



NFWF

Chesapeake Bay Stewardship Fund 2018 Grant Slate

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- Altria
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- CSX
- Pennsylvania Department of Environmental Protection
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- USDA's Natural Resource Conservation Service

ABOUT NFWF

The National Fish and Wildlife Foundation (NFWF) protects and restores our nation's fish and wildlife and their habitats. Created by Congress in 1984, NFWF directs public conservation dollars to the most pressing environmental needs and matches those investments with private funds. Learn more at www.nfwf.org

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American black duck

OVERVIEW

The National Fish and Wildlife Foundation (NFWF), in partnership with the U.S. Environmental Protection Agency and the Chesapeake Bay Program, announced the 2018 round of funding for Chesapeake Bay Stewardship Fund projects. Forty-nine new Bay restoration and water quality improvement grants totaling more than \$13.1 million were awarded, leveraging nearly \$21.9 million in match from the grantees and generating a total conservation impact of nearly \$35 million.

The Chesapeake Bay Stewardship Fund is dedicated to protecting and restoring the bay by helping local communities clean up and restore polluted rivers and streams. The fund also advances cost-effective and creative solutions with financial and technical assistance to local communities, farmers and private landowners. The National Fish and Wildlife Foundation manages the Stewardship Fund in partnership with government agencies and private corporations and in close coordination with the federal-state Chesapeake Bay Program partnership. Major funding is provided by the U.S. Environmental Protection Agency through the Chesapeake Bay Program Office.

Since 1999, the Stewardship Fund has worked with the public and private sectors to deliver on-the-ground conservation successes benefiting the communities, farms, habitats and wildlife of the Chesapeake Bay region. NFWF administers the fund's two competitive grant programs, the Innovative Nutrient and Sediment Reduction Grant Program and the Small Watershed Grants Program. NFWF also makes targeted investments that support networking and information-sharing among restoration partners on emerging technologies, successful restoration approaches, and new partnership opportunities. These programs directly engage agricultural producers, homeowners, churches, businesses and others in on-the-ground restoration actions that improve the quality of life in communities throughout the watershed, while ultimately improving the health of the Chesapeake Bay.

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Oyster shell bushels delivered by the Chesapeake Bay Foundation to support oyster restoration efforts. | Credit: U.S. Army Corps of Engineers

Mountains to Bay Grazing Alliance: A Collaborative to Increase Rotational Grazing (MD, PA, VA, WV)

Grantee: Chesapeake Bay Foundation

Grant Award:..... \$850,350

Matching Funds: \$850,350

Total Amount:..... \$1,700,700

Expand and strengthen a network of private and public partners to promote the adoption of rotational grazing systems that enhance soil health, protect and improve water quality, and contribute to farm economic viability. Project will include on-farm demonstrations, peer-to-peer dialog, establishment of local grazing groups, and development of outreach materials that highlight the economic and soil health benefits of grazing.

Increase Collective Impact on the Elizabeth River through Strengthened Partnership (VA)

Grantee: The Elizabeth River Project

Grant Award:..... \$750,000

Matching Funds: \$2,558,000

Total Amount:..... \$3,308,000

Reinvigorate the Elizabeth River Project partnership to further coordinated stormwater management and ecosystem restoration in Chesapeake, Norfolk, Portsmouth and Virginia Beach, Virginia. Project will establish a leadership roundtable and summit to formally adopt a new watershed action plan, explore regional financing options, and improve coordination of green infrastructure projects at a variety of scales.

Targeted Implementation in the Chesapeake Bay Watershed through Data Analysis and Partnership

Grantee: University of Montana

Grant Award:..... \$998,094

Matching Funds: \$1,002,753

Total Amount:..... \$2,000,847

Couple proprietary databases of farmer interests with advanced behavior change models and messaging approaches to improve effectiveness of agricultural conservation outreach programs in the Chesapeake Bay Watershed. Project will leverage watershed-wide data sets and coordination with local nonprofits, conservation organizations, and social scientists to increase adoption

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of targeted best management practices in priority subwatersheds.

Formalizing and Growing the Middle and Upper James Riparian Consortium (VA)

Grantee: James River Association

Grant Award:..... \$750,000

Matching Funds: \$1,683,430

Total Amount:.....\$2,433,430

Formalize an existing multi-party partnership structure designed to improve coordination and delivery of riparian conservation programs and practices in the middle and upper James River watershed. Project will utilize a consortium model to build individual organizational capacity of partners, coordinate project prioritization, and implement 200 acres of riparian buffers.

One Water Partnership (MD, PA)

Grantee: Interfaith Partners for the Chesapeake

Grant Award:..... \$1,000,000

Matching Funds: \$1,093,423

Total Amount:.....\$2,093,423

Replicate proven partnerships with secular and religious institutions, and engage new partners in strategic regions to scale up the engagement of the faith community in watershed restoration efforts in Maryland and Pennsylvania. Project will engage nonprofits, local governments, citizen stewardship groups, and faith-based institutions to enable 36 congregations to install green infrastructure with measurable impacts on local water quality.

Turkey Hill Clean Water Partnership: Building a Market-Driven Model for Conservation Action (PA)

Grantee: Alliance for the Chesapeake Bay

Grant Award:..... \$1,000,000

Matching Funds: \$1,028,000

Total Amount:.....\$2,028,000

Build on existing partnership with Turkey Hill Dairy and the Maryland and Virginia Milk Producers Cooperative Association to accelerate conservation planning and practice implementation. Project will provide farmers with technical and financial assistance necessary to meet Turkey Hill commitments for sustainable milk production.

Envision the Choptank: Expanding and Scaling-Up Regional Partnership (MD, DE)

Grantee: Shorerivers

Grant Award:..... \$999,629

Matching Funds: \$1,110,800

Total Amount:.....\$2,110,429

Shorerivers will strengthen and expand the Envision the Choptank partnership by identifying specific locations for best management practices on agricultural lands,

providing training and education on high impact restoration techniques, and expanding landowner partnerships and technical assistance offerings. Project will continue to build the partnership of 17 regional and state organizations while implementing 250 acres of best management practices in the Choptank watershed.

Stormwater Pollutant Mitigation and Green Infrastructure at the Science Museum of Virginia

Grantee: Science Museum of Virginia Foundation

Grant Award:..... \$200,000

Matching Funds: \$582,772

Total Amount:..... \$782,772

Mitigate sewer overflow events by removing 3 acres of impervious surface, installing an advanced bioretention system, enhancing existing green stormwater infrastructure education and outreach, and developing a predictive model of future green site and stormwater management projects. Project will reduce nutrient and sediment loads discharging into the James River and will demonstrate effective stormwater management practices.

Restoration of the Eastern Oyster in the Lynnhaven River (VA)

Grantee: Chesapeake Bay Foundation

Grant Award:..... \$199,987

Matching Funds: \$157,075

Total Amount:..... \$357,062

Establish 2.5 acres of new oyster reef, construct and plant 200 reef balls, and place 5.5 million young oysters in the Lynnhaven River. The project will be conducted in partnership with Lynnhaven River Now oyster reef construction, enhancing the population of native eastern oysters and engaging approximately 500 volunteers in a wide array of hands-on oyster restoration activities.

Supporting Community-Based Municipality Stormwater Retrofit Plans in Prince George's County (MD)

Grantee: Low Impact Development Center

Grant Award:..... \$146,100

Matching Funds: \$2,500,000

Total Amount:.....\$2,646,100

Create partnerships and provide capacity to the 12 municipalities within the Anacostia Watershed to assist in meeting National Pollutant Discharge Elimination System permit requirements. Project will engage elected officials, community leaders, citizens, staff and businesses resulting in the planning, selection and design of stormwater retrofit best management practices.

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Restoration of the Eastern Oyster in the Lynnhaven River Western Branch (VA)

Grantee: Lynnhaven River Now

Grant Award:..... \$200,000

Matching Funds: \$155,000

Total Amount:..... \$355,000

Construct a 3-acre oyster reef using crushed concrete substrate, the first alternative-substrate reef, in the Lynnhaven River. Project supports an overall goal of 60 acres reef habitat in the Lynnhaven River, in partnership with the Chesapeake Bay Foundation.

Oyster, Shoreline and Stream Retoration in the Rappahannock Tidal Tributaries (VA)

Grantee: Friends of the Rappahannock

Grant Award:..... \$91,573

Matching Funds: \$78,600

Total Amount:..... \$170,173

Restore Carter's Creek and Urbanna Creek through oyster restoration on the river bottom, living shorelines and grasses to reduce shoreline erosion, and green infrastructure to address polluted stormwater runoff. Project will engage schools and community volunteers in restoration work, educating the community about the importance of water quality.

Soil Health Conservation, Engagement and Technical Assistance (MD, PA, VA)

Grantee: Stroud Water Research Center

Grant Award:..... \$199,976

Matching Funds: \$189,200

Total Amount:..... \$389,176

Partner with Cover Crop Coaching to increase access to technical expertise on soil health and increase adoption rates. Project will enable Cover Crop Coaching to direct farmer meetings, host train-the-trainer events, and increase outreach to landowners renting cropland to tenant farmers. Project will help address the shortfall of technical expertise on soil health, and will increase adoption rates of cover crops and no-till.

Lakemont Park Green Infrastructure and Urban Runoff Management (PA)

Grantee: Blair County Conservation District

Grant Award:..... \$195,000

Matching Funds: \$237,100

Total Amount:..... \$432,100

Construct green infrastructure in Lakemont Park, including three rain gardens, a vegetated permeable pavement lot, a rain water harvesting system for stormwater re-use, and a riparian buffer. Project will manage upland urban runoff and will become part of the maintenance program for the park/recreational area. The project also provides opportunity for

education and examples for additional community green infrastructure redevelopment.

Low Impact Stormwater Retrofit in the Town of Warsaw (VA)

Grantee: Northern Neck Planning District Commission

Grant Award:..... \$200,000

Matching Funds: \$1,443,550

Total Amount:..... \$1,643,550

Convert an abandoned and paved shopping center to a stormwater pond with green space, rain gardens, bioretention areas, walking trails, native plants and interpretive signage. Project will be a living and visible demonstration site that invites pedestrians into the downtown area and informs residents, students and visitors of the positive impact of green infrastructure.

Converting a Fire Pond into a Step Pool Storm Conveyance in the Town of New Market (MD)

Grantee: Town of New Market

Grant Award:..... \$150,159

Matching Funds: \$150,000

Total Amount:..... \$300,159

Retrofit the Town of New Market's fire pond, converting the pond into a step pool storm conveyance system to mitigate future flood risk. Project will capture and treat runoff from 25.8 acres of land and will improve local water quality and nutrient and sediment loads.

Green Infrastructure and Water Quality Monitoring in Gwynns Falls (MD)

Grantee: Blue Water Baltimore

Grant Award:..... \$200,000

Matching Funds: \$225,000

Total Amount:..... \$425,000

Implement green infrastructure in Gwynns Falls, planting 700 new trees and constructing stormwater retrofits to treat 2 acres of impervious surfaces. Project will engage residents on local environmental issues and will link water quality monitoring data to restoration activities at 14 non-tidal locations while studying pre- and post-pollution levels at large-scale restoration project sites.

Implementing Targeted Nutrient Management in the Shenandoah Valley and Eastern Shore (VA, MD)

Grantee: Ridge to Reefs

Grant Award:..... \$199,787

Matching Funds: \$93,378

Total Amount:..... \$293,165

Construct four denitrifying bioreactors and 3.6 acres of nontidal wetlands in priority watersheds with high nutrient loads in Maryland and Virginia. Project will improve farms environmental performance, treat legacy nutrients, and will



Blue crab

benefit American black duck wintering habitat and eastern brook trout recovery.

Increasing Rotational Grazing and Crop Cover Practices through Farmer and Community Engagement (PA)

Grantee: Capital Resource Conservation and Development Area Council

Grant Award:..... \$194,431

Matching Funds: \$68,910

Total Amount:..... \$263,341

Support the adoption of cover crop grazing and other rotational grazing practices both on four study farms and an additional six to 10 farms, transitioning land to rotational

grazing. Project will result in 200 acres of best management practices and innovation in rotational grazing.

Fish Passage Improvement and Culvert Replacement in the Upper Sinnemahoning Creek Watershed (PA)

Grantee: Western Pennsylvania Conservancy

Grant Award:..... \$136,466

Matching Funds: \$115,787

Total Amount:..... \$252,253

Replace four culverts at priority locations for native brook trout populations in the upper Sinnemahoning Creek watershed. Project will result in 4 miles of stream opened to fish passage and restored.

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Engaging Local Landowners in

Living Shorelines and Shoreline Management (VA)

Grantee: Middle Peninsula Planning District Commission

Grant Award:..... \$199,914

Matching Funds: \$70,000

Total Amount:..... \$269,914

Target landowners with contiguous repetitive loss properties to create a 500 to 700-foot stretch of living shoreline and develop rural coastal flooding resiliency plans utilizing sand from other dredging projects. Project will improve coastal resiliency and mitigation efforts, while simultaneously improving water quality and managing shoreline erosion and marsh loss.

Sustainable Streamside Buffer

Establishment in the Upper Susquehanna (NY)

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

Grant Award:..... \$200,000

Matching Funds: \$66,000

Total Amount:..... \$266,000

Support the Upper Susquehanna Coalition Buffer Program to plant additional riparian buffer acreage and facilitate management on riparian buffer practice acres. Project will educate and manage riparian buffer stewards to evaluate and assess buffers throughout the watershed to determine plant survival and management needs and to facilitate management activities.

PROJECT LiNK: Stormwater Management in Shenandoah Towns (VA)

Grantee: Town of Woodstock

Grant Award:..... \$200,000

Matching Funds: \$67,155

Total Amount:..... \$267,155

Construct two biofiltration projects, incorporate permeable pavers into a retrofit of court square area, and foster broader adoption and better maintenance of stormwater facilities by the localities in the Shenandoah River Friendly Towns collaboration through a series of related outreach and training efforts. Project will demonstrate benefits of green infrastructure in Shenandoah localities.

Stream Restoration and Brook Trout Habitat Improvement in the Cohocton River (NY)

Grantee: The Nature Conservancy

Grant Award:..... \$178,076

Matching Funds: \$64,060

Total Amount:..... \$242,136

Improve two culverts, conduct streambank restoration on a key tributary, and increase river management capacity training and continuous water quality monitoring to inform strategic interventions in the watershed. Project will improve

brook trout habitat and increase connectivity to and between already identified high-quality eastern brook trout habitat.

Stream and Habitat Restoration in

Kings Branch Flat Creek Greenway Natural Area (MD)

Grantee: South River Federation

Grant Award:..... \$199,650

Matching Funds: \$2,000,000

Total Amount:..... \$2,199,650

Restore a rapidly eroding 3,270 linear foot stream bank and enhance non-tidal wetlands, thereby reconnecting the floodplain. Project will reduce nutrient and sediment pollution loads, benefit local residents and visitors by protecting hiking trails in the Kings Branch Flat Creek Greenway Natural Area, and restore lost habitat and stream functions.

Freshwater Mussel Restoration in the Anacostia (DC)

Grantee: Department of Energy and Environment

Grant Award:..... \$200,000

Matching Funds: \$200,000

Total Amount:..... \$400,000

Improve and study water quality conditions in Kingman Lake, Nash Run and Watts Branch using three native species of freshwater mussels: eastern elliptio, alewife floater and eastern pondmussel. Project will educate 400 young people per year on the importance of freshwater mussels for ecosystem services and develop a freshwater mussel restoration plan for the District of Columbia based on work performed during this grant and prior to this grant.

Engaging the Plain Sect Community and Market for Clean Water (PA)

Grantee: Lancaster Farmland Trust

Grant Award:..... \$198,463

Matching Funds: \$520,000

Total Amount:..... \$718,463

Increase adoption of farm conservation practices through engaging Plain Sect community leaders, creating learning farms to provide peer-to-peer understanding and enthusiasm for conservation, and implementing best management practices on farms. Project will engage market demand for sustainability via dairy supply chain players under increasing pressure from consumers to address sustainability and create replicable model that can scale more broadly across the watershed.

Cambridge Residential Stewardship Initiative II (MD)

Grantee: Nanticoke Watershed Alliance

Grant Award:..... \$109,871

Matching Funds: \$50,588

Total Amount:..... \$160,459

Work with local partners to install 10 best management



Eastern brook trout

practices on residential lands in the Choptank River Watershed, complete a community needs survey and a stormwater financing feasibility study, and engage local decision makers in stormwater management. Project will reduce nutrient and sediment loads entering the Choptank River and increase future funding options for stormwater best management practice implementation.

Expanding Green Infrastructure, Urban Stream and Tree Canopy Restoration in Hopewell (VA)

Grantee: Chesapeake Bay Foundation

Grant Award:..... \$199,999

Matching Funds: \$96,258

Total Amount:..... \$296,257

Implement large-scale stream restoration and wetland enhancement on an eroding stream channel be, re-establish floodplain wetlands adjacent to the stream channel, plant 250 urban trees, and create “conservation corners” to install green features in residential areas with poorly draining soils. Project will engage more than 250 community volunteers and develop Meaningful Watershed Education Experiences for students to takes advantage of the large-scale stormwater management project proximity.

Securing and Expanding Brook Trout Habitat in the Cacapon and Potomac South Branch (WV)

Grantee: Trout Unlimited

Grant Award:..... \$192,934

Matching Funds: \$266,483

Total Amount:..... \$459,417

Strengthen and expand stronghold patches of brook trout by restoring in-stream and riparian habitat, mitigating barriers to aquatic organism passage, and increasing the number of agricultural producers implementing streamside best management practices. Project will restore riparian forest buffers and fish passage, recruit 200 volunteers to assist in environmental stewardship projects, and provide conservation planning and technical assistance to 30 new landowners.

Oyster Reef Restoration in the St. Mary's River Shellfish Sanctuary (MD)

Grantee: St. Mary's River Watershed Association

Grant Award:..... \$71,436

Matching Funds: \$62,797

Total Amount:..... \$134,233

Construct and install 5 acres of three-dimensional reef

structures and traditional oyster restoration structures in the St. Mary's River Shellfish Sanctuary. Project will engage 200 volunteers on site and an additional 600 STEM and public school students.

Reconnecting and Restoring Brook Trout Habitat at Public Road-Stream Crossings (VA)

Grantee: The Piedmont Environmental Council

Grant Award:..... \$199,057

Matching Funds: \$327,009

Total Amount:..... \$526,066

Replace restrictive culverts with improved stream-simulation road-stream crossings for full aquatic organism passage in Piedmont. Project will improve instream habitat by restoring 0.30 riparian acres of habitat, reconnecting 4 miles of stream, and removing two barriers to fish passage.

Land Conservation and Nutrient Management Planning in the Central Shenandoah Valley (VA)

Grantee: Valley Conservation Council

Grant Award:..... \$199,063

Matching Funds: \$103,500

Total Amount:..... \$302,563

Provide technical assistance to 10 or more farm landowners with donated conservation easements through the creation of nutrient management or resource management plans. Project will permanently protect property and secure buffers/livestock exclusion on 6-10 miles of streams and associated buffers.

Trees for Public Health in the Harris Creek Watershed (MD)

Grantee: Baltimore Tree Trust

Grant Award:..... \$200,000

Matching Funds: \$1,075,000

Total Amount:..... \$1,275,000

Expand the urban tree canopy and remove impervious surfaces, focusing on planting trees along streets in neighborhoods identified as concrete-laden, with critically low tree coverage. Project will result in 275 newly planted street trees and the removal of 8,800 square feet of impervious surface.

Micro-Bioretenention at St. Vincent de Paul Roman Catholic Church (MD)

Grantee: St. Vincent de Paul Roman Catholic Congregation

Grant Award:..... \$136,677

Matching Funds: \$120,058

Total Amount:..... \$256,735

Construct three micro-bioretenention facilities in St. Vincent de Paul Roman Catholic Church's parking lot. Project will capture and treat stormwater and pollutants that run off from the parking lot into Jones Falls River and Baltimore Harbor.

Living Shoreline and Oyster Reef Ball Restoration in the Turnbull Community (MD)

Grantee: South River Federation

Grant Award:..... \$117,125

Matching Funds: \$319,128

Total Amount:..... \$436,253

Stabilize 748 feet of shoreline through rock sills and oyster reef balls; reef balls will be placed along the bottom of rock sills and set with oyster spat to study oyster population success. Project will prevent 97 pounds of nitrogen, 56 pounds of phosphorus and 144 tons of sediment from reaching the South River annually.

Retrofitting Epping Forest's Community Clubhouse (MD)

Grantee: Epping Forest

Grant Award:..... \$131,000

Matching Funds: \$47,970

Total Amount:..... \$178,970

Retrofit Epping Forest's community clubhouse drainage ditch by widening the ditch. Project will improve water quality in the adjacent Severn River and will address localized flooding and erosion problems.

Increasing Consistent Training for Local Soil Conservation Districts (MD)

Grantee: Maryland Association of Soil Conservation Districts

Grant Award:..... \$45,296

Matching Funds: \$107,233

Total Amount:..... \$152,529

Increase the planning, design and technical assistance capacity of Maryland's soil conservation districts, which provide services in agricultural and urban landscapes through consistent training. Project will increase the capacity for conservation planning and implementation in order to increase conservation and reach Maryland's Phase III Watershed Implementation Plan goals.

Train the Trainer: Increasing Efficiency of Agricultural Outreach (PA)

Grantee: National Wildlife Federation

Grant Award:..... \$49,750

Matching Funds: N/A

Total Amount:..... \$49,750

Host a webinar series and six messaging and communications training events for agricultural outreach professionals within the Chesapeake Bay Watershed in Pennsylvania. Project will increase the efficiency of agricultural outreach professionals by providing the tools and cultural frameworks needed to influence farmers to use water-quality best management practices.

Stormwater Retrofit Design at Woodsyde Estates (MD)

Grantee: Carroll County Government - Bureau of Resource Management

Grant Award:..... \$50,000

Matching Funds: \$60,000

Total Amount:..... \$110,000

Design the retrofit of two existing stormwater management facilities in the Woodsyde Estates subdivision to provide water quality treatment for 59 acres of drainage area and design a stabilization and restoration of 1,600 linear feet of stream within the South Branch of the Patapsco River. Project design, when implemented, will improve water quality as well as provide protection of the downstream receiving stream.

Continuing Momentum to Reduce

Stormwater Pollution in the Oxford Region (PA)

Grantee: University of Maryland Environmental Finance Center

Grant Award:..... \$49,950

Matching Funds: N/A

Total Amount:..... \$49,950

Support the Oxford Regional Planning Committee in their efforts to address stormwater pollution in both the regulated and unregulated parts of municipalities. Project will develop a partner structure for program delivery and will translate pollution reduction goals to the local level while providing a sustainable financing strategy to support initiation and continued implementation of programming throughout the watershed.

Farm Resiliency Education for At-Risk Coastal and Riparian Agricultural Lands (MD, VA)

Grantee: College of William and Mary, Virginia Institute of Marine Science

Grant Award:..... \$49,994

Matching Funds: N/A

Total Amount:..... \$49,994

Host a series of workshops with to develop a strategy and work plan for managing farming landscapes, outline projects that could be undertaken for piloting practices, develop proposals for implementation, and target potential sites. Project will address farmlands at risk to rising sea levels and will bring together agricultural economists, experts on alternative cropping systems, and ecosystem specialists to provide expertise on how to transition vulnerable agricultural landscapes.

Identifying and Designing Restoration in Tier II Eastern Brook Trout Patches (PA)

Grantee: Tioga County Conservation District of Pennsylvania

Grant Award:..... \$37,640

Matching Funds: \$12,178

Total Amount:..... \$49,818

Identify, prioritize, design and permit habitat restoration

projects within two Tier II eastern brook trout patches, the Tioga River and Babb Creek. Project will enhance the ability of the Tioga County Conservation District to implement effective priority habitat restoration and sediment reduction projects, motivate individuals and local governments to implement projects, and increase benefits to water quality and eastern brook trout habitat.

Leveraging Partnership and Data in the Nanticoke for Stormwater Best Management Practices (DE)

Grantee: University of Maryland Environmental Finance Center

Grant Award:..... \$49,996

Matching Funds: N/A

Total Amount:..... \$49,996

Use existing collaborative structures in the watershed to collect and analyze data about demographics and landownership to identify needed changes and gaps. Project will assist Nanticoke Watershed Alliance in developing recommendations for stormwater management to increase participation in programs and implementation, meet total maximum daily load goals across regulated and unregulated parts of the region, and fit the communities' financing capacity.

Unassessed Waters Initiative (PA) - IV

Grantee: Western Pennsylvania Conservancy

Grant Award:..... \$50,000

Matching Funds: \$53,977

Total Amount:..... \$103,977

Conduct 1,000 fish surveys on previously unassessed streams, coordinating priorities, data collection, and data management. Project will provide data on previously unassessed streams in order to ensure proper stream classification, which is vital to successfully protecting Pennsylvania's water resources.

From Design to Construction: Scaling-Up to Meet Demand for Living Shorelines on the Lower Bay (VA)

Grantee: Environmental Concern

Grant Award:..... \$50,000

Matching Funds: N/A

Total Amount:..... \$50,000

Increase the capacity of the Elizabeth River Project for in-house design and construction of living shorelines, rain gardens, wetlands, and other green infrastructure. Project will address a lack of available and affordable construction firms to meet an increasing demand for this work on the lower bay.

Reconnecting Floodplains and Stream Restoration in the Upper Sassafras (MD)

Grantee: Shorerivers

Grant Award:..... \$47,025

Matching Funds: \$52,000

Total Amount:..... \$99,025



Blue heron

Produce a fully permitted stream and wetland restoration design that addresses an eroding 4,800 linear foot stretch of forested perennial stream in the headwaters of the Sassafras River. Project will result in designs for a stream that receives runoff from surrounding highways and a weigh station, as well as 370 acres of surrounding agricultural land.

Developing a Privately-Managed Upland Restoration Plan for Gwynns Falls (MD)

Grantee: CityScape Engineering

Grant Award:..... \$32,939

Matching Funds: \$332,000

Total Amount:..... \$364,939

Perform a minimum of 16 green infrastructure audits and individual restoration site plans, providing a capital improvement planning tool for individual property owners, including anticipated costs for design, construction and maintenance of best management practices with recommended funding mechanisms.

Expand the RVA H2O Regional Partnership to Scale-Up Green Infrastructure in Richmond (VA)

Grantee: Alliance for the Chesapeake Bay

Grant Award:..... \$999,963

Matching Funds: \$1,093,036

Total Amount:..... \$2,092,999

Enhance the structure and function of the RVA H2O regional water management partnership to implement stormwater best management practices in the City of Richmonds. Project will bring together the Richmond region government agencies and local partners to implement green infrastructure, with a specific focus on local public school sites and education.