  2018 Update: DEC submitted an updated point source and nonpoint source QAPP to EPA on 6/29/18.
12/31/2019	Evaluate fertilizer sales data	Continue to evaluate non-farm fertilizer sales data to assess effectiveness of NY's Dishwasher Detergent and Nutrient Runoff Law and to support receipt of the phosphorus reduction credit in the Chesapeake Bay Watershed Model.	NYSDEC, NYSDAM	2019 Update: DEC obtained reporting format from EPA Bay program staff.  2018 Update: DEC expected to set up a meeting in early 2019 with EPA Bay Program staff to discuss the format in which this date should be submitted.
12/31/2019	Compliance and enforcement of MS4 communities, industrial stormwater and construction sites	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	2019 Update: DEC conducted 4 inspections at MS4s and 25 inspections at construction stormwater sites in the watershed. DEC issued 4 notice of violations for construction stormwaters sites in 2018.  2018 Update: DEC conducted 5 inspections at MS4s and 37 inspections at construction stormwater sites in the watershed. DEC issued 5 notice of violations for construction stormwaters sites in 2018.
04/30/2019	MS4 general permit	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.	NYSDEC	2019 Update: The draft permit is still under internal DEC review.  2018 Update: NYSDEC MS4 General permit staff held five stakeholder workgroup meetings from August-Nov. 2018 with MS4

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				representatives around the state. The draft permit is still under internal DEC review.
08/31/2018	Develop local government outreach strategy for Phase III WIP development	Focus on implementation scenarios that can benefit local concerns and raise awareness of Phase III WIP development.	NYSDEC	2019 Update: Complete. 2018 Update: NYSDEC engaged local SWCDs, Regional Planning Boards, and other partners during the Phase III WIP development process. Meetings were held specifically for local planning goal discussion on 10/10, 10/11, and 11/26. EPA Bay Program staff assisted with local planning goal scenarios.
12/31/2019	Outreach to non-regulated urban communities	Outreach to small un-regulated communities to install, inspect, maintain, verify and report urban BMPs installed	NYSDEC	DEC is working with Southern Tier 8 Regional Planning Development Board and Southern Tier Central Regional Planning Development Board through the Clean Water Act 604(b) contracts to assist DEC with reporting and verifying BMPs outside of MS4 areas.
<b>Wastewater</b>				
12/31/2019	Nitrogen bubble permit compliance	Ensure compliance of Bay Significant wastewater treatment plants with the nitrogen bubble permit limits. Compliance with Phase I of the bubble begins in January 2016; compliance with Phase II begins in January 2017; and compliance with Phase III begins in January 2018.	NYSDEC	2019 Update: No exceedance of bubble limit in 2019. 2018 Update: No exceedance of bubble limit in 2018.
12/31/2019	Reconstruction of Binghamton-Johnston City wastewater treatment plant	Oversee compliance with consent order that outlines the schedule of construction and dates for achieving effluent limits.	NYSDEC	2019 Update: DEC Region 7 staff attend regular meetings with representatives of the WWTP and consulting engineers to discuss the status of the reconstruction project.

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				<p>2018 Update: As of January 2019, the projected Phase 1 Substantial Completion has been extended to August 31, 2019. The Phase 2 Substantial Completion has been extended to January 2020. Out of the 13 contracts, 5 are fully completed. The floodwall is currently 97% completed and is anticipated to be completed by the end of January 2019. During 2018, DEC Region 7 staff attended six meetings with representatives of the WWTP and consulting engineers to discuss the status of the reconstruction project.</p>
12/31/2019	Continue to use EPA's Integrated Compliance Information System (ICIS)	Continue to use the ICIS data management system to submit individual SPDES permit data as appropriate.	NYSDEC	<p>2019 Update: During calendar year 2019, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p> <p>2018 Update: During calendar year 2018, DEC entered individual SPDES permit data into the ICIS database as appropriate.</p>
12/31/2019	Compliance and enforcement of wastewater permits	Continue to implement enhanced oversight of facilities in the Susquehanna and Chemung River Basins regulated by NYSDEC SPDES permits.	NYSDEC	<p>2019 Update: During the state fiscal year 2019, DEC conducted 40 inspections on Bay significant facilities and 30 inspections on Bay Non-Significant facilities. Compliance assurance meetings were held with 12 facilities. DEC issued 2 complaint responses and 3 notice of violations.</p> <p>2018 Update: 1/14/2019: During the state fiscal year 2018, DEC conducted 36 inspections on Bay significant facilities and 19 inspections on Bay Non-Significant facilities. Compliance assurance meetings were held</p>

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				with 8 facilities. DEC issued one complaint response at a bay non-significant facility.
12/31/2019	Village of Cooperstown Wastewater Treatment Plant Upgrade	Oversee contract for the upgrade of the wastewater treatment plant to replace aging infrastructure and upgrades necessary to meet 2025 final effluent limits.	NYSDEC	2019 Update: As of December 2019, the upgrade is proceeding on schedule. 2018 Update: As of January 2019, the upgrade is proceeding on schedule.
07/1/2018	City of Corning Wastewater Treatment Plant Phosphorus Treatment	Oversee contract for constructing a bulk chemical storage facility at the City's wastewater treatment plant.	NYSDEC	2019 Update: As of December 2019, the upgrade is proceeding on schedule.
6/30/2019	Town of Woodhull Municipal Wastewater Collection System and Wastewater Treatment Plant Project	Oversee contract for development of municipal wastewater collection system and wastewater treatment plant to serve core area of the town to remove need for private on-site septic systems for sanitary sewer disposal. Approximately 148 service connections will be created. Once a permit has been finalized, DEC will report the anticipated load from the new plant and will report the reduction in load from the private septic connections.	NYSDEC	2019 Update: As of December 2019, the upgrade is proceeding on schedule, facility to start up in Spring 2020.
12/31/2019	Davis House Sanitary Sewer Overflow Mitigation Project	Oversee contract for replacement of sanitary sewer piping and manholes that currently have structural deficiencies resulting in infiltration into the sewer system causing sanitary sewer overflows.	NYSDEC	2019 Update: As of December 2019, the upgrade is proceeding on schedule. Expected Completion in May of 2021.
12/31/2019	Town of Southport Sewer Project	Oversee contract for the sewerage of approximately 381 residences and	NYSDEC	2019 Update: As of January 2020, the upgrade is proceeding on schedule.

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		commercial properties that are currently unsewered in the Town of Southport.		
12/31/2019	Phase III WIP strategy for nitrogen	Evaluate wastewater strategy for nitrogen during Phase III WIP development, including review of existing nitrogen bubble permit	NYSDEC	2018 Update: Complete. 2018 Update: DEC is continuing the evaluation of the wastewater strategy for nitrogen. The strategy will be outlined in the Phase III Watershed Implementation Plan.
<b><i>Habitat and Wildlife Restoration and Protection</i></b>				
12/31/2019	Hellbender restoration	Continue developing a hellbender restoration program in the Chesapeake Bay watershed.	USC, NYSDEC, USFWS, SUNY Buffalo	2019 Update: In 2019, USC wetland team led an outreach event with 75 students at Unadilla Valley Central School.  In 2018, the USC received the Outstanding Conservationist Award from the NYS Wildlife Society for work planning, permitting, building and installing in-stream habitat and monitoring equipment, and hellbender release. The release of hellbenders occurred in August of 2019. The funding for this project was made available by the Wetland Trust and USFWS.  2018 Update: In July 2018, the USC Wetland Biologist presented at the Chenango County Ag. Tour at The Wetland Trust Golf Course Facility about the USC wetland program and eastern hellbender conservation efforts.
12/31/2018	Reestablishing Stream Reconnectivity through	Oversee contract to remove a concrete dam structure, restore stream channel and	NYSDEC, Tioga County SWCD	In 2018, Tioga County SWCD and USC staff worked to complete design, submit permitting paperwork for the project and

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	Spencer Lake and Headwaters	reconnect the headwaters above Spencer Lake with lower stream section.		address comments. Still waiting on permit review and construction has been postponed pending permit issuance.
12/31/2019	Aquatic organism connectivity for road stream crossings (North Atlantic Aquatic Connectivity Collaborative NAACC)	Local municipal training and workshops on culvert/stream crossings and stream BMP development and installation.	USC	The USC conducted two regional trainings and one refresher course on the NAACC protocol. Additionally, the USC utilized a grant from the USFWS to purchase equipment to loan to member counties for the assessment of stream crossings, train municipal officials in stream crossing components. This resulted in: six watershed assessments with 609 stream crossings being assessed; development of an educational module for municipal training that was presented at 2 County trainings, Tioga and Cortland, and one multi county training as part of the Southern Tier Regional Planning Commission Local Leadership Development Conference.