



CHESAPEAKE BAY STEWARDSHIP FUND **2022 ANNUAL REPORT**





Cover: Poplar Island in Talbot County, Maryland
Interior Cover: Jefferson Patterson Park in Calvert County, Maryland

OUR PROJECTS

Working in partnership with government agencies and private corporations, the **Chesapeake Bay Stewardship Fund** awards \$40 million to \$60 million per year through four competitive grant programs—the Innovative Nutrient and Sediment Reduction Grants Program, the Small Watershed Grants Program, the Chesapeake Watershed Investments for Landscape Defense (WILD) Grants Program, and the Pennsylvania Most Effective Basins Grants Program.



These programs benefit the communities, farms, habitats, and wildlife of the Chesapeake Bay region. The Chesapeake Bay Stewardship Fund also makes targeted investments that support networking and information-sharing among restoration partners on emerging technologies, successful restoration approaches, and new partnership opportunities.

From 1999 to 2022, the Chesapeake Bay Stewardship Fund awarded more than 1,350 grants totaling more than \$248 million. These investments

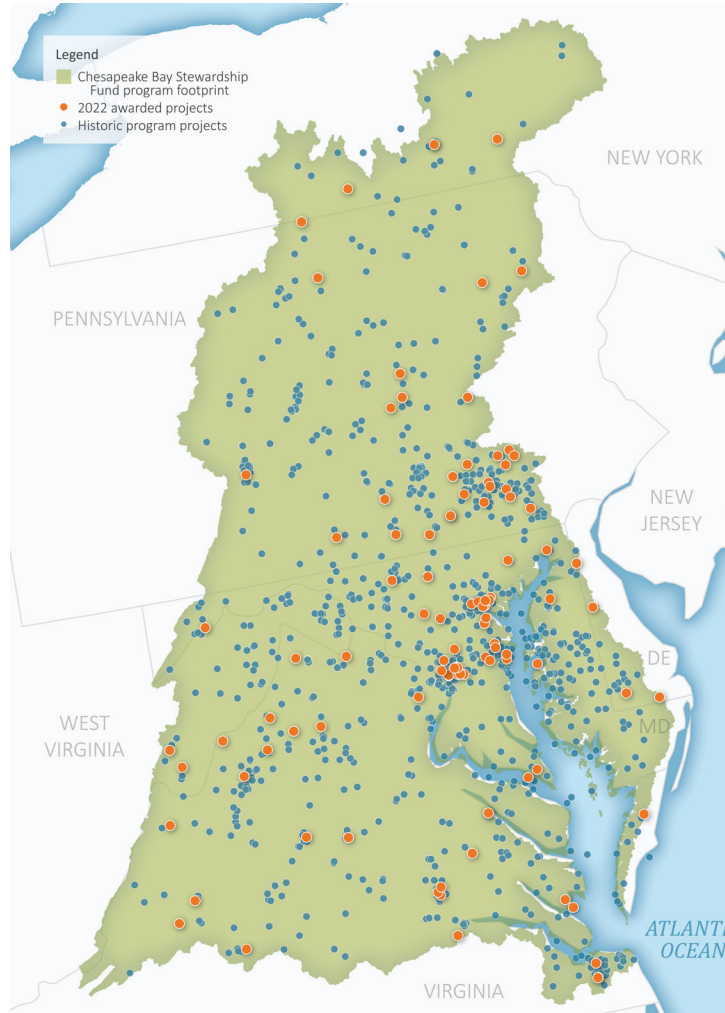
leveraged more than \$351 million in local matching resources to support a wide range of conservation projects throughout the Bay basin.

The 2022 Bipartisan Infrastructure Law and the 2020 Chesapeake Watershed Investments for Landscape Defense (WILD) Law created an additional \$15 million in funding for the Stewardship Fund. These historic investments funded more than 120 grants for conservation efforts in Delaware, Maryland, New York, Pennsylvania, Virginia, and West Virginia, including many multi-state grants.

We'd like to thank all our federal and private partners, and community members for driving restoration and conservation efforts in their local waterways of the Chesapeake Bay.

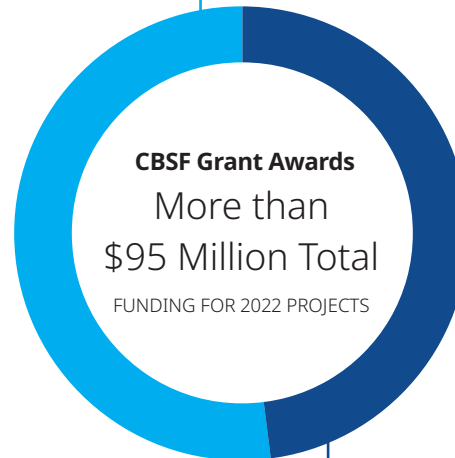
OUR INVESTMENTS

Through partnerships with the U.S. Environmental Protection Agency (EPA), the U.S. Fish and Wildlife Service (USFWS), and the Chesapeake Bay Program (CBP), including other federal agencies and private partners, the Stewardship Fund advances cost-effective and creative restoration solutions.

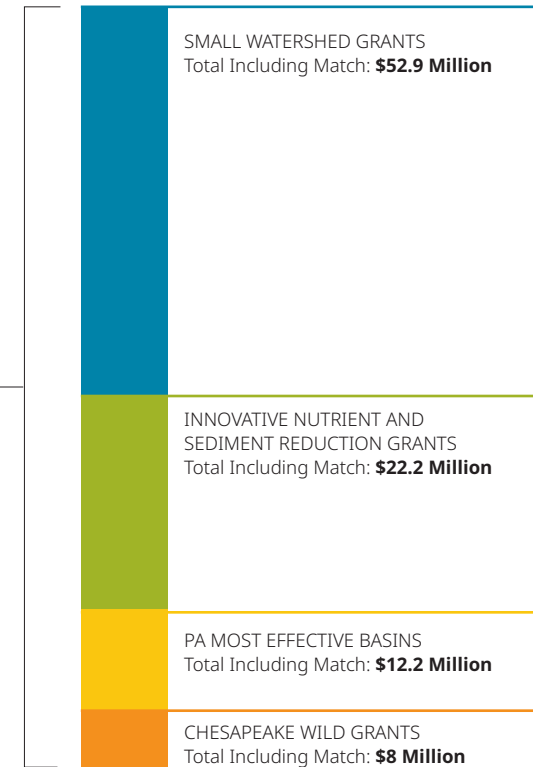


2022 PROJECT FUNDING SNAPSHOT

LOCAL MATCH
\$49.3 Million



STEWARDSHIP FUND GRANT AWARDS
\$46 Million



OUR IMPACT

Through grants awarded in 2022, the Stewardship Fund will achieve significant impacts towards a healthier Chesapeake Bay watershed by working to restore local rivers and streams.

SINCE 1999

28 M
POUNDS

Estimated reduction of annual nitrogen pollution.

5.4 M
POUNDS

Estimated reduction of annual phosphorus.

1.3 M
POUNDS

Estimated reduction of annual sediment.

MORE THAN
3,700
MILES

Streams restored.

7.5 M

Estimated residents reached through outreach efforts.

MORE THAN
581
MILES

Of reconnected rivers and streams for fish passage.

MORE THAN
2,175
MILES

Of installed livestock exclusion stream fencing.

396
ACRES

Of established oyster reefs.

171,291
ACRES

Of established oyster reefs.

14,764
ACRES

Of treated stormwater runoff from impervious surfaces.

MORE THAN
15,987
ACRES

Of restored wetlands.

MORE THAN
2,443
MILES

Of forested riparian buffers.

2022 HIGHLIGHTS

Awarded a record **\$46 million** in grant funding, leveraged by an additional **\$49.3 million** in local matching fund for a total conservation impact of more than **\$95 million**.

Finalized an interim Diversity, Equity, Inclusion, and Justice Plan to ensure CBSF breaks down identified barriers for more equitable grantmaking.

Granted the first slate of awards under the new Chesapeake Watershed Investments for Landscape Defense with the U.S. Fish and Wildlife Service.



Photo Credit: ecoLatinos

OUR PROJECTS: 1

Investing in Environmentally Friendly Landscape Training for Latino Landscapers

ecoLatinos is training 36 landscape professionals on green landscaping methods and creating a replicable Spanish language model for engaging new communities in regional watershed restoration efforts.

The nonprofit ecoLatinos, which has a mission to engage, educate, and activate the diverse communities of the Chesapeake Bay and the Mid-Atlantic Region, knows that teaching Latino landscapers how to use more environmentally friendly landscaping methods benefits the workers and their communities. The organization recently received funding from NFWF to develop exactly this type of training. The program will offer the local Latino community educational opportunities that have traditionally excluded them.

“Latinos are a big part of the workforce, and a language barrier should not mean that these communities do not receive education readily available to others,” said Ruby Stemmler, the founder of ecoLatinos.

This new training project will convert the English-language Chesapeake Conservation Landscaping Council’s Chesapeake Bay Landscape Professional Certification program into a Spanish-language program that is interpreted to be more accessible for native Spanish speakers. Adapting the program to meet

the needs of Latinos also means offering the training at convenient times based off their schedules, education levels, and priorities. This program will help participating landscapers to be more competitive in the workforce.

Stemmler and her team recognize landscapers might not be as focused on the training and more interested in getting their job done but are hopeful that once they understand the training and its benefits, they will be more likely to participate.

To make the training as successful as possible, ecoLatinos is putting together a steering committee of stakeholders to create the design of the program and landscape professionals who will give their input on the creation of the culturally relevant programming. Training content may be adjusted once the first year of research has been completed.

The project aims to start its first training cycle in early 2024. The winter months are an ideal time for



training since landscapers are more available than they would be in the busy summer months and have the capacity to complete the certification.

Stemmler emphasized the project’s environmental justice focus for the Latino community.

“Having access to the latest environmental technology is a right,” she said. “If it is not available to Latinos, then we are losing benefits to the whole community.”



OUR PROJECTS: 2

Combining Western Ecological Science and Traditional Indigenous Science to Restore Virginia's Shorthill Region

Indigenous stewardship has been practiced across the globe for millennium and continues to be a key tradition in conservation. To continue the practices of honoring the wisdom of past generations, NDPonics—an Indigenous-led nonprofit—is using a grant through the NFWF Chesapeake Bay Stewardship Fund for strategic planning and is applying for additional NFWF funding next year to restore and protect mountaintop forestland in Rockbridge County, Virginia.

With thousands of acres of pine and hardwood trees, white-tailed deer, and many species of migratory birds, Virginia's Short Hill Mountain has always been known for its ecological diversity. The region has been tended to and restored by the Monacan Nation for centuries. For Lucas Tyree, Monacan Nation member and executive director of NDPonics, reclaiming, restoring, and protecting the natural habitat of the Indigenous people of the hills in Virginia is an expression of his culture and spirituality.

"Our mission is to maintain areas of spiritual and historic significance to the Indigenous people of the hills using indigenous science practices and to

work with communities to promote engagement in traditional forest [management] and permaculture living," Tyree said.

The Short Hills Indigenous Wetland Assessment and Restoration Plan will provide essential data for critical future implementation efforts aimed at restoring 56 acres of wetlands and protecting endangered species and migratory bird habitats while also preventing future aquatic ecosystem failure.

Surrounding an earthen dam in the Short Hill Mountain is Lake yetáñi yāop. The lake is home to eastern brook trout and is a stopping point for geese during migration. The golden winged warbler, an endangered species, is also native to the region.

The project—which received a \$75,000 planning grant from NFWF and \$1,125,000 in matching funds—kicked off in early 2023. Since then, NDPonics has put together the Short Hills Indigenous Workgroup, made up of a group of contractors and Indigenous scientists and non-profit groups coming together to prepare for the project's implementation.

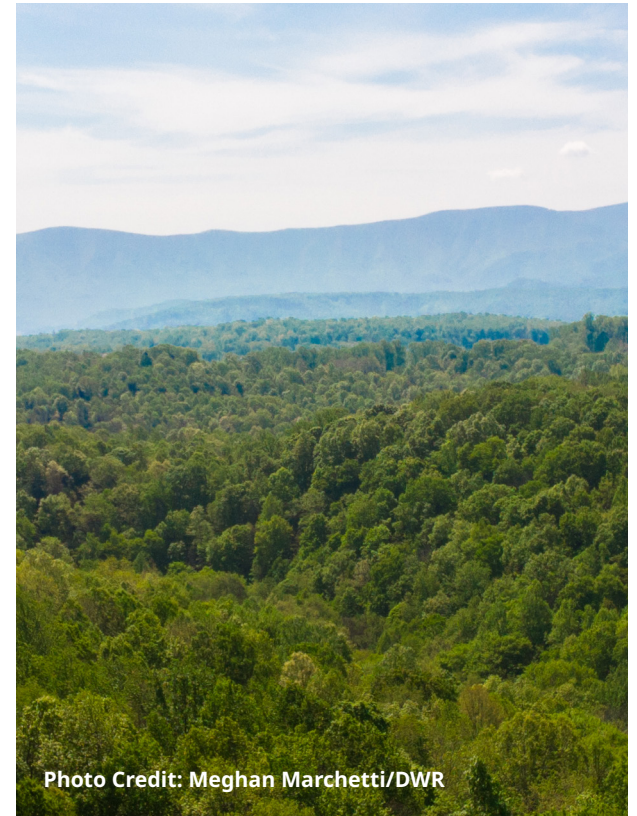


Photo Credit: Meghan Marchetti/DWR

"This project combines contemporary scientific methodology and traditional Indigenous treatments to care for the lands my ancestors have lived on for centuries," Tyree said. "Through forest preservation and ecosystem remediation, Indigenous traditions can be passed down in the environment they were nurtured in and founded upon."



OUR PROJECTS: 3

Protecting Drinking Water in East Cocalico Township through Farm Collaboration

Everyone deserves clean water. To maintain the quality of its local groundwater sources of supply, the East Cocalico Township Authority (ECTA) is using a grant through the National Fish and Wildlife Foundation (NFWF) Chesapeake Bay Stewardship Fund to collaborate with nearby farmers to keep ECTA's water supply clean for generations to come.

"The opportunity to work with the community and to reduce potential nitrate pollution is great," said Michael Galley, the Water Quality & Environmental Compliance Specialist with ECTA.

ECTA is based in Lancaster County, Pennsylvania. Agriculture is a leading industry in the area, and the fertilizer used on farms can cause nitrates to reach the groundwater supply wells that drinking water providers rely on for a safe and reliable water supply. In fact, agricultural activity represents the second largest area used within ECTA's Source Water Protection Area, accounting for approximately 4,600 acres.

Nitrates in drinking water can pose a public health risk if the concentration levels get too high. For instance, high nitrate levels in water can cause infant methemoglobinemia, also known as Blue Baby

Syndrome. According to the Safe Drinking Water Act, drinking water must have less than 10 milligrams of nitrate per liter.

To prevent nitrate sources from entering its groundwater sources supply, ECTA is working with farmers located in their source water protection areas to implement conservation practices, including crop consulting, no-till practices, and adaptive nutrient management.

"A lot of these farmers already engage in some of this work, and this program builds on those best management practices and industry standards," Galley said. "Through this work, farmers may maximize their profit [by maintaining the same crop yield with less fertilizer], and ultimately support the greater good of community."

The project—which received a \$282,700 grant from NFWF with a \$500,000 match—kicked off in early 2023. ECTA was inspired to start this project based on the successes other Lancaster County drinking water providers have had with similar methodologies. Reducing nitrate levels through collaboration with farmers can be an effective complement to



conventional engineering treatment, which can be costly and difficult.

As a result of these partnerships, ECTA hopes to influence a decreasing trend in groundwater nitrate levels near its supply wells as a result of farmers applying less fertilizer to their fields.

"Lower nitrate levels in the raw water due to the work being done within the Source Water Protection Area can lower our operating costs and prolong the useful life of our treatment facilities," Galley said.



OUR 2022 GRANTS

Chesapeake Bay Small Watershed Grants Program

Delaware

Centenary Church Green Parking Lot Design (DE)

Grantee: Nanticoke Watershed Alliance

Grant Amount: \$43,500

Partner with the Centenary Church in Laurel, Delaware, to complete an engineering design to convert an existing parking lot and an adjacent property into a green parking lot for improved water quality and stormwater management. Project will build upon other green infrastructure projects in the town of Laurel and will help support improved water quality.

Restoring Headwater Wetlands on Marginal Cropland (DE)

Grantee: ShoreRivers

Grant Amount: \$499,100

Restore critical headwater freshwater shallow wetland habitat in the upper Choptank and Chester watersheds in Delaware. Project will restore 32 acres of marginal cropland to high quality freshwater wetland habitat.

Maryland

Accelerating Agricultural Conservation through Corporate Sustainability Initiatives (MD)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000

Partner with the Maryland and Virginia Milk Producers Cooperative Association and Maryland Department of Agriculture to advance adoption of agricultural conservation practices that support water quality improvements and corporate supply chain sustainability goals. Project will work with seven dairies in Maryland to plan and implement conservation practices on 300 acres.



Charlestown Water Quality Retrofits and Stream Restoration (MD)

Grantee: Town of Charlestown, Maryland

Grant Amount: \$74,500

Design retrofits for existing stormwater management facilities and a concept-level stream restoration project on and adjacent to the city-owned recreation facilities. Project will work to achieve stated goals in the Town of Charlestown Stormwater Vulnerability & Floodplain Management Assessment and the Northeast River Watershed Assessment Priority Sites Re-Evaluation Report, both completed in 2019.

Collaboratively Developing Long-Term Oyster Restoration Plans for Eastern Bay (MD)

Grantee: Oyster Recovery Partnership

Grant Amount: \$471,900

Galvanize collaborative efforts to restore oyster populations in Eastern Bay on Maryland's Eastern Shore. Project will establish stakeholder goals and objectives for long-term oyster population efforts, utilize new sonar maps to delineate oyster habitat, and generate local stewardship through community engagement and education.

OUR 2022 GRANTS

Community-Based Shoreline Restoration in the South River (MD)

Grantee: Chesapeake Bay Foundation

Grant Amount: \$69,200

Identify, design, and permit a living shoreline project in the Harness Creek sub-watershed of the South River along Quiet Waters Park in Anne Arundel County. Project will target up to 500 linear feet of eroding shoreline and will incorporate a living oyster reef breakwater in the structural design to directly enhance critical habitat for oysters, fish, and invertebrates while mitigating shoreline erosion and marsh loss.

Creating a Community-Led Climate Resilience Workforce (MD)

Grantee: Chesapeake Conservancy

Grant Amount: \$445,400

Deploy community-led conservation crews in Baltimore City and Prince George's and Howard Counties focused on tree planting and maintenance, green infrastructure improvements and maintenance, native habitat restoration, and other priority greening projects co-identified and prioritized with community stakeholders. Project will support 30 crew members over two 14-week deployments and result in planting 1,800 trees.

Creating a Restoration Resource Workforce through Reentry Partnerships (MD)

Grantee: Maryland Reentry Resource Center

Grant Amount: \$171,400

Provide green infrastructure and conservation landscaping training through partnership with the Maryland Reentry Resource Center and Chesapeake Conservation Landscaping Council. Project will enhance conservation-related reentry opportunities and support tree planting and maintenance of existing green infrastructure across Anne Arundel County.

Creating Pollinator Habitat and Enhancing Food Security in Baltimore (MD)

Grantee: National Wildlife Federation

Grant Amount: \$146,500

Create and enhance pollinator habitat around urban agriculture and nursery sites in Baltimore in partnership with community-based organizations looking to expand education, training, and food access for local communities. Project will improve conservation landscaping and pollinator habitat for more than two acres at six sites across the city.

Demonstrating Conservation Landscaping and Pollinator Habitat for Landowners and Landscapers (MD)

Grantee: Audubon Naturalist Society of the Central Atlantic States

Grant Amount: \$188,600

Improve four acres of degraded grassland habitat at Woodend Nature Sanctuary in Chevy Chase, Maryland, to serve as a demonstration and training center for watershed restoration and stormwater management in the Washington, D.C. metro region. Project will recruit 150 local community members to install additional pollinator habitat and conservation landscaping in the broader Sligo Creek watershed.

Developing Equitable Green Infrastructure for the Port Towns (MD)

Grantee: University of Maryland

Grant Amount: \$499,800

Develop and pilot implementation of a Walkable Watershed Plan for the Port Towns of Prince George's County, improving municipal collaboration and shared planning for coordinated habitat restoration, resilience, and stormwater management efforts. Project will engage 150 community members in both English and Spanish-language events to help inform community goals and interests for local watershed restoration.

OUR 2022 GRANTS

Engaging the Next Generation of Land Stewards in Agricultural Conservation (MD)

Grantee: ShoreRivers

Grant Amount: \$33,200

Engage Eastern Shore landowners most receptive to new information and ideas by convening a cohort of Next Generation Land Stewards, new or upcoming landowners, to gather with local agricultural conservation professionals to share information, resources and expertise around land stewardship. Project will connect Stewards with local experts, create an inclusive learning space, and help them navigate the resources and programs available for conservation work on agricultural land in the region.

Establishing New Models for Equitable and Inclusive Stewardship of the Chesapeake Bay Watershed (MD)

Grantee: The Anne Arundel County Watershed Stewards Academy

Grant Amount: \$499,500

Develop a new model for Watershed Steward programs serving communities underrepresented in watershed stewardship activities across northern and western Anne Arundel County. Project will pilot a framework for environmental leadership among Spanish-language speakers and communities of color to identify, design and install community-led watershed improvement projects.

Expanding Community Green Infrastructure and Urban Tree Canopy in Baltimore Neighborhoods (MD)

Grantee: ReBUILD Metro

Grant Amount: \$485,600

Increase greenspace, sustainability and community ownership in East Baltimore by restoring a contaminated vacant lot into a safe and community-friendly urban garden and conservation landscape and removing impervious surfaces to plant native shade trees on residential streets. Project will convert more than a half-acre of vacant lot into a community greenspace and engage 200 community members and volunteers in project planning, design, and implementation.

Expanding Local Participation in Flood Mitigation and Forestry Care Strategies in Urban Baltimore (MD)

Grantee: Baltimore Green Space

Grant Amount: \$230,000

Enhance urban forestry efforts in Baltimore through improved urban forest management, community outreach and educational activities, and college-level field training. Project will engage 3,000 city residents through outreach and 600 volunteers in urban forestry programming in the city.

Expanding Spanish-Language Watershed Stewardship in the Patapsco and Anacostia Watersheds (MD)

Grantee: Defensores de la Cuenca

Grant Amount: \$465,500

Expand La Academia, a paid adult watershed training and stewardship program delivered in Spanish, in the Anacostia and Patapsco River watersheds. Project will pair culturally relevant education with hands-on experiences and culminate in completion of individually led stormwater improvement projects in local communities.

Green Infrastructure Inventory, Design, and Asset Management for Prince George's County Schools (MD)

Grantee: The Neighborhood Design Center

Grant Amount: \$74,700

Design green infrastructure and maintenance plans for three Prince George's County Public Schools that will act as a pilot for a school-system wide green infrastructure asset design and management process. Project will provide plans that prioritize managing and reducing stormwater runoff, protect and enhance native flora and fauna and critical habitat, improve campuses' climate resilience, and engage school community members in environmental stewardship.

OUR 2022 GRANTS

Implementing Green Infrastructure Across City Neighbors Foundation Campuses (MD)

Grantee: City Neighbors Foundation

Grant Amount: \$196,600

Install green infrastructure practices at campuses of the City Neighbors Foundation across Baltimore. Project will treat stormwater runoff from one acre of impervious surfaces and enhance the Foundation's experiential environmental education programs.

Implementing High-Impact Runoff Reduction Projects in Baltimore (MD)

Grantee: Blue Water Baltimore

Grant Amount: \$500,000

Install priority, community-identified watershed restoration projects in Baltimore's Howard Park, and Coppin Heights and Ash-Co-East neighborhoods, empower individual homeowners to implement conservation practices, and engage residents in pollution detection and stream learning opportunities. Project will engage more than 900 community members and volunteers and improve stormwater management for nearly four acres of urban land in the city.

Installing Stormwater Wetlands at Baltimore's Union Collective (MD)

Grantee: Central Baltimore Partnership

Grant Amount: \$204,300

Install a stormwater wetland at Union Collective, a hub for independently owned, Baltimore-based businesses in the city's Hampden neighborhood. Project will treat runoff from two acres of the Union Collective campus and further implementation of a green infrastructure master plan developed for the campus.

Piney Point Living Shoreline and Habitat Restoration Project (MD)

Grantee: GreenTrust Alliance

Grant Amount: \$75,000

Design an ecologically holistic and innovative approach to provide shoreline stabilization and essential habitat at Piney Point by using natural structures and shellfish habitat structures like oyster reef balls. Project will result in plans for establishing a functional tidal marsh with a dynamic and resilient shoreline.

Port Towns Urban Forestry Inventory and Management Plans (MD)

Grantee: The Neighborhood Design Center

Grant Amount: \$69,300

Complete a community-informed street tree inventory, assessment, and design process for three of Prince George's County's Port Towns communities. Project will deliver a plan, maps, recommendations for future plantings, and additional supporting materials for improving and maintaining new and existing tree canopy in public spaces.

Prince George's County Municipal Stormwater Maintenance Training Pilot (MD)

Grantee: The Neighborhood Design Center

Grant Amount: \$56,000

Convene four Prince George's County municipalities with varying degrees of experience in watershed management to form a Public Works Department training and maintenance schedule development cohort. Project will provide hands-on training by local stormwater engineering experts and uniform maintenance schedules customized to each municipality's inventory of stormwater management practices and has the potential to impact more than 3,000 acres of municipal land in the Anacostia River watershed.

OUR 2022 GRANTS

Restoring Living Shoreline and Enhancing Community Open Space in Hawkins Cove (MD)

Grantee: City of Annapolis

Grant Amount: \$500,000

Install a living shoreline to improve water quality, habitat and resilience in Hawkins Cove and improve public access for the surrounding community. Project will engage 300 community members in project planning, design and implementation.

Restoring St. Mary's River Oyster Sanctuary through Community Partnerships (MD)

Grantee: Coastal Conservation Association Maryland

Grant Amount: \$182,800

Build and deploy oyster reef ball habitat in the St. Mary's oyster sanctuary, one of five Maryland tributaries targeted for large-scale oyster reef restoration. Project will utilize community engagement to deploy more than 600 reef balls to serve as reef habitat for oyster populations in the St. Mary's sanctuary.

Reducing Stormwater Runoff and Supporting Black Businesses and Communities (MD)

Grantee: City of Baltimore Planning Department

Grant Amount: \$65,000

Engage three East Baltimore neighborhoods and the National Great Blacks in Wax Museum to create a community-led stormwater management design to manage runoff in the community. Project will inform plans for a community-managed green space for use as a living classroom and other community needs.

Seat Pleasant and Fairmount Heights Urban Forestry Inventory and Management Plans (MD)

Grantee: The Neighborhood Design Center

Grant Amount: \$60,900

Complete a community-engaged street tree inventory, assessment, and design process for the Seat Pleasant and Fairmount Heights communities in Maryland. Project will provide plans, maps, recommendations for future plantings and additional supporting materials for improving and maintaining new and existing tree canopy in public spaces.

Severn River Watershed Planning Strategy and Subwatershed Action Plan Development (MD)

Grantee: Severn River Association

Grant Amount: \$72,500

Build capacity in the Severn River watershed to implement future on-the-ground water quality and habitat restoration actions. Project will develop a long-term strategy for action plan development that prioritizes subwatersheds for protection and restoration and conduct assessments and develop an action plan for one priority subwatershed.

Transforming a Stormwater Pond into a Wetland Complex to Enhance Tidal Water Quality and Habitat (MD)

Grantee: The Chesapeake Rivers Association

Grant Amount: \$75,000

Retrofit an existing stormwater pond into a regenerative stormwater conveyance with integrated stream and wetland habitat. Project will create and enhance habitat, sequester carbon, improve water quality, mitigate flooding, provide resilience to the effects of climate change, and serve as a prototype for communities with clay core dams around the Chesapeake Bay.

OUR 2022 GRANTS

Transforming Urban Lands to Improve Community Resilience, Biodiversity, and Water Quality (MD)

Grantee: Howard EcoWorks

Grant Amount: \$173,900

Install tree plantings, perennial agricultural plantings, and conservation landscaping in historically underserved areas across the greater Baltimore region. Project will treat polluted stormwater runoff from nearly five acres and advance improved community engagement in planning and implementation of local conservation projects.

New York

Denison Park Stormwater and Green Infrastructure Plan (NY)

Grantee: City of Corning

Grant Amount: \$75,000

Complete a Stormwater and Green Infrastructure Plan for Denison Park, the City of Corning's most visited and largest park, located adjacent to the Chemung River in New York. Project will identify green infrastructure solutions to address urban stormwater and ensure that water quality of the Chemung River is protected consistent with the City's 2020 Park Strategy.

Expanding Brook Trout Habitat Reconnection and Restoration Efforts (NY)

Grantee: Trout Unlimited

Grant Amount: \$359,200

Enhance and increase eastern brook trout populations in Wylie Brook and Butternut Creek through riparian forest restoration and improved planning, assessment, and design of future restoration actions. Project will expand landowner outreach, complete road stream crossing assessments, and improve collection of species biomass data to inform ongoing restoration efforts.

Pennsylvania

Accelerating Agricultural Pollution Reduction in the Mahantango Watershed (PA)

Grantee: Snyder County Conservation District

Grant Amount: \$414,000

Reduce agricultural runoff in the West and North Branches of Mahantango Creek through farmer outreach, agricultural conservation plans development, and conservation practices implementation on beef and poultry operations. Project will result in development of 30 agricultural conservation plans to guide future farm management for improved water quality.

Advancing Conservation Practice Implementation Through Planning (PA)

Grantee: Lebanon County Conservation District

Grant Amount: \$61,200

Provide additional technical assistance support to assist with the significant amount of requests for conservation plans within the Little Swatara and Swatara Creek watersheds in Lebanon County. Project will result in the development of more than 50 agricultural conservation plans that will advance the implementation of pollutant reduction best management practices on farms in these watersheds in the future.

Agricultural Conservation Planning for Impact with Dairy Farmers of America (PA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$75,000

Complete six preliminary concept plans for agricultural conservation practices for producer members of the Dairy Farmers for America cooperative in order to improve water quality in south-central Pennsylvania.

OUR 2022 GRANTS

Building Organizational Capacity for Clean Water in Franklin County, Pennsylvania (PA)

Grantee: University of Maryland Environmental Finance Center

Grant Amount: \$62,000

Establish a new countywide water quality organization that will build local capacity to advance the implementation of water quality improvements identified as priorities in the Franklin County's clean water plans. Project will address critical gaps in restoration capacity within existing agencies and environmental and conservation organizations in the county.

Catalyzing Action for Clean Water in the Capital Region (PA)

Grantee: Capital Resource Conservation and Development Area Council

Grant Amount: \$499,700

Implement new, cost-effective agricultural conservation practices and improve reporting of existing practices across Pennsylvania's capital region through the use of innovative technology and increased staff capacity. Project will utilize trusted conservation partners to improve understanding of the region's current conservation efforts while driving additional water quality improvements consistent with locally led clean water plans.

Comprehensive Nutrient Management Planning for Lancaster County Farms (PA)

Grantee: Stroud Water Research Center

Grant Amount: \$499,700

Accelerate implementation of agricultural water quality improvements in Lancaster County through development and implementation of comprehensive nutrient management plans. Project will result in more than 1,100 acres under improved nutrient management and more than four miles of riparian forest buffers and livestock exclusion fencing implemented to protect sensitive stream ecosystems.

Developing Agricultural Conservation Partnerships to Improve Water Quality and Stream Health (PA)

Grantee: The Nature Conservancy

Grant Amount: \$75,000

Accelerate wetland and stream restoration across agricultural lands in the upper Cocalico Creek watershed of Pennsylvania through the development of a regional-scale partnership that builds capacity for planning and implementation. Project will create a pipeline of landowners interested in restoring wetlands and streams and a strengthening of partnerships across the watershed that will identify, secure, and implement future projects.

Enhanced Capacity for Delivering Technical Assistance for Watershed Stewardship (PA)

Grantee: Pennsylvania Organization for Watersheds and Rivers

Grant Amount: \$39,900

Establish a formal regional-scale partnership between the Pennsylvania Organization for Watersheds and Rivers and Penn State Extension's Master Watershed Steward program to improve delivery of technical assistance and enhanced local capacity for watershed and habitat restoration efforts. Project will employ virtual and in-person convenings, field site visits, and other approaches to deliver targeted outreach strategies and specific restoration education, training and technical assistance.

Enhancing Resilience of the Cowanesque Watershed through Collaboration (PA)

Grantee: Potter County Conservation District

Grant Amount: \$500,000

Implement more than 11,000 acres of soil health practices across the headwaters of the Cowanesque River in Potter and Tioga counties, including cover crops, no-till, prescribed grazing, and nutrient management. Project will enhance eastern brook trout populations in a high priority patch by restoring connectivity to upstream cold-water habitat through replacement of an existing stream culvert.

OUR 2022 GRANTS

Floodplain Restoration on Indian Run (PA)

Grantee: Lancaster County Conservation District
Grant Amount: \$455,600

Restore approximately 860 linear feet along Indian Run in the Little Conestoga River watershed. Project will create more than a half acres of floodplain wetland habitat.

Floodplain Restoration on Oil Creek (PA)

Grantee: York County Rail Trail Authority
Grant Amount: \$500,000

Restore more than a mile of Oil Creek to improve water quality and protect a planned trail corridor to improve local public access. Project will restore up to eight acres of historic wetlands.

Helping Farmers Accomplish Conservation Goals in the West Branch Susquehanna River Watershed (PA)

Grantee: Union County Conservation District
Grant Amount: \$500,000

Implement agricultural conservation practices on four farms in the Turtle Creek watershed within the broader West Branch of the Susquehanna River. Project will complete whole farm conservation plans by strategically leveraging federal conservation program funding to fulfill farm-level funding needs.

Implementing Agricultural Conservation Practices on Preserved Farms in Pequea Creek (PA)

Grantee: Lancaster Farmland Trust
Grant Amount: \$479,000

Advance water quality improvements in Strasburg Township and the Pequea Creek watershed by coupling farmland protection and landowner outreach. Project will result in 30 new conservation plans for farms in the area and full-scale implementation on two permanently preserved farms.

Improvement Stormwater Management at Harveys Lake (PA)

Grantee: Harveys Lake Borough
Grant Amount: \$89,200

Increase efficiency of existing stormwater management facilities by utilizing new filter techniques to improve nitrogen and phosphorus removal. Project will incorporate stormwater monitoring to better understand nutrient removal capacity from practice enhancements.

Increasing Resilience of Priority Eastern Brook Trout Stronghold Patches in the Chesapeake Bay (PA)

Grantee: Trout Unlimited
Grant Amount: \$254,000

Enhance and increase eastern brook trout populations in habitat strongholds in Pennsylvania's Pine and Kettle Creeks. Project will develop a long-term plan for aquatic connectivity and cold-water habitat enhancements and restore more than a mile of riparian forest habitat.

Kennedy Elementary Green Schoolyard Design (PA)

Grantee: The Trust for Public Land
Grant Amount: \$75,000

Design a schoolyard at Kennedy Elementary School in Scranton that meets community needs for a healthy, equitable and climate-resilient community park. Project will provide new opportunities to explore stormwater management in Scranton schoolyards, engage dozens of students and residents in a process of hands-on education about their schoolyard and its place in the watershed, and incorporate a low-income community of color in planning and design of public community green spaces.

OUR 2022 GRANTS

Meeting Lancaster County's Clean Water Goals through Riparian Forest Buffers (PA)

Grantee: Stroud Water Research Center
Grant Amount: \$499,300

Increase capacity and accelerate the rate of installing state-of-the-art riparian forest buffers towards locally led clean water plans for Lancaster and Chester counties. Project will result in more than 40 acres and nearly 10 miles of riparian forest buffer implemented to intercept polluted runoff and protect sensitive stream ecosystems.

Middle Creek Strategic Watershed Restoration Plan (PA)

Grantee: Schuylkill Conservation District
Grant Amount: \$50,000

Conduct an assessment of the Middle Creek watershed and develop a restoration plan that addresses sources of stormwater, flooding, sediment, and habitat fragmentation to build environmental and community resiliency. Project will rank pollution sources and watershed stressors and identify specific restoration solutions with highest impact and lowest cost and risk.

Protecting Drinking Water in East Cocalico Township through Farm Collaboration (PA)

Grantee: East Cocalico Township Authority
Grant Amount: \$282,700

Improve local drinking water quality in East Cocalico Township by partnering with farmers to implement agricultural conservation practices that reduce nitrogen pollution to local groundwater supplies. Project will implement 900 acres of conservation practices, including cover crops, no-till, and adaptive nutrient management.

Protecting Drinking Water in West Cocalico Township through Farm Collaboration (PA)

Grantee: West Cocalico Township Authority
Grant Amount: \$213,000

Improve local drinking water quality in West Cocalico Township by partnering with farmers to implement agricultural conservation practices that reduce nitrogen pollution to local groundwater supplies. Project will implement 630 acres of conservation practices, including cover crops, no-till and adaptive nutrient management.

Restoring Conewago Creek (PA)

Grantee: Londonderry Township
Grant Amount: \$500,000

Restore and create more than 2,600 linear feet of stream habitat as part of a broader initiative to restore Conewago Creek. Project will restore and reconnect an additional five and a half acres of floodplain.

Restoring Gross Run Stream (PA)

Grantee: Ephrata Borough
Grant Amount: \$500,000

Restore approximately 4,500 linear feet along Gross Run and tributaries within the Indian and Cocalico Creek watersheds. Project will create five acres of riparian habitat and nearly an acres of floodplain wetland habitat.

Restoring the Little Conestoga Creek Blue-Green Corridor (PA)

Grantee: The Little Conestoga Creek Foundation
Grant Amount: \$500,000

Advance efforts to establish the Little Conestoga Blue-Green corridor through stream restoration, floodplain reconnection, and riparian buffer restoration. Project will restore one acre of floodplain and engage 30 volunteers in restoration activities.

OUR 2022 GRANTS

Restoring the Little Conestoga River (PA)

Grantee: East Hempfield Township

Grant Amount: \$499,600

Restore the Little Conestoga River through a combination of stream restoration, invasive species removal, wetland restoration and creation, installation and retrofit of green infrastructure for stormwater management, and planting of native trees and shrubs. Project will directly restore nearly one mile of stream and enhance more than 10 acres of riparian habitat, while enhancing public access to the restored Little Conestoga.

Restoring Urban Streams to Connect Blair County Communities and Improve Water Quality (PA)

Grantee: Intergovernmental Stormwater Committee

Grant Amount: \$500,000

Restore 1,800 linear feet of Brush Run Steam Corridor in the priority subwatershed Mill Run Beaverdam Branch, reducing 192,200 pounds annually of sediment and improving water quality and stream health. Project will restore one acre of riparian forest buffers and will revitalize and enhance ecosystems for the eastern brook trout, pollinators, aquatic organisms and Pennsylvania native plant species.

Wizard Ranch Floodplain Restoration and Habitat Enhancement (PA)

Grantee: Lancaster Conservancy

Grant Amount: \$75,000

Create a reach-wide stream restoration plan at Wizard Ranch Nature Preserve. Project will address the overall health of the stream corridor and include recommendations for areas of streambank stabilization, streambed elevation, grade-control structures, invasive species management and installing native plants.

Virginia

Boxerwood Watershed and Wetland Restoration and Planning (VA)

Grantee: Boxerwood Education Association

Grant Amount: \$63,500

Collaborate with experts to develop a comprehensive plan for managing excess stormwater runoff at the Boxerwood Education Association's nature center and woodland garden in Lexington, Virginia.

Developing Best Practices to Enhance Critical Beach Habitat and Community Resilience (VA)

Grantee: Randolph-Macon College

Grant Amount: \$72,500

Determine the effects of shoreline stabilization methods on beach habitat and educate relevant stakeholders about the benefits of shoreline management strategies that can enhance both communities and ecosystems. Project will help conserve critical beach habitat for the federally threatened Northeastern beach tiger beetle and increase resilience of Chesapeake Bay beaches and coastal communities.

Empowering Veterans to Engage in Coastal Resiliency (VA)

Grantee: Middle Peninsula Planning District Commission

Grant Amount: \$75,000

Utilize military veterans to address existing gaps in the local climate resilience and ecosystem restoration workforce.

Develop and formalize a partnership between the Middle Peninsula Chesapeake Bay Public Access Authority and Knott Alone-Hold Fast to utilize military veterans to address existing gaps in the local climate resilience and ecosystem restoration workforce.

OUR 2022 GRANTS

Engaging Industrial Properties in Water Quality Improvement for the Elizabeth River (VA)

Grantee: Hampton Roads Planning

District Commission

Grant Amount: \$490,600

Pilot implementation, maintenance and verification of water quality improvement and flood reduction practices on privately owned industrial lands in the Elizabeth River watershed. Project will provide a model for expanded engagement of industrial landowners in voluntary contributions to Hampton Road's clean water and climate resilience goals.

Expanding Manure Injection as a Standard Application Method on Dairy Farms (VA)

Grantee: Shenandoah Valley Soil &

Water Conservation District

Grant Amount: \$500,000

Expand the adoption of manure injection as a standard approach to better apply manure nutrients for agricultural production and water quality benefits through trusted local agricultural conservation partners. Project will result in 4,500 cropland acres under improved nutrient management.

Farmer-Led Innovations in Cover Cropping (VA)

Grantee: Sustainable Chesapeake

Grant Amount: \$499,800

Expand the adoption of cover crops among Virginia farms by demonstrating and evaluating innovative technologies that reduce time and input costs associated with cover cropping systems. Project will result in 7,580 acres of new cover crops planted across Virginia.

Green Infrastructure Improvements to Richmond's Blackwell Playground (VA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000

Implement green infrastructure practices to enhance recent improvements at Blackwell Playground in Richmond's Blackwell neighborhood. Project will improve water quality and reduce local heat island impacts through community engagement alongside trust community partners.

Greening and Community Connections in Highland Park (VA)

Grantee: Groundwork RVA

Grant Amount: \$75,000

Improve community engagement of Richmond's Highland Park neighborhood to address concerns around gentrification and displacement at a critical time for the community given planned greening efforts underway. Project will add to the tree canopy both at street level and in community green spaces, including small-scale urban forests, and demonstrate that disparate impacts from the urban heat island effect are not an inevitable outcome for low-and-moderate income communities.

Greening Faith Places and Community Spaces (VA)

Grantee: Chesapeake Bay Foundation

Grant Amount: \$467,200

Enhance water quality improvement efforts in Central Virginia through tree planting on public lands, job training for at-risk youth, and partnering with houses of worship to plan, design, and install green infrastructure practices on congregational properties. Project will engage 160 volunteers and improve stormwater management for more than three acres.



OUR 2022 GRANTS

Habitat and Fish Passage Assessments in Virginia Brook Trout Stronghold Focal Areas (VA)

Grantee: Trout Unlimited

Grant Amount: \$74,500

Fill data gaps in eastern brook trout strongholds of the Upper Jackson River, the Upper Cowpasture River, and the Upper North Fork Shenandoah River in Virginia. Project will assess fish passage at nearly 200 road stream crossings, conduct biological surveys and data analysis for more than 60 catchments to determine the presence or absence of brook trout, and measure stream temperatures and instream habitat quality in reaches of streams most heavily impacted by agricultural land use.

Improve Resilience of Riparian Forests in the Urban Corridor of the Rivanna River (VA)

Grantee: Rivanna Conservation Alliance

Grant Amount: \$340,000

Organize and implement a coordinated effort among nonprofits, local governments, and community stakeholders to improve riparian forest resilience in the urban corridor of the Rivanna River. Project will result in improved management of 130 acres of riparian forests across three urban river parks.

Improving Aquatic Organism Passage for Brook Trout in the Upper North Fork Shenandoah River (VA)

Grantee: Trout Unlimited

Grant Amount: \$252,500

Enhance and increase eastern brook trout populations in the Upper North Fork of the Shenandoah River. Project will reconnect 21 miles of high-quality headwaters habitat by removing two barriers to fish movement and unite two fragmented habitat patches into a larger, more resilient unit.

Middle James River Preservation Plan (VA)

Grantee: Central Virginia Planning District Commission (CVPDC)

Grant Amount: \$75,000

Provide the foundation for a science and engineering-based evaluation of practices that can be employed to reduce the impacts of stormwater, sedimentation, and streambank erosion in and around Lynchburg and Madison Heights in Amherst County, Virginia. Project will result in a plan that will include at least five priority projects or programs and include associated cost estimates, stakeholder partners, and funding mechanisms.

Opening Barn Doors for Clean Water and Healthy Cows (VA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000

Assist dairy farmers with developing and implementing conservation plans with the partnership of the Maryland Virginia Milk Producers Cooperative, Virginia Department of Conservation and Recreation, and local soil and water conservation districts. Project will work with farmers in the Shenandoah Valley to install riparian forest buffers and upland forest plantings, stream exclusion fencing, rooftop runoff controls, manure management, and nutrient management plans.

Petersburg Battlefield Flood Remediation and Drainage Improvements (VA)

Grantee: James River Association

Grant Amount: \$75,000

Engage the Petersburg's Lakemont neighborhood in planning and design work associated with the Petersburg Battlefield Flood Remediation and Drainage Improvements project. Project will support efforts to alleviate detrimental flooding caused by stormwater through the design and implementation of engineered solutions.

OUR 2022 GRANTS

Piedmont Grassland Bird Initiative to Guide and Strengthen Working Lands Conservation (VA)

Grantee: Smithsonian Institution

Grant Amount: \$500,000

Enhance collective capacity to better manage agricultural lands in Virginia as habitat for grassland birds through enhanced regional conservation planning, consistent landowner messaging across local conservation partners, and applied research to understand and improve ongoing efforts. Project will improve grassland habitat management on 3,000 acres across the Virginia Piedmont and Shenandoah Valley and permanently protect 600 acres of critical grassland habitat.

Rappahannock River Oyster Restoration Partnership (VA)

Grantee: Friends of the Rappahannock

Grant Amount: \$499,600

Increase regional capacity and implementation efforts to restore oyster populations in Virginia's Rappahannock River. Project will restore 25 acres of oyster reef and plant more than one million oysters through engagement of local schools and businesses, nonprofits and research institutes, and volunteers.

Resilience-Based Shoreline Protection and Habitat Restoration on Hog Island (VA)

Grantee: Middle Peninsula Planning

District Commission

Grant Amount: \$500,000

Install a nature-based shoreline protection and habitat restoration project along Hog Island in Gloucester County, Virginia. Project will protect and enhance habitat for shorebirds, oysters, and other species, and protect vulnerable communities at risk from shoreline erosion and coastal storms.

Restoring and Stewarding the Ancestral Watershed of the Upper Mattaponi Indian Tribe (VA)

Grantee: Upper Mattaponi Indian Tribe

Grant Amount: \$500,000

Restore and steward the recently reacquired lands of the Upper Mattaponi Indian Tribe in King William County through conservation design and implementation of aquatic ecosystem restoration efforts. Project will implement 115 acres of agricultural conservation practices to improve water quality and habitat and restore a half mile of stream habitat.

Shenandoah County River Heroes Pilot Program (VA)

Grantee: Northern Shenandoah

Valley Regional Commission

Grant Amount: \$74,600

Provide resources and social incentives for individuals, organizations, businesses, and municipalities to adopt practices that reduce nonpoint source pollution and support water quality in Shenandoah County. Project will perform formative research needed to understand our target audiences, design an effective social marketing strategy for each audience, define target behaviors, and develop tailored outreach and program materials for each audience.

Short Hills Indigenous Wetland Assessment and Restoration Plan (VA)

Grantee: ND Ponics

Grant Amount: \$75,000

Develop a wetland assessment and restoration and management plan for an Indigenous-owned mountaintop forestland in Rockbridge County, Virginia. Project will provide essential data for critical future implementation efforts aimed at restoring wetland conditions to protect endangered species and migratory bird habitat while also preventing future aquatic ecosystem failure.

OUR 2022 GRANTS

Uniting the Community to Develop the Knitting Mill Creek Eco-Corridor (VA)

Grantee: The Elizabeth River Project

Grant Amount: \$500,000

Establish the Knitting Mill Creek Eco-Corridor along one of the Elizabeth River's most impacted urban tributaries. Project will engage local homeowners and businesses to adopt green infrastructure and coastal resilience practices, implement showcase restoration projects at the Elizabeth River Project's Ryan Resilience Lab, and engage Norfolk State University to support enhanced community outreach and engagement in the surrounding community.

Washington, D.C.

Correcting Sewer Systems to Benefit Anacostia Watershed Communities (DC)

Grantee: Department of Energy and Environment

Grant Amount: \$180,000

Reduce sanitary sewer discharges in environmental justice communities in the Anacostia River watershed through an innovative approach to community engagement in planning, prioritizing, and financing sanitary sewer corrections.

Planning for Rock Creek Park's Forests (DC)

Grantee: Rock Creek Conservancy

Grant Amount: \$74,900

Create a landscape-scale plan to restore and maintain the forests in the Rock Creek watershed while engaging community members in people-powered restoration to sustain this restoration beyond Rock Creek Park's borders.

West Virginia

Restoring Mine Lands through More Efficient Distribution Agricultural Nutrients (WV)

Grantee: West Virginia National

Guard Foundation

Grant Amount: \$499,100

Improve transport of poultry litter from West Virginia's Chesapeake Bay watershed to enhance abandoned mine reclamation efforts across the state. Project will support mine reclamation efforts on 180 acres for the Patriot Apple Project benefiting ex-coal miners and veterans in the region.

Watershed and Habitat Restoration at Seneca Rocks to Enhance Recreation and Community Benefits (WV)

Grantee: Trout Unlimited

Grant Amount: \$500,000

Enhance eastern brook trout populations, improve watershed conditions, and expand recreation and educational opportunities in the Spruce Knob Seneca Rocks National Recreation Area. Project will reconnect one and a half miles of brook trout habitat and an additional mile of riparian forest habitat.

Multiple States

Accelerating Riparian Forest Buffer Implementation in the Mason Dixon Region (MD, PA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000

Develop and pilot a conservation incentive program that accelerates the adoption and establishment of riparian forest buffers by agricultural producers in Maryland and Pennsylvania. Project will restore 35 miles of critical riparian habitat and result in the planting of nearly 50,000 trees.

OUR 2022 GRANTS

Building and Advancing Capacity of Chesapeake Nonprofits to Accelerate Water Quality Improvements (DC, DE, MD, NY, PA, VA, WV)

Grantee: National Wildlife Federation

Grant Amount: \$286,500

Coordinate efforts to create a more inclusive and diverse Chesapeake Bay watershed restoration movement and support regional and watershed-wide convenings to improve collaboration and impact among nearly 300 nonprofits working toward Bay restoration.

Eastern Brook Trout Habitat Assessments for Strongholds in the South Branch of Potomac (VA, WV)

Grantee: Trout Unlimited

Grant Amount: \$74,800

Fill data gaps in brook trout presence, aquatic organism passage, and instream and riparian habitats to further watershed restoration plans for brook trout strongholds in the South Branch and the North Fork of the south Potomac. Project will improve understanding of brook trout patch dynamics, an updated data set for aquatic organism passage project prioritization, and regional watershed scale restoration plans to further prioritize restoration efforts.

Embracing and Promoting Afforestation in the Riparian Corridor and Beyond (PA, NY)

Grantee: Tioga County Soil and Water Conservation District of New York

Grant Amount: \$500,000

Accelerate tree planting in riparian and upland areas of the Upper Susquehanna watershed through proven programs and existing soil and water conservation district partners, while expanding community partnerships for tree planting and stewardship. Project will result in 30,000 new trees planted across more than 100 acres.

Establishing a Chesapeake Capacity Builders Institute to Expand Capacity for Clean Water (DC, DE, MD, NY, PA, VA, WV)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$399,100

Increase regional capacity to implement watershed restoration and conservation projects more efficiently and effectively by establishing and Chesapeake Capacity Builders Institute. Project will engage 130 watershed stewardship leaders in piloting efforts to build and enhance collective watershed project management.

Expanding Rotational Grazing through the Mountains to Bay Grazing Alliance (MD, PA, VA, WV)

Grantee: Chesapeake Bay Foundation

Grant Amount: \$493,800

Expand the adoption of rotational grazing practices among dairy and livestock operations in the Shenandoah Valley, western and central Maryland, and southcentral Pennsylvania. Project will utilize conservation and farm networks to improve grazing management on 1,200 acres.

Green Infrastructure Training for Latino Landscape Professionals of the Chesapeake Bay Watershed (MD, DC, VA)

Grantee: ecoLatinos

Grant Amount: \$252,700

Develop and implement a culturally relevant Spanish-language green infrastructure training for landscape professionals across Maryland, Virginia, and the District of Columbia. Project will train 36 professionals and serve as a replicable model for engaging new communities in regional watershed restoration efforts.

OUR 2022 GRANTS

Implementing the Delmarva Restoration and Conservation Network Strategic Plan (DE, MD, VA)

Grantee: Lower Shore Land Trust

Grant Amount: \$38,400

Support the coordination of the Delmarva Restoration and Conservation Network, a cross-sector collaborative working to address habitat loss, climate resiliency, under-resourced communities and water quality improvement on the Delmarva Peninsula. Project will directly support implementation of the Network's Conservation and Restoration Strategic Action Plan.

Improving Nutrient Management Programs through Collaboration (DE, MD, NY, PA, VA, WV)

Grantee: Sustainable Chesapeake

Grant Amount: \$65,900

Improve nutrient management program delivery by facilitating collaboration among nutrient management leaders throughout the Chesapeake Bay region. Project will improve collaboration among land grant universities in the region, working across state lines with those leading the development of agricultural nutrient management recommendations across the watershed.

Jumpstarting Organic Valley's Dairy Sustainability Strategy in the Chesapeake Bay Watershed (MD, NY, PA, VA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$500,000

Partner with Organic Valley to provide cost-effective agricultural conservation practices to manage agricultural runoff, improve water quality and wildlife habitat, and address climate change on organic dairy farms in the Bay watershed. Project will restore five miles of riparian habitat and engage an additional 200 volunteers in implementing on-farm conservation practices.

Protecting and Restoring Forest and Grasslands (VA, WV)

Grantee: Rolling Ridge Conservancy

Grant Amount: \$265,000

Implement a forest stewardship plan and grassland restoration on 1,795 acres of forest and floodplain along the Shenandoah River at the Virginia-West Virginia border. Project will permanently protect 100 acres and convert an additional 60 acres of turf and invasive plants to native grassland habitat.

Reconnecting and Restoring Brook Trout Strongholds in the South Branch of the Potomac River (VA, WV)

Grantee: Trout Unlimited

Grant Amount: \$495,300

Enhance and increase eastern brook trout populations in the South Branch of the Potomac River in Virginia and West Virginia. Project will reconnect 16 miles of high-quality headwaters habitat and restore nearly nine miles of riparian habitat through livestock exclusion and riparian forest buffers.

Riparian Rangers Volunteer Program (PA, MD)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$75,000

Expand the successful Riparian Rangers program by training 100 new volunteers on riparian forest buffer establishment maintenance while providing additional educational opportunities and resources. Project will result in three new regional branches of the Riparian Rangers program within priority watersheds in Maryland and Pennsylvania, which will enable enhanced stewardship of around 250 acres of riparian forest buffer plantings.

OUR 2022 GRANTS

Riparian Rangers Volunteer Program (PA, MD)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$75,000

Expand the successful Riparian Rangers program by training 100 new volunteers on riparian forest buffer establishment maintenance while providing additional educational opportunities and resources. Project will result in three new regional Branches of the Riparian Rangers program within priority watersheds in Maryland and Pennsylvania which will enable enhanced stewardship of around 250 acres of riparian forest buffer plantings.



Chesapeake Innovative Nutrient and Sediment Reduction Grants Program

Accelerating Riparian and Upland Best Management Practices to Improve Water Quality (VA)

Grantee: Alliance for the Shenandoah Valley

Grant Amount: \$1,000,000

Accelerate the installation and maintenance of riparian and upland best management practices to improve water quality in the Shenandoah Valley of Virginia. Project will establish innovative demonstration farms, share implementation costs, provide technical support, and use data and local knowledge to evaluate other watersheds in order to replicate the coordinated Smith Creek Watershed Partnership approach to improving water quality.

Accelerating Water Quality Improvements and Supporting Conservation Collaboratives (MD, PA, VA, WV)

Grantee: Trout Unlimited

Grant Amount: \$979,700

Support restoration efforts and the assessment and further development of conservation collaboratives, programs, and services within the Chesapeake Bay watershed region. Project will result in improved water quality in focal watersheds, increased capacity to deliver watershed scale conservation services in the region, engagement of future environmental stewards, and the long-term monitoring and maintenance of conservation projects.

Collaborating to Accelerate Water Quality Improvement in the Rappahannock River Watershed (VA)

Grantee: Friends of the Rappahannock

Grant Amount: \$999,400

Cultivate the growth, participation, and capacity of the Rappahannock River Roundtable partnership and measurably accelerate the geographic scale of implementation for priority conservation and water quality improvement practices in the Rappahannock River watershed. Project will increase the participation and accessibility of cost-share programs and project implementation through financial incentives, inclusion of the carbon market, increased technical assistance and enhanced outreach.

Establishing a Model for Equitable Restoration of Urban Tributaries of the Chesapeake Bay (VA)

Grantee: Elizabeth River Project

Grant Amount: \$1,000,000

Explore creative approaches to motivate sustainable engagement of environmentally and economically vulnerable communities in equitable restoration of urban tributaries of the Chesapeake Bay. Project will implement 10 on-the-ground projects such as living shorelines, rain gardens, conservation landscaping, and tree plantings in the targeted communities to reduce pollutants while improving the capacity of social marketing programs to reach under-resourced communities.

OUR 2022 GRANTS

Fueling Natural Filter Restoration in the Headwaters of the Upper Susquehanna Watershed (NY, PA)

Grantee: Tioga County Soil and Water Conservation District of New York

Grant Amount: \$1,000,000

Provide flexible funding and technical assistance opportunities for natural filter restoration and protection in the Upper Susquehanna Watershed of New York and Pennsylvania. Project will identify and implement high priority projects that provide ecosystem benefits such as improving habitat and addressing water quality and quantity.

Nutrient and Sediment Reduction through Healthy Soils and Regenerative Agriculture (MD)

Grantee: Future Harvest

Grant Amount: \$763,200

Use partnerships to catalyze nutrient and sediment reduction through healthy soils and regenerative agriculture in Maryland. Project will combine entry-level educational opportunities; advanced peer-to-peer learning via knowledge cooperatives; financial incentives for practice implementation; state-specific economic case studies; and vouchers for technical assistance to support the adoption of soil health management systems (SHMS) and drive demand for soil health resources.



Outcomes-Based Model for Accelerating Pollutant Reductions (MD,PA)

Grantee: Alliance for the Chesapeake Bay

Grant Amount: \$1,000,000

Pilot an outcomes-based model for accelerating pollution reductions in Maryland and Pennsylvania. Project will engage partners and landowners to implement at least 115 acres of riparian forest buffer and upland reforestation projects and work with at least 12 dairy farmers to implement agricultural best management practices including field soil health practices, barnyard stabilization, heavy use areas, grassed waterways, manure storage facilities and other practices.

Scaling Up Biochar Applications for Accelerated Stormwater Runoff Reduction in the Chesapeake Bay

Grantee: Center for Watershed Protection

Grant Amount: \$699,500

Accelerate the rate and scale at which biochar amendments are applied in the urban landscape to support runoff reduction and improved water quality across the Chesapeake Bay watershed. Project will 1) mature the partnership structure to ensure effectiveness and longevity, 2) deliver unified education and outreach around the benefits of biochar, 3) secure new partners who are committed to formalizing the infrastructure for widespread use of biochar amendments, and 4) provide technical assistance to partners on sourcing and using certified biochar in a variety of urban applications.

OUR 2022 GRANTS

Chesapeake Bay WILD Grants Program

Maryland

Protecting Habitat Migration Corridors Between Blackwater and the Nanticoke River Watershed (MD)

Grantee: Eastern Shore Land Conservancy
Grant Amount: \$500,000

Complete conservation easements in a critical wildlife habitat and marsh migration corridor between Blackwater National Wildlife Refuge and the Nanticoke River watershed. Project will permanently protect 300 acres through strategic landowner outreach efforts and support long-term resilience of wildlife populations and critical ecosystems of Maryland's Lower Eastern Shore.

Restoration Planning for Northwest Creek (MD)

Grantee: Alliance for the Restoration of Northwest Creek (ARNC)
Grant Amount: \$75,000

Design and permit a restoration plan for Northwest Creek, a 100-acre tidal inlet on Kent Island that has been plagued with deteriorating water quality and habitat conditions for many years. Project will create new habitat for shallow water fish species and protected breeding grounds for other wildlife via the creation of marsh habitat and living shorelines.

Pennsylvania

Implementing Conservation Easements and Resource Management Planning (PA)

Grantee: WeConservePA
Grant Amount: \$150,000

Support local Pennsylvania land trusts in implementing conservation easements and developing resource management plans to inform long-term restoration and stewardship of conserved habitat. Project will permanently protect 980 acres across more than a dozen individual land conservation projects.

Implementing Forest Management Practices to Promote Resiliency and Habitat (PA)

Grantee: Indiana University of Pennsylvania Research Institute
Grant Amount: \$341,200

Design and implement crop tree management and variable density thinning practices in young forest stands to improve the resiliency of oak forests and enhance habitat structure for species of greatest conservation need. Project will result in 800 acres of forest stewardship activities, development of management practice guidelines, and outreach and training targeting agency and consulting foresters.



Improving Aquatic Organism Passage on Central State Gamelands (PA)

Grantee: Western Pennsylvania Conservancy
Grant Amount: \$500,000

Complete aquatic organism passage projects on state game lands to benefit brook trout and other important and at-risk aquatic species. Project will result in 20 additional miles of accessible stream habitat through assessment and design, implementation, and monitoring of culvert replacement projects.

Protecting Critical Habitat and Water Quality in Western Tributaries (PA)

Grantee: Western Pennsylvania Conservancy
Grant Amount: \$492,700

Permanently protect forestland, wetland, and high-quality riparian corridors that serve as critical habitat for species of greatest conservation need. Project will work with private foundations, state agencies, and landowners to conserve 1,000 acres across central Pennsylvania.

OUR 2022 GRANTS

Virginia

Establishing a Freshwater Mussel Restoration Plan in the James River Basin (VA)

Grantee: James River Association

Grant Amount: \$51,800

Create a James River Basin Freshwater Mussel Restoration Plan that will serve as an important tool for state government departments, federal agencies, nonprofits, and funders in mussel restoration efforts in the James River. Project will include a proactive restoration plan to guide planting activities, to identify areas for further surveys and investigation, and to establish strategic restoration objectives for the James.

Establishing a Plan for Freshwater Mussels (VA)

Grantee: Chesapeake Bay Foundation

Grant Amount: \$73,800

Increase habitat connectivity and quality for at-risk and federally-listed populations of native freshwater mussels by working with partners to create a Mussel Richness Map for Virginia and a conservation buffer layer that will prioritize buffer placement to best enhance mussel habitat. Project will then convene partners to showcase these new tools and resources and facilitate coordination in support of freshwater mussel restoration and ongoing water quality restoration initiatives.

Short Hills Indigenous Wetland Assessment and Restoration Plan (VA)

Grantee: NDPonics

Grant Amount: \$75,000

Develop a wetland assessment and restoration and management plan for an indigenous-owned mountaintop forestland in Rockbridge County, Virginia. Project will provide essential data for critical future implementation efforts aimed at restoring wetland conditions to protect endangered species and migratory bird habitat while also preventing future aquatic ecosystem failure.

Waterfowl Management Capacity at the Doe Creek Wildlife Management Area (VA)

Grantee: Ducks Unlimited

Grant Amount: \$476,400

Enhance water management capabilities at Doe Creek Wildlife Management Area on Virginia's Eastern Shore through new water control structures and resilience improvements. Project will improve management of 147 acres of tidal wetlands for waterfowl and recreational benefit.

West Virginia

Leveraging Hunt Clubs and Conservation Hubs to Improve Water Quality and Wildlife Habitat (WV)

Grantee: Cacapon and Lost Rivers Land Trust

Grant Amount: \$275,900

Expand wildlife habitat hubs and corridors in West Virginia's Chesapeake Bay watershed through permanent land protection and engagement of hunt clubs. Project will protect 1,000 acres of critical habitat for eastern brook trout, freshwater mussels, several federally endangered species, and 60 other species of greatest conservation need.

Restoring James Spiny mussel Along Potts Creek (WV)

Grantee: The West Virginia Land Trust

Grant Amount: \$499,800

Preserve and restore one of two remaining populations of the endangered James spiny mussel along the South Fork of Potts Creek. Project will permanently protect a 40-acre tract, implement conservation practices, support a variety of wildlife and restore sections of Potts Creek that are critical to the resident James spiny mussel population.

OUR 2022 GRANTS

Chesapeake Bay Most Effective Basins in Pennsylvania

Accelerating Conservation BMP Implementation Through the Corporate Partnership Model (PA)

Grantee: Alliance for the Chesapeake Bay
Grant Amount: \$1,000,000

Partner with corporations to implement best management practices on the Pennsylvania dairy farms that supply their milk. Project will reduce agricultural nitrogen loads and improve water quality through implementation of targeted agricultural and forest best management practices.

Creating Enrollment Incentives to Establish Grass Buffers (PA)

Grantee: Pheasants Forever
Grant Amount: \$537,800

Incentivize enrollment in existing grass buffer programs on farms in Pennsylvania. Project will reduce agricultural nutrient loading and create grassland wildlife habitat within the Chesapeake Bay watershed.

Implementation of Nitrogen Reduction Best Management Practices in Chesapeake Bay Headwaters (PA)

Grantee: Berks County Conservation District
Grant Amount: \$868,100

Provide financial support to agricultural producers for cropland conservation practices such as single and multi-species cover crops, manure injection, split rate nitrogen applications and nutrient management planning in Berks County, Pennsylvania. Project will implement agricultural conservation practices to reduce nitrogen pollution in the Chesapeake Bay Watershed.

Implementing Agricultural Best Management Practices in the Mill Creek Watershed (PA)

Grantee: Lancaster Farmland Trust
Grant Amount: \$500,000

Implement barnyard manure-handling and stream best management practices on two farms in the Mill Creek Watershed. Project work will result in the planting of over one hundred trees and will deliver efficient nitrogen pollution reduction

Implementing Comprehensive Agricultural Conservation Practices in Lancaster County (PA)

Grantee: TeamAg
Grant Amount: \$1,000,000

Implement comprehensive agricultural conservation practices needed to achieve stream delisting and Chesapeake Bay restoration on agricultural lands in priority watersheds across Lancaster County. Project will align limited resources towards delisting streams on an accelerated timeframe in catchments with the highest potential for delisting, reducing nitrogen loading by over 38,800 pounds per year.

Improving Manure and Nutrient Management in Pennsylvania's Most Effective Basins (PA)

Grantee: Sustainable Chesapeake
Grant Amount: \$999,900

Reduce nitrogen loss in Pennsylvania's most effective basins through improved manure and fertilizer management practices that benefit both farm profit and water quality. Project will work with agribusiness partners to expand adoption of liquid manure injection and precision nitrogen management on farms in Pennsylvania's most effective basins with a priority for farms located in countywide action plan priority watersheds, reducing nitrogen loading by 40,908 pounds per year.

OUR 2022 GRANTS

Increasing Nitrogen Reductions with Riparian Buffers and Agricultural Best Management Practices (PA)

Grantee: Alliance for the Chesapeake Bay
Grant Amount: \$1,000,000

Install best management practices to achieve agricultural nitrogen load reduction on farms in three counties of Pennsylvania. Project will implement riparian forest and grass buffers, livestock exclusion fencing, and barnyard practices to reduce nitrogen runoff by over 37,900 pounds per year.

Using Data to Advance the Lancaster Countywide Action Plan (PA)

Grantee: Lancaster County Conservation District
Grant Amount: \$454,900

Advance the Lancaster Countywide Action Plan (CAP) by employing a data manager and a verification coordinator to collaboratively manage data from municipalities, district staff, partnering organizations and technical service providers. Project will spur momentum for verification of practices and data management to track progress more accurately in Lancaster County, a priority area for meeting Chesapeake Bay nutrient reduction goals.





FOR ADDITIONAL INFORMATION about the Chesapeake Bay Stewardship Fund, please call us at: 202-857-0166 or visit our website at: www.nfwf.org/chesapeake

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