

Watershed Assistance Grant Program 2015 Awardees

<u>Applicant</u>	<u>County</u>	<u>Abstract</u>
City of Bowie	Prince George's County	This project is for design assistance for four LID/ESD practices at a former school building owned by the City (Kenhill Center) that brings thousands of people to the building annually, to City and nonprofit offices inside and three ballfields outside. Together, these practices will provide 90% WQ volume treatment for approximately 3.2 impervious acres that are currently untreated. The City intends to construct one of the facilities as a demonstration project to increase awareness of stormwater pollution and the need for stormwater treatment. Design funds will be budgeted in FY17, and construction funds for FY18.
Ridge to Reefs	Baltimore City	Ridge to Reefs would like to help address key deficiencies related to illicit discharges in Baltimore's Patapsco and Back River watersheds by working with Blue Water Baltimore, the City of Baltimore and other local experts. The goal is to undertake an Illicit Discharge Detection & Elimination project using existing and future screening data collected by our partner Blue Water Baltimore in their volunteer-based IDDE project, Outfall Screening Blitz, and then together with the City of Baltimore identify the specific sources of pollution for future remediation.
Board of Commissioners of Calvert County, MD	Calvert	The Stormwater Section of the Calvert County Watershed Implementation Plan calls for upgrading existing failing and inadequate stormwater management facilities. The Calvert County 2014-2015 Programmatic Two-Year Milestones Report indicates that the County will continue to work with communities and submit for grant funding to upgrade stormwater facilities. The Hall Creek Watershed Implementation Plan (2011) recognized ten high priority stormwater retrofit projects. This proposal is to design stormwater retrofits at two of these high priority sites, Arbor Greene Estates and Cavalier County subdivision. At both sites the Plan calls for bioretention and infiltration BMPs.
Maryland Coastal Bays Program	Worcester	The project location is near Stockton, Worcester County, in the Chincoteague Bay watershed. The objective is to modify the pond dam using a series of rock weirs and riffles that will establish about 320 linear ft. of gentle sloping stable stream channel with riparian wetland habitat. This will provide water quality benefits (nitrogen, phosphorous and sediment reduction through increased contact time with water) and fish passage to about 5 miles of upstream freshwater habitat. The pond will be retained at the insistence of the residents. We are seeking funding to develop construction plans for the project.
City of Hagerstown	Washington	This project will involve assessment and characterization of the Hamilton Run watershed, and the subsequent development of a Watershed Action Plan that will guide future restoration efforts in the watershed.

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Alliance for the Chesapeake Bay, Inc.	Anne Arundel	We seek funding to design 273 linear feet of living shoreline, habitat restoration, restored tidal marsh and wetland, and partial mitigation of two smaller storm drains on each side of a low energy cove on Back Creek, subwatershed of the Severn River. We will provide ideal growing conditions for native Chesapeake grasses below and above MHW line providing natural habitat for aquatic species, waterfowl and fish. Eroding banks will be stabilized and invasive phragmites will be removed and replaced with native, habitat supportive species. This living shoreline project is part of St. Luke's Restoration of Nature; a comprehensive watershed restoration project.
Pigtown Main Street	Baltimore City	Pigtown Main Street proposes Phase II (completion of Parts I, II, III and IV) of a design study of green infrastructure facilities along Washington Boulevard in Pigtown. These designs will leverage Phase I funding to study and design sidewalk bumpouts to accommodate green infrastructure/stormwater and pedestrian enhancements. These bumpouts are desired to replace impervious surfaces with native plants and vegetation. Stormwater bumpouts are a BMP for their ability to filter runoff and improve the quality of the runoff entering the Chesapeake Bay and advance the goals of the Baltimore City MS4 and WIP to reduce existing impervious area by 20%.
Harford County Soil Conservation District	Harford	Harford County Soil Conservation District with Ecotone intends to use this money to pay for 4 unique designs to improve water quality and habitat that will incorporate stream restoration, wetland restoration, and/or shallow water wetland creation. While these projects are not specifically identified in the action plan, they are within the Deer Creek Watershed, and are consistent with the goals of the Deer Creek Watershed Restoration Action Strategy prepared by the Harford County Department of Planning and Zoning. These projects will meet Natural Resource Conservation Service practice goals and the ultimate restoration efforts will go towards Agriculture Watershed Implementation.
Sassafras River Association	Kent	This project addresses an eroding forested shoreline along a rural waterfront community on the sediment choked Swantown Creek (Sassafras River). The project seeks to create 1500+ feet of living shoreline and 60,000 square feet of freshwater tidal marsh habitat while halting erosion and sedimentation, and promoting resiliency to sea level rise. This work, located in a 2016 High Priority sub watershed based on the SPARROW model, is consistent with the Kent County Phase II WIP priorities as well as the 2009 EPA-approved watershed plan for the Sassafras River.

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University of Maryland Baltimore County	Montgomery	The proposed project supports site assessment and development of 100% engineering plans for permitting and construction bids for a green infrastructure cluster on the Northwest Branch, Anacostia River. The project removes ~14,000 s.f. of impervious pavement and diverts runoff from Randolph Rd. into a series of floodplain treatment wetlands. ~50,000 s.f. of riparian forest restoration and ~500 linear feet of Anacostia streambank restoration complement the stormwater diversion and treatment. Design work will be conducted in collaboration with Montgomery Parks resulting in a full application for construction funding to the Chesapeake and Atlantic Coastal Bays Trust fund in 2016.
Wicomico County	Wicomico	The Wicomico County Airport Stormwater Retrofit project seeks to utilize momentum and lessons learned from the design of the stormwater retrofit of the stormwater basin at the Salisbury-Ocean City-Wicomico Airport parking lot to retrofit drainage ditches on Airport and County owned land. These ditches currently receive untreated stormwater runoff from the airport, the Quail Ridge community, and Walston Switch Road and provide significant opportunity to infiltrate and filter stormwater runoff. The County intends to convert the ditches to bioswales with subsurface woodchip beds to increase nitrogen reductions.
South River Federation	Anne Arundel	The Killarney House & Neighbors Community BMP project, located in the Beards Creek subwatershed of the South River, will address polluted stormwater runoff traveling across five commercial and residential properties. Created forested wetlands, bioretention swales, and a reforestation buffer will be installed as part of the series. This project will assist in the conversion of stormwater to groundwater, stripping runoff of its erosive energy as well as nutrients and sediment.
Commissioners of Ridgely	Caroline	This project will fund the identification, evaluation, prioritization, and design of a variety of water quality facilities at Martin Sutton Park. Facilities would likely include shallow/gravel wetlands, rain gardens and micro-bioretention, bio-swales, rainwater harvesting (cisterns), and planted buffer yards. The location of these facilities at a public park presents a variety of opportunities for community involvement and education about water quality and the health of the Chesapeake Bay. The overall goal of these water quality retrofit projects is to meet several of Caroline County's current and future 2-year WIP milestones, part of an overall effort to help restore the Bay.

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Cecil County, Maryland	Cecil	This project will fund the engineering design of high-priority stormwater management water quality projects identified in the "Northeast River Watershed Assessment" and the "Lower Susquehanna River and Furnace Bay Watershed Assessment." The location of these facilities on various public school properties presents a variety of opportunities for community involvement and education about water quality and the health of the Chesapeake Bay. The overall goal of these water quality retrofit projects is to meet several of Cecil County's current and future 2-year WIP milestones, part of an overall effort to help restore the Chesapeake Bay.
Talbot County Government	Talbot	Talbot County is requesting \$75,000 for the design of four projects, three projects involves the reduction of non-point source pollutants from storm water runoff from impervious pavement at three county facilities. The three design efforts will develop plans and specifications for bioretention facilities at these locations. The fourth project would provide the design of a template to be used to correct erosion problems and design new stormwater treatment systems for sediment control and nutrient reduction at the outfalls of the County's cross drainage culverts. Of the top 55 culverts needing repairs, 18 were identified with severe outfall erosion problems.
Spa Creek Conservancy (SCC)	Anne Arundel	Restore the a critical source of sediment and pollutants to Hawkins Cove, Spa Creek. Restore a +/- 1125 foot long perennial stream extends south from the tidal interface. A +/- 350 foot long perennial/intermittent stream also extends west from the main stem. Restore short, ephemeral channels and seven stormwater outfalls in poor condition branch off of these streams will be restored. All stream channels are incised and disconnected from their adjacent floodplain, where present, to the degree that the floodplain are dysfunctional. There are two undercut exposed sewer pipe crossing the eroding channel that must be dealt with near-term.
Round Bay Community Association	Anne Arundel	This project is in the upland area of Round Bay, immediately downstream of the intersection of Tower Road and Revell Road. An integrated design of infiltration basins, raingarden enhancement, removal of ~650 sf of impervious surface, small step-pool-conveyance and large areas of increased vegetation are included in the plan. Design of multiple BMPs in the steeply sloped paper-road that runs from 10 Revell Road to 100 Revell Road, such as step-pool-conveyance, reforestation and bioretention are also included. This is a combined drainage area that provides a direct channel for stormwater to flow to the Severn River.

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Tanglewood Homeowners Association	Howard	Tanglewood Homeowner's Association would like to install 4 bio-retention facilities and pervious paving to improve storm water management on its 4.3 acres parcel in Columbia, Maryland. An environmental site design was prepared by Civil Design Services, LLC in 2014. The purpose of this grant is to complete revisions to the original Site Development Plan and get final approval from Howard County to proceed with the project. This will entail completing a geotechnical study, execution of a Developer's Agreement with Howard County and final approval of approved redline revisions to the original Site Development Plan.
Town of Oxford	Talbot	This request is for Project Design of a series of Stormwater Management Retention Ponds/Swales, including hydrology, survey, development plans, and specs, to accommodate and filter stormwater runoff from agricultural and urban land prior to discharge into Town Creek. The design will include a series of retention areas, with a new Retention Pond between a 13-acre agricultural field and a recently improved bio swale, leading to a second new Retention Pond at a midpoint between the ag land and the creek and the reconstruction/enlargement of an existing Bio Swale along South Morris Street.
The Episcopal Church of the Holy Covenant	Baltimore City	The Church of the Holy Covenant, 5767 The Alameda is in Northeast Baltimore. The grounds of the church are hilly with a significant amount of impervious surface, producing a large amount of stormwater runoff. Our goal is to correct this problem by installing rain gardens to collect most of the runoff. Additionally, we want to provide beautification to the church and the neighborhood. We want to lead by example to the community that we are in.
Anne Arundel County	Anne Arundel	A goal of Anne Arundel County's WIP is to reduce nitrogen loads from septic systems by 45%. To meet that goal the Department of Public Works will need to convert roughly 20,000 systems to public sewer. Concurrently, the County Health Department has deemed certain areas of the county "problem areas" which contain approximately 5,600 poorly functioning septic systems. This grant will hire a qualified consultant to compile input from the Department of Public Works and the Health Department, analyze existing data, and research funding opportunities to prioritize problem areas to be targeted for system conversion to reduce countywide nitrogen loads.
City of Havre de Grace	Harford	GIS mapping of City stormwater management infrastructure (with detailed information on condition) and integration into existing city-wide software program for MS4 permit compliance.

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Govans Presbyterian Church	Baltimore City	Govans Presbyterian Church is seeking to design a responsible plan for stormwater management on our church property. We hope to reduce the amount of hard/impervious surface by strategically changing portions of it to pervious paving. We also hope to improve stormwater management by adding a rain garden, a micro-bioretenion system, rain barrels and planting additional trees.
Howard County, Maryland	Howard	Howard County proposes to design a large bioretention area at the Trinity School (4985 Ilchester Road, Ellicott City, MD 21043). The bioretention area will capture most of the runoff from the 8-acre, 32% impervious campus. In addition to the obvious water quality benefits that will be provided by this practice, this bioretention area will serve as an excellent demonstration site for the County's Nonprofit Partnership Program.
Harford County, Maryland	Harford	The Anita C. Leight Estuary Center (ACLEC) Parking Lot Retrofit Project will infiltrate stormwater, increase wildlife habitat, and educate visitors about the benefits of permeable paving, bioretention, and bioswales. As a research and education facility, ACLEC is a component of the Chesapeake Bay National Estuarine Research Reserve in Maryland (CBNERR) located on Otter Point Creek, a tributary to the Bush River. This comprehensive stormwater redesign will transform the Center's traditional impervious parking area into an attractive stormwater facility, significantly reducing downstream erosion and flooding while decreasing nutrient and sediment inputs to receiving waters.
Back Creek Conservancy, Inc.	Anne Arundel	Through this project, the Back Creek Conservancy will develop an effective and implementable Back Creek, Annapolis, Watershed Action Plan by conducting a comprehensive assessment of the watershed and the creek's water quality. In association with the Center for Watershed Protection and local partners, the Conservancy will review existing watershed plans and data, conduct field assessments, implement expanded water quality monitoring, mobilize stakeholders through social media and community meetings, and draft and disseminate the Watershed Action Plan. The goal is widespread awareness and support for fundable projects in the Back Creek watershed that contribute to the City of Annapolis's WIP.
City of Frederick	Fredrick	Rock Creek is a small tributary of Carroll Creek, a major feature through the center of downtown Frederick. The proposed restoration site is in Waterford Park, just west of its confluence with Carroll Creek. Rock Creek is severely eroded for much of its length through Waterford Park and is bordered on its south side by condos and on its north by an abandoned sewer line. The project is a challenge, but is a priority for the City because of its proximity to homes and the value it provides to the community.