

## FY2019 Coastal Zone Grants (Oct 1, 2019 – Mar 31, 2021)

Project title	Grantee	Amount	Summary
<b>Delaware Estuary Coastal Zone</b>			
Delaware Estuary Coastal Zone Management Implementation Program	Delaware Valley Regional Planning Commission	\$45,000	Implement the Coastal Management Program in the Delaware Estuary Coastal Zone that includes Delaware, Philadelphia and Bucks counties.
Tacony Boat Launch Design Development and Community Engagement	Riverfront North Partnership	\$50,000	This project will engage the community to produce a vetted concept plan and identify partnerships, in addition to creating a package of design development documents and cost estimates for restoration of the Tacony Boat Launch and its new trailhead park. The current site is a little used park property in poor condition.
Bartram's Mile Fishing Pier Design	Schuylkill River Development Corporation	\$44,500	Develop design drawings and documentation needed to rehabilitate an abandoned industrial pier along Bartram's Mile segment into a usable fishing and sightseeing pier.
South Philadelphia Wetland Park Planning Project	Delaware River Waterfront Corporation	\$50,000	Develop a conceptual design of an innovative park, featuring restored wetlands set within unused and disrepaired pier structures of the Delaware River in South Philadelphia.
Inclusion of Freshwater Mussel Pens in Pilot Living Shoreline	Partnership for the Delaware Estuary	\$50,000	Study to determine whether beds of freshwater mussels can be incorporated into living shorelines in the urban, freshwater tidal zone of the Schuylkill River. This project implements the first phase of a previously funded grant.
Croydon Woods Preserve "Walk Softly on the Earth" Experiential Video	Heritage Conservancy	\$24,375	Produce a virtual video tour of the Croydon Woods Preserve to educate students and the general population. The video will be designed for easy access by the general public to serve as an environmental educational tool for schools and municipalities.
Glen Foerd Poquessing Creek and Delaware River Shoreline Planting Plan	Glenn Foerd Conservation Corporation	\$16,690	Develop a master planting plan for the property along the Poquessing Creek and Delaware River shoreline. The restoration will increase tree, understory, and meadow communities, improve fish and wildlife habitat, and enhance environmental education and recreational benefits.
A Riverfront Classroom on the Schuylkill: Planning Hands-On Education and Science Infrastructure	John Bartram Association	\$50,000	Plan and design a new hands-on watershed education facility and science classroom on the Schuylkill River to complement the forthcoming freshwater mussel hatchery at Bartram's Garden along the Schuylkill River.
Southeastern Pennsylvania Coast Day 2020	Partnership for the Delaware Estuary	\$39,401	Conduct Pennsylvania Coast Day 2020 events to educate the public about coastal recreation, historic sites, and public access.
Coastal Cleanups Coordination/Promotion in the Delaware Estuary	PA Cleanways dba Keep Pennsylvania Beautiful	\$20,000	Conduct community cleanups and marine debris removal in the Delaware Estuary.

**Lake Erie Coastal Zone**

Lake Erie Coastal Zone Coordination & Technical Assistance	County of Erie	\$70,000	Coordination and technical assistance with Lake Erie Coastal Zone projects
Lake Erie Coastal Zone Administration of Bluff Recession Setback Act	County of Erie	\$9,000	Assist Lake Erie coastal communities in administering the Bluff Recession and Setback Act of 1980.
Lake Erie Watershed Keepers	Erie Times-News in Education	\$50,000	Erie Times-NIE and PA Sea Grant will provide educational resources/service learning activities for students/citizens to restore, conserve, and protect shared Coastal Zone resources. Articles/photos/lesson plans provide 60,000 plus readers, 6,000 students, 140+ teachers, 70+ schools, and 12 districts free resources for local "place based" science to meet Environment/Ecology standards.
The Evaluation of Geographical Sources of E. coli Contamination Affecting Recreational Water Quality	Regional Science Consortium	\$50,000	This study will use routine beach sampling, periodic local source sampling, and DNA-based microbial source tracking analysis to determine likely sources of elevated E. coli concentrations at Presque Isle State Park beaches. Resulting information will allow beach managers and other agencies to more effectively implement best management practices and implement regulations to reduce contamination.
Headwaters Park Invasive Species Management Plan	Erie County Conservation District	\$2,250	Develop an invasive species management plan for the natural areas of Headwaters Park in Erie County. The property is currently used as a quality educational facility for the public and specifically the county's youth.
Shorebird Monitoring at Presque Isle State Park	Department of Conservation and Natural Resources	\$15,000	Perform shorebird monitoring to determine presence/absence of endangered shorebirds, currently Piping Plover and Common Tern. Also, determine nesting behavior and nest success through and including fledgling young until the end of the breeding/nesting season.
Wilkins Run Stream Restoration Design	Millcreek Township	\$50,000	Wilkins Run is a highly eroded stream that drains mixed residential, commercial, and industrial areas included a portion of the Erie International Airport in Millcreek Township. This project will develop a stream restoration plan to stabilize the eroding stream bank and channel bed, reducing sediment entering Lake Erie.
Nature Immersion Program	Erie County Conservation District	\$3,273	Nature Immersion program offers age appropriate activities to urban youth exploring one of Erie's public parks and discovering the value of environmental stewardship. Students and chaperones will have the opportunity to engage in activities that foster curiosity and stewardship

			of Erie's natural surroundings and have the chance to explore future career opportunities and meet with several professionals in the field.
The Development of a Bluff Erosion Model Along Pennsylvania's Lake Erie Shoreline	Mercyhurst University	\$15,000	Develop a detailed landscape evolution model of the Pennsylvania Lake Erie watershed most susceptible to erosion over the next few decades by understanding the history of erosion over the past 150 years. The project will utilize tree ring, Climate, and Light Detection and Ranging (LiDAR) data to understand which locations are more prone to erosion, and thus should be protected, vs locations more likely to be safe for development.
<b>Enhancement Grants</b>			
Building Capacity to Facilitate Climate Adaptation Planning and Community Resiliency	Delaware Valley Regional Planning Commission	\$50,000	This project is an application for 309 funds for year one of a multiple year plan for resiliency planning assistance in Southeast Pennsylvania. Coastal and tidal hazards currently pose threats to coastal communities, their residents and assets. Projected increases in the severity of future coastal storms and sea level rise will likely worsen current conditions. Projects undertaken through this initiative will engage community stakeholders in a resiliency planning process.

## FY2018 Coastal Zone Grants (Oct 1, 2018 – Mar 31, 2020)

Project title	Grantee	Amount	Summary
<b>Delaware Estuary Coastal Zone</b>			
Delaware Estuary Coastal Zone Management Implementation Program	Delaware Valley Regional Planning Commission	\$45,000	Implement the Coastal Management Program in the Delaware Estuary Coastal Zone that includes Delaware, Philadelphia and Bucks counties.
Schuylkill Banks Christian to Crescent	Schuylkill River Development Corporation	\$50,000	Complete the final design and all required design documentation and permitting for the Christian to Crescent segment of Schuylkill Banks. This trail segment will also create a new connection to Bartram's Garden, which will increase visitors to this area, and will improve the lives of those individuals who can enjoy the beauty of the garden.
Croydon Woods-Bristol Marsh Trail	Heritage Conservancy	\$40,000	Develop design and engineering of the 1.5 mile Bristol Township trail segment, connecting Bristol Marsh and Croydon Woods nature preserves. The trail is envisioned to be a paved, multi-use surface featuring additional amenities such as trailheads, benches, and interpretive signage.
Bartram's Mile Fishing Pier Feasibility Study	Schuylkill River Development Corporation	\$42,000	Complete a feasibility study to repurpose one of the abandoned piers along Bartram's North into a new fishing pier. Project will analyze the condition of the pier, analyze waterline conditions, and develop a pier design plan at a preliminary level for use in future implementation efforts
Integrating Freshwater Mussel Restoration and Living Shorelines	Partnership for the Delaware Estuary	\$52,722	Design a living shoreline for up to three sites in Philadelphia County identified in a prior planning study. This pilot installation will focus on mussel beds and their ability to stabilize bottom sediments, improve water quality, and promote ecological resilience.
Croydon Woods - Enhancing a Community Asset for Education and Recreation	Heritage Conservancy	\$24,000	Provide community educational programming, help restore biodiversity and habitat through invasive species control, and develop school and scout volunteer stewardship opportunities at Croydon Woods Preserve
Connecting Water Quality Data with Mill Creek Watershed Communities	Friends of Silver Lake Nature Center	\$9,440	Friends of Silver Lake will continue their water quality monitoring program of the Mill Creek Watershed. The group will also offer monthly public programs at up to five parks with stream access, in addition to developing and distributing a "watershed report card" to residents.
Southeastern Pennsylvania Coast Day 2019	Partnership for the Delaware Estuary	\$34,503	Conduct Pennsylvania Coast Day 2019 events to educate the public about coastal recreation, historic sites, and public access
Coastal Cleanups in the Delaware Estuary	PA Cleanways/Keep Pennsylvania Beautiful	\$10,000	Conduct community cleanups and debris removal in the Delaware Estuary to be held in conjunction with the International Coastal Cleanup (ICC) in the Fall of 2019.

Delaware Estuary Integrated Climate Assessment Strategy	TBD	\$75,000	Develop a multi-year study to investigate sea level rise and its associated effects in the Delaware Estuary Coastal Zone
Bensalem Greenway Segment	Bensalem Township	\$50,000	Construct a segment of the Bensalem Greenway trail through Ryn County Park as part of the East Coast Greenway initiative from Maine to Florida. The construction of the trail path will include the clearing, grading, draining, stabilizing, traffic control, earthwork, crosswalk striping, bollards, shoulder improvements, intersections and signage associated with the greenway.
<b>Lake Erie Coastal Zone</b>			
Lake Erie Coastal Zone Coordination & Technical Assistance	County of Erie	\$70,00	Coordination and technical assistance with Lake Erie Coastal Zone projects.
Lake Erie Coastal Zone Administration of Bluff Recession Setback Act	County of Erie	\$9,000	Assist Lake Erie coastal communities in administering the Bluff Recession and Setback Act of 1980.
Improving Water Quality through Education and Citizen Action	Erie Times-News in Education	\$41,572	Erie Times-NIE and PA Sea Grant will provide educational resources/service learning activities for students/citizens to restore, conserve, and protect shared Coastal Zone resources. Articles/photos/lesson plans provide 60,000 plus readers, 6,000 students, 140+ teachers, 70+ schools, and 12 districts free resources for local "place based" science to meet Environment/Ecology standards.
The Impacts of Harmful Algal Blooms on Wild and Domestic Animals	Regional Science Consortium	\$49,834	Develop a protocol and collaboration between regional veterinarian clinics and the Regional Science Consortium to determine the number of dog illnesses and deaths from harmful algal blooms toxins.
Gannon University's Regional Summer School of Excellence	Gannon University	\$11,915	This project will inform, train, and engage high school students in a discussion and exploration of important coastal issues and related career opportunities.
Cascade Creek Restoration	Pennsylvania Sea Grant	\$54,800	Develop a study to restore impaired 220-foot section of Cascade Creek to improve wildlife habitat and reduce erosion. Efforts to restore the creek began in 2004 and have been implemented in six phases to restore 3,900 linear feet and removing over 500 tons of sediment/year from the stream. This next proposed phase will improve conditions on a 0.25 acre property open to the public for recreation.

**Enhancement Grants**

Building Capacity to Facilitate Climate Adaptation Planning and Community Resiliency	Delaware Valley Regional Planning Commission	\$50,000	This project is an application for 309 funds for year one of a multiple year plan for resiliency planning assistance in Southeast Pennsylvania. Coastal and tidal hazards currently pose threats to coastal communities, their residents and assets. Projected increases in the severity of future coastal storms and sea level rise will likely worsen current conditions. Projects undertaken through this initiative will engage community stakeholders in a resiliency planning process.
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## FY2017 Coastal Zone Grants (Oct 1, 2017 – Mar 31, 2019)

Project title	Grantee	Amount	Summary
<b>Delaware Estuary Coastal Zone</b>			
Delaware Estuary Coastal Zone Management Implementation Program	Delaware Valley Regional Planning Commission	\$45,000	Implement the Coastal Management Program in the Delaware Estuary Coastal Zone that includes Delaware, Philadelphia and Bucks counties.
Chester Creek Trail - Levee Walk	City of Chester	\$40,000	Development of a Levee Walk portion of the Chester Creek Trail located in the Eyre Park section of the City of Chester. Proposed improvements include construction of a multi-use recreational trail with amenities such as a bicycle rack, trash receptacles, signage and benches.
Schuylkill Banks Bartram's to 61st Street Final Design	Schuylkill River Development Corporation	\$36,000	SRDC will work with qualified consultants to complete final design for an extension of Schuylkill Banks, part of the Schuylkill River Trail, from South of Bartram's Garden at 56th Street to 61st Street, along the western bank of the Schuylkill River in Southwest Philadelphia.
Bartram's Garden: Philadelphia's River Garden	John Bartram Association	\$40,000	Development of Schuylkill riverfront living shoreline and dock expansion plan and construction drawings for improved public access to river ecology, Bartram's Garden historic landscape, and outdoor recreation.
Schuylkill Banks North End Vegetated Bioswale	Philadelphia Parks and Recreation	\$26,500	Construction of a vegetated bioswale along the east side of the North End of the Schuylkill Banks trail and greenway. The project is located opposite a vegetated swale previously constructed on the west side of the trail, on the hill leading up to Paine's Park.
Technical and Economic Evaluation of Nutrient Treatment Technologies	Delaware River Basin Commission	\$50,000	Evaluation of the technical and economic feasibility of attaining increasingly higher values of dissolved oxygen that may be potentially adopted as water quality standards by the DRBC. Work to include 1) evaluation of new wastewater treatment technologies and enhancements/modification to existing technologies to treat nutrients. 2) determine the economic and social costs of the installation, operation and maintenance of these various technologies, and 3) support the functioning workgroup to identify practicable early actions that can be implemented by NPDES permittees.
Southeastern Pennsylvania Coast Day 2018	Partnership for the Delaware Estuary	\$28,000	The Partnership for the Delaware Estuary will coordinate and implement Southeastern Pennsylvania Coast Day 2018, an annual free public festival and educational event celebrating the 57 miles of coastline within the Delaware Estuary portion of Pennsylvania's Coastal Zone.
<b>Lake Erie Coastal Zone</b>			

Lake Erie Coastal Zone Coordination & Technical Assistance	County of Erie	\$50,00	Coordination and technical assistance with Lake Erie Coastal Zone projects.
Lake Erie Coastal Zone Administration of Bluff Recession Setback Act	County of Erie	\$8,000	Assist Lake Erie coastal communities in administering the Bluff Recession and Setback Act of 1980.
Greene Township Park Planning	Greene Township	\$24,000	Develop a master park plan for 16 acres by Fourmile Creek, based on community input and professional guidance to conserve the space as a riparian buffer while allowing appropriate recreational activities.
Tackling Water Problems through Education and Service Learning	Erie Times - News in Education	\$31,000	Erie Times-NIE and PA Sea Grant will provide educational resources/service learning activities for students/citizens to restore, conserve, and protect shared Coastal Zone resources. Articles/photos/lesson plans provide 60,000 plus readers, 6,000 students, 140+ teachers, 70+ schools, and 12 districts free resources for local "place based" science to meet Environment/Ecology standards.
East avenue Boat Launch Ramp Storm Water Improvements	Erie Western Pennsylvania Port Authority	\$40,000	Construction of stormwater management improvements at the East Avenue Boat Launch Ramp in the City of Erie, Erie County. Work will include stormwater conveyance improvements, runoff mitigation and site stabilization.
Using Data to Determine Sand Nourishment Strategies for Presque Isle State Park Beaches	Regional Science Consortium	\$36,995	In 1992 the ACOE installed 55 breakwaters armoring the peninsula to prevent sand erosion and loss to its swimming beaches visited by 4 million visitors annually; however sand nourishment is still necessary. Reduction in support for sand nourishment requires the need to know the most effective locations to add sand to sustain swimming beaches. The objective of this project is to collect sand erosion and transport data to advise beach managers of nourishment strategies to preserve PISP beaches.
<b>Enhancement Grants</b>			
Building Capacity to Facilitate Climate Adaptation Planning and Community Resiliency	Delaware Valley Regional Planning Commission	\$50,000	This project is an application for 309 funds for year one of a multiple year plan for resiliency planning assistance in Southeast Pennsylvania. Coastal and tidal hazards currently pose threats to coastal communities, their residents and assets. Projected increases in the severity of future coastal storms and sea level rise will likely worsen current conditions. Projects undertaken through this initiative will engage community stakeholders in a resiliency planning process.



## FY2016 Coastal Zone Grants (Oct 1, 2016 – Mar 31, 2018)

Project title	Grantee	Amount	Summary
<b>Delaware Estuary Coastal Zone</b>			
Delaware Estuary Coastal Zone Management Implementation Program	Delaware Valley Regional Planning Commission	\$40,000	Implement the Coastal Management Program in the Delaware Estuary Coastal Zone that includes Delaware, Philadelphia and Bucks counties
Schuylkill Banks Bartram's to 61st Street Preliminary Engineering	Schuylkill River Development Corporation	\$48,000	SRDC will work with qualified consultants to complete preliminary engineering for a new segment of Schuylkill Banks, part of the Schuylkill River Trail, along approximately 2,666 linear feet of the rivers west bank from 58th Street to 61st Street.
Chester City Parks, Open Space and Trails Master Plan	City of Chester	\$50,000	Prepare a Comprehensive Recreation, Open Space and Greenway Plan for Chester City focusing on the alignment and development of new trails and strategic investment in existing recreational resources.
East Coast Greenway - Delaware County Implementation Phase I	Delaware County	\$40,000	The County proposes a project to investigate mechanisms to design, install, and manage the East Coast Greenway in Delaware County.
Developing a GSI Prioritization Plan for Eastern Delaware County Municipalities	Temple University	\$49,999	Temple University and community partner Eastern Delaware County Stormwater Collaborative will develop a Green Stormwater Infrastructure (GSI) Prioritization Plan for eastern Delaware County municipalities in the DarbyCobbs watershed.
Partnership for the Delaware Estuary	Juvenile Freshwater Mussel Stocking for Water Quality Enhancement in Southeast PA Waters	\$49,782	The Partnership for the Delaware Estuary will oversee the propagation of >10,000 juvenile mussels in a hatchery setting and test methods of maximizing juvenile growth in controlled natural settings including stream/pond sites in southeast PA.
Partnership for the Delaware Estuary	Southeastern Pennsylvania Coast Day 2016	\$34,361	The Partnership for the Delaware Estuary (PDE) will coordinate and run Southeastern Pennsylvania Coast Day 2017, an annual public festival and educational event celebrating the 57 miles of coastline within the Delaware Estuary portion of Pennsylvanias Coastal Zone.
Schuylkill Conservation District	2017 Bear Creek Festival	\$3,000	The Bear Creek Festival is a public education event focused on enhancing biodiversity and mitigating NPS pollution by implementing environmental BMPs. The District will enlist the help and expertise of various environmental and wildlife groups, from across the region, to present at the festival.
<b>Lake Erie Coastal Zone</b>			
Lake Erie Coastal Zone Coordination & Technical Assistance	County of Erie	\$67,500	Coordination and technical assistance with Lake Erie Coastal Zone projects.

Lake Erie Coastal Zone Administration of Bluff Recession Setback Act	County of Erie	\$7,000	Assist Lake Erie coastal communities in administering the Bluff Recession and Setback Act of 1980.
LECP West Trail Improvement	Girard Township	\$49,955	Rehabilitation of the Lake Erie Community Park West Trail. Work to include grading steep slopes, addition of aggregate surface, drainage improvements, and trail signage.
Creating More Watershed Stewards	Erie Times - News in Education	\$38,760	Erie Times-NIE and PA Sea Grant will provide educational resources/service learning activities for students/citizens to restore, conserve, and protect shared Coastal Zone resources. Articles/photos/lesson plans provide 60,000 plus readers, 6,000 students, 140+ teachers, 70+ schools, and 12 districts free resources for local "place based" science to meet Environment/Ecology standards.
Investigating the "Harm" in Harful Algal Blooms along the Coastline of Lake Erie and Presque Isle Bay	Regional Science Consortium	\$47,652	Microcystis, the bluegreen algae responsible for HABs, releases a neurotoxin (Microcystin) which causes skin rashes in humans and may result in illness and death in pets. This project will support analysis of water samples for the toxin and viable cells to provide managers data on the use of drinking and recreational water.
Texas Tech University	Project Year Two: Bat migration across Lake Erie	\$32,495	Continuation of a previously funded research to track migrating bats in the Lake Erie coastal zone. This project will focus on less common migratory species, and increasing the spatial extent of the telemetry array in Pennsylvania. Including additional species in the study will broaden the applicability of the findings.
National Audubon Society Inc	Assessing Stopover Habitat for land Birds in the Lake Erie Coastal Zone	\$44,475	Migrating land birds will be inventoried at 30 stopover sites in the Erie coastal zone and habitat quality will be assessed. Fifteen migrant birds will be fitted with transmitters during spring migration to follow their movements in Pennsylvania and northward, giving us a better understanding of habitat use.
The Pennsylvania State University	Children's Water Festival 2017	\$34,000	Event that will provide educational opportunities for approximately 1,000 local students to learn about the importance of water, water conservation and contamination, how land and water connect and how people can impact our water.
<b>Enhancement Grants</b>			
Building Capacity to Facilitate Climate Adaptation Planning and Community Resiliency	Delaware Valley Regional Planning Commission	\$50,000	This project is an application for 309 funds for year one of a multiple year plan for resiliency planning assistance in Southeast Pennsylvania. Coastal and tidal hazards currently pose threats to coastal communities, their residents and assets. Projected increases in the severity of future coastal storms and sea level rise will likely worsen current conditions. Projects undertaken through this initiative will engage community stakeholders in a resiliency planning process.

## FY2015 Coastal Zone Grants (Oct 1, 2015 – Mar 31, 2017)

Project title	Grantee	Amount	Summary
<b>Delaware Estuary Coastal Zone</b>			
Delaware Estuary Coastal Zone Management Implementation Program	Delaware Valley Regional Planning Commission	\$50,000	Implement the Coastal Management Program in the Delaware Estuary Coastal Zone that includes Delaware, Philadelphia and Bucks counties
Continued Monitoring of the Largest Freshwater Tidal Wetland in Pennsylvania with Implications for Sea Level Rise and Conservation Strategies	Academy of Natural Sciences	\$17,859	Research will compare the changes in wetland elevation and accretion rates to water properties, soil properties, and vegetation communities over time to determine what factors are most influential to wetland structural and functional integrity.
Stewarding Bristol Marsh	Heritage Conservancy	\$10,000	Heritage Conservancy continues its efforts to restore and steward Bristol Marsh and Mill Creek through public and educational programs including clean-up days, invasive and noxious plant management, native plantings and wetland riparian buffer restoration.
Delaware River Fishing Pier and Ice Breakers Condition Survey Report	Marcus Hook Borough	\$10,000	Perform a topside and underwater inspection of the fishing pier at Market Square Memorial Park and the adjoining two ice breakers. Develop an inspection report and repair recommendations with cost estimates.
Bensalem Greenway Preliminary Engineering	Pennsylvania Environmental Council	\$45,000	Preliminary engineering for two segments of the East Coast Greenway in Bensalem Township (part of the Bensalem Greenway). The two segments run along state road from Station Avenue to the end of the Bucks County property near Biddle Lane and will skirt tidal wetlands and coastal plain forest. PEC completed a master plan for the Bensalem Greenway in 2012.
Schuylkill Banks Christian to Crescent Planning	Schuylkill River Development Corporation	\$49,000	Planning to extend the Schuylkill Banks, part of the Schuylkill River Trail, from Christian Street to the Grays Ferry Crescent trail and greenway at 34th Street, along approximately 2,700 linear feet of riverfront on the eastern bank of the Schuylkill River in South Philadelphia.
Castor Avenue Connector: North Delaware Riverfront Greenway	The Pennsylvania Horticultural Society	\$28,547	Planning to develop a design for one mile section along Castor Avenue to the Delaware River via the North Delaware Riverfront Greenway. Castor Ave is an important entry point for the Port Richmond neighborhood to access the Port Richmond Trail portion of the greenway.
ICC Coordination	PA Cleanways dba Keep Pennsylvania Beautiful	\$25,000	Plan, organize, oversee, and report on the 2016 International Coastal Cleanup in Pennsylvania's Delaware Estuary, in addition to 3-5 community cleanups and implement the Cigarette Litter Prevention Program

Southeastern Pennsylvania Coast Day 2016	Partnership for the Delaware Estuary	\$32,527	The Partnership for the Delaware Estuary will coordinate and run Southeastern Pennsylvania Coast Day 2016, an annual public festival and educational event celebrating the 57 miles of coastline within the Delaware Estuary portion of Pennsylvania's Coastal Zone.
Schuylkill Banks Youth Kayak Program	Schuylkill River Development Corporation	\$2,240	SRDC will provide free aquatic recreational experiences for urban youth who are currently underserved in terms of access to the natural environment. SRDC and Hidden River Outfitters staff will partner to educate participants, such as school groups, scout troops, and extracurricular groups, about the river's history and ecology. SRDC will run eight kayak trips as part of this program, providing 128 participants, including chaperones, the chance to paddle the Schuylkill River in 2016.
<b>Lake Erie Coastal Zone</b>			
Lake Erie Coastal Zone Coordination & Technical Assistance	County of Erie	\$75,000	Coordination and technical assistance with Lake Erie Coastal Zone projects
Lake Erie Coastal Zone Administration of Bluff Recession Setback Act	County of Erie	\$8,000	Assist Lake Erie coastal communities in administering the Bluff Recession and Setback Act of 1980
Protecting Lake Erie - A Shared Obligation	Erie Times - News in Education	\$38,760	Erie Times-NIE and PA Sea Grant will provide educational resources/service learning activities for students/citizens to restore, conserve, and protect shared Coastal Zone resources. Articles/photos/lesson plans provide 60,000 plus readers, 6,000 students, 140+ teachers, 70+ schools, and 12 districts free resources for local "place based" science to meet Environment/Ecology standards.
Investigation of the Mortality of Angler Released Yellow Perch and Walleye in the Pennsylvania Waters of Lake Erie - Phase II	Regional Science Consortium	\$49,940	This study will examine the success of different release techniques on acute decompression sicknesses and resulting Perch and Walleye mortality rates.
Bat migration across Lake Erie: Implications for offshore wind energy development	Texas Tech University	\$49,081	An automated telemetry array will be used to track migrating bats in the Lake Erie Coastal Zone as they fly across or around the lake in spring and fall migration. Applicant will describe movement patterns in the coastal zone on the north and south shore, possible migration corridors across the lake and effects of season, weather, sex and age.
Lower Elk Creek Streambank Stabilization and Riparian Restoration Plan	Western Pennsylvania Conservancy	\$49,980	Engineering design to stabilize 700 feet of eroding stream bank with bank protection structures and riparian plantings to improve recreational access, public safety, riparian habitat, and water quality along Elk Creek, Lake Erie.

Investigating and Researching Environmental Health Issues	Northwest Tri-County Intermediate Unit	\$13,000	Hands-on university laboratory and field based environmental research plus career exploration for high school sophomores and juniors that specifically targets Coastal Zone Management Program policies.
<b>Enhancement Grants</b>			
Building Coastal Outreach Capacity in Pennsylvania	Pennsylvania State University, PA Sea Grant	\$60,000	Develop an aquatic invasive species rapid response monitoring and surveillance system; build Marine Spatial Planning; and explore the Lake Erie coastal zone boundary and potential interests in expansion
<b>Coastal Nonpoint Pollution (CNPP) Grants</b>			
Implementation of the Coastal Nonpoint Pollution Program	Bucks, Delaware and Erie County Conservation Districts	\$20,000 per district	Implement and track coastal non-point pollution management measures.