



Hurricane Sandy Coastal Resiliency Competitive Grant Program Full Project List

Connecticut

Enhancing Mill River's Flood Resiliency and Habitat Corridor

Mill River Collaborative

Grant Award:	\$3,750,000
Matching Funds:	\$6,985,000
Total Project Funds:	\$10,735,000

Project Description: Increase Mill River flood resiliency and re-creating a habitat corridor in Stamford, Connecticut along Mill River Street between West Main Street and Richmond Hill Ave. This project will eradicate invasive species, replant native flora, and restore .85 Acres of Riparian, .5 acres of wetland along with 2 acres of the flood plain. The project will revise the FEMA floodplain and floodway mapping to accurately reflect the current flooding conditions. The project will upgrade and restore degraded storm water infrastructure. This work will provide better river access and amenities to the urban community of Stamford.

Restoring Fish Runs and Fragmented Trout Populations by Removing a Fish Barrier

State of Connecticut

Grant Award:	\$2,718,517
Matching Funds:	\$3,126,099
Total Project Funds:	\$5,844,616

Project Description: Eliminate a barrier to fish passage and stabilize riparian streambank on the state-owned Springborn Dam in Enfield, Connecticut. Project will reopen 2.6 miles of riverine habitat for migratory and diadromous fish passage and recreation, reunite brook trout populations, and reduce flood hazards for the Enfield community.

Developing a Resiliency Management Plan for Pawcatuck River Watershed

Wood-Pawcatuck Watershed Association

Grant Award:	\$719,999
Matching Funds:	\$188,000
Total Project Funds:	\$907,999

Project Description: Develop the Wood-Pawcatuck Watershed Flood Resiliency Plan for 12 communities in southern Rhode Island and Connecticut. The project will support planning to assess the watershed vulnerability to flooding, erosion and storms; and to enhance its resiliency, restore habitat, and protect local communities from these threats.

Creating a Regional Framework for Coastal Resilience in Southern Connecticut

South Central Regional Council of Governments

Grant Award:	\$642,169
Matching Funds:	\$-
Total Project Funds:	\$642,169

Project Description: Establish a Regional Framework for Coastal Resilience for ten municipalities that run along the entire central coast of Connecticut. Project will integrate green infrastructure principles, prioritize projects, and contribute to a Regional Coastal Resiliency Plan.

Restoring Great Meadows Marsh on Long Island Sound

National Audubon Society, Inc.

Grant Award:	\$499,975
Matching Funds:	\$508,613
Total Project Funds:	\$1,008,587

Project Description: Restore 40 acres of salt marsh and other coastal habitats at Great Meadows Marsh, U.S. Fish and Wildlife Service, Stewart B. McKinney National Wildlife Refuge, Stratford, Connecticut. Project will restore marsh hydrology, increase wildlife habitat and enhance public access to Long Island Sound.

Developing a Municipal Culvert Cooperative to Improve Fish Passage in the Housatonic River

Housatonic Valley Association, Inc.

Grant Award:	\$151,510
Matching Funds:	\$369,800
Total Project Funds:	\$521,310

Project Description: Create a municipal culvert cooperative that builds on years of road-stream crossing assessments and replacement planning work in the Housatonic River of western Massachusetts and northwest Connecticut. Project will complete 10 shovel-ready culvert designs and utilize two demonstration sites to show other municipalities best practices for stream restoration that benefit native brook trout and reduce flood hazard risks.

Designing a Living Shoreline to Restore Chippechaug Cove Marsh

Town of Stonington, CT

Grant Award:	\$116,966
Matching Funds:	\$-
Total Project Funds:	\$116,966

Project Description: Complete a project design to restore and expand the coastal natural systems with a living shoreline and a wet rock sill. Project will maintain marsh habitat in Chippechaug Cove and build resilience for the community against rising sea levels by buffering Chippechaug Trail roadway.

Creating Thriving Habitats for the Coastal Birds of Long Island Sound-VIII

Connecticut Audubon Society

Grant Award:	\$105,808
Matching Funds:	\$118,051
Total Project Funds:	\$223,859

Project Description: Deliver targeted stewardship and provide education on American oystercatcher and other migratory shorebirds and habitat along the Long Island Sound coastline of Connecticut. Project will increase public awareness about the value of sharing the shore with these birds among recreational users and reduce disturbance to the birds' breeding and roosting sites on the Sound.

Planning for Fish Passage at Dana Dam

Save the Sound, Inc.

Grant Award:	\$75,000
Matching Funds:	\$50,112
Total Project Funds:	\$125,112

Project Description: Develop a plan to remove one barrier to fish passage on the Norwalk River, Wilton, Connecticut. Project will set the stage to restore access to 10 miles of migratory riverine corridor for blueback herring, American shad, American eel and sea lamprey to Long Island Sound.

Coastal Resiliency Action Strategy and Hazard Planning

City of Groton

Grant Award:	\$50,596
Matching Funds:	\$48,180
Total Project Funds:	\$98,776

Project Description: Identify tools for a strategic plan to address vulnerabilities and risks to coastal resilience in Connecticut. Project will provide actions to improve the City's response to future storms and sea level rise.

District of Columbia

Oxon Run Environmental Assessment and Preliminary Designs

Department of Energy and Environment

Grant Award:	\$250,000
Matching Funds:	\$250,000
Total Project Funds:	\$500,000

Project Description: Conduct an environmental assessment and develop preliminary designs for over 16,000ft of restored stream and wetland creation for Oxon Run in southeast Washington, District of Columbia. Project will develop designs focused on reducing impacts from a 100 year flood, removing 5,000 feet of a trapezoidal concrete stream channel, and improving in-stream habitat conditions.

Delaware

Restoring Delaware Bay's Wetlands and Beaches in Mispillion Harbor Reserve and Milford Neck Conservation Area

Delaware Department of Natural Resources

Grant Award:	\$4,500,000
Matching Funds:	\$1,532,235
Total Project Funds:	\$6,032,235

Project Description: Implement a system-wide approach to evaluate, design, and construct restoration and resiliency strategies along the central Delaware Bayshore. Project will enhance community and ecosystem resiliency by generating a restoration plan and restoring the beach and dune system.

Repairing Infrastructure and Designing Wetland and Beach Restoration Plans along the Central Delaware Bayshore

Delaware Department of Natural Resources

Grant Award:	\$2,000,000
Matching Funds:	\$1,418,666
Total Project Funds:	\$3,418,666

Project Description: Design restoration plans for Delaware Bay's wetlands and beaches. Project will enhance community and ecosystem resiliency by generating restoration plans and replacing critical water control structures.

Creating a Three Dimensional Wetland Model for the Bombay Hook National Wildlife Refuge

University of Delaware

Grant Award:	\$399,749
Matching Funds:	\$148,487
Total Project Funds:	\$548,236

Project Description: Develop a three dimensional wetland model for the Bombay Hook National Wildlife Refuge, Delaware. Project will provide current wetland assessments, help evaluate restoration strategies, and predict the long-term sustainability of the marsh.

**Assessing Beneficial Use of Dredged Sediments for
Habitat Restoration of Bay shore Communities**

DNREC Coastal Programs

Grant Award:	\$75,000
Matching Funds:	\$74,875
Total Project Funds:	\$149,875

Project Description: Assess the feasibility of using dredge material and other nearshore sediments for beach restoration in the Delaware Bay shore communities of Bowers Beach and South Bowers, to enhance community resilience and restore habitat. Project will integrate a plan to employ this tactic into future community shoreline and habitat management practice.

Massachusetts

**Enhancing Seven Communities, Ecosystems, and
Infrastructure Resiliency by Removing Seven Fish Barriers**

*Fish and Game, Massachusetts Department of/ Division of
Ecological Restoration*

Grant Award:	\$4,487,993
Matching Funds:	\$1,797,446
Total Project Funds:	\$6,285,439

Project Description: Remove seven high risk fish barriers and design plans for three additional barriers that cause flood damage within nine Massachusetts communities. Project will increase flood resiliency, open 123 river miles for fish, and restore 57 acres of wetlands. Project will also identify and develop concept plans for ten additional high priority barriers.

**Coastal Resiliency Planning and Ecosystem Enhancement
for Northeastern Massachusetts**

National Wildlife Federation

Grant Award:	\$2,940,000
Matching Funds:	\$1,772,274
Total Project Funds:	\$4,712,274

Project Description: Restore and enhance the Great Marsh Upper North Shore in Massachusetts through five project sub-components that work together to reduce vulnerability to future storm events and increase ecological resiliency for the Great Marsh estuary and its associated coastal watersheds and municipalities. This project will strengthen community resiliency through a combination of restoration projects, assessments, and coastal resiliency plans.

**Enhancing Wampanoag Tribe of Gay Head's Land
Resiliency in Martha's Vineyard**

Wampanoag Tribe of Gay Head

Grant Award:	\$670,000
Matching Funds:	\$231,966
Total Project Funds:	\$901,966

Project Description: Assess and restore over 230 acres of tribal habitat in Martha's Vineyard, Massachusetts. Management plans and multi-jurisdictional partnerships will support marine protection and habitat restoration.

**Designing a Plan to Reuse Dredged Rock to Protect the
Boston Harbor Shoreline**

Massachusetts Division of Marine Fisheries

Grant Award:	\$238,939
Matching Funds:	\$164,477
Total Project Funds:	\$403,415

Project Description: Design a plan to reuse one million cubic yards of rock to create a protected Boston Harbor shoreline in Massachusetts. Project will develop a plan that will reduce wave energy, protect transplanted eelgrass, and repurpose dredged rock.

Restore Coldwater and Diadromous Fish Habitat in Howlett Brook Watershed*Ipswich River Watershed Association*

Grant Award:	\$188,742
Matching Funds:	\$502,902
Total Project Funds:	\$691,644

Project Description: Assess and improve fish passage in Howlett Brook, a tributary to the Ipswich River in northeastern Massachusetts, by prioritizing and removing barriers to passage for eastern brook trout and river herring. Project will complete conceptual designs for 12 barriers and 30% designs for another six barriers, assess the status of eastern brook trout populations, remove two high priority barriers and open eight miles of stream and 68 acres of historic pond spawning habitat for river herring.

Finalizing Designs to Remove a Barrier to Brook Trout at Wheelwright Pond on the Ware River*East Quabbin Land Trust, Inc.*

Grant Award:	\$89,995
Matching Funds:	\$-
Total Project Funds:	\$89,995

Project Description: Complete final design and permitting for the removal of a significant barrier to aquatic organism passage at Wheelwright Pond on the Ware River in eastern Massachusetts. Project will set the stage for implementing the removal of the barrier and eventually reconnect 41 miles of upstream habitat, including 34 miles of high-quality eastern brook trout habitat, in a state-designated coldwater fishery resource.

Restore Aquatic Connectivity for Eastern Brook Trout on 27 Miles of the Manhan River*Massachusetts Audubon Society, Inc.*

Grant Award:	\$80,627
Matching Funds:	\$88,803
Total Project Funds:	\$169,430

Project Description: Restore critical ecological functions and protect community water infrastructure vulnerable to flooding through the removal of the Lyman Pond Dam on the Manhan River, a tributary to the Connecticut River in south central Massachusetts. Project will eliminate a total barrier to upstream movement of native brook trout and anadromous fish species, protect a public source of drinking water, and restore fish passage to 27 miles of previously inaccessible high quality habitat.

Maryland

Increasing Salt Marsh Acreage and Resiliency for Blackwater National Wildlife Refuge*The Conservation Fund, A Nonprofit Corporation*

Grant Award:	\$3,299,210
Matching Funds:	\$1,875,534
Total Project Funds:	\$5,174,744

Project Description: Increase salt marsh acreage and enhance resiliency for Blackwater National Wildlife Refuge and Fishing Bay Wildlife Management Area in southern Dorchester County, Maryland. Project will restore 30 acres of salt marsh, increase salt marsh productivity, and generate an invasive plant eradication map in order to treat invasive species in the Blackwater NWR.

Increasing Community and Ecological Resiliency by Removing a Patapsco River Fish Barrier*American Rivers, Inc.*

Grant Award:	\$2,480,000
Matching Funds:	\$5,677,025
Total Project Funds:	\$8,157,025

Project Description: Remove a Patapsco River fish barrier in the Patapsco Valley State Park Avalon area. Project will open 52.5 miles of stream, provide additional spawning habitat, and strengthen community resiliency.

Creating Green Infrastructure Resiliency in Greater Baltimore and Annapolis Watersheds

The Conservation Fund, A Nonprofit Corporation

Grant Award:	\$583,564
Matching Funds:	\$480,881
Total Project Funds:	\$1,064,445

Project Description: Map, analyze, and assess Maryland's green infrastructure to enhance the Greater Baltimore and Annapolis watersheds in Maryland. Project will provide resilience-enhancing opportunities and best practices for local government implementation.

Protecting North Beach's Salt Marsh and Emergency Route

Town of North Beach, Maryland

Grant Award:	\$540,000
Matching Funds:	\$121,214
Total Project Funds:	\$661,214

Project Description: Create, restore, and improve North Beach's shoreline in Calvert County, Maryland. Project will prevent further erosion to North Beach's 105-acre salt marsh, protect the surrounding communities, and prevent damage to MD Route 261, an emergency vehicle route.

New Hampshire

Restoring Bellamy River's Fish Passage and Reducing Flooding Through Removal of Fish Barriers

New Hampshire Department of Environmental Services

Grant Award:	\$550,000
Matching Funds:	\$286,540
Total Project Funds:	\$836,540

Project Description: Complete designs and permits to remove two dams and remove the Lower Sawyer Mill Dam in Dover, New Hampshire. Project will restore 4.9 river miles, re-introduce a fish passage by improving channel geomorphology for river herring, reduce flooding, and improve water quality and storm resilience for the adjacent shoreline community during storms.

Restore Fish Passage for Native Brook Trout and Improve Stream Habitat in the Warner River

Merrimack River Watershed Council

Grant Award:	\$191,198
Matching Funds:	\$-
Total Project Funds:	\$191,198

Project Description: Replace five undersized culverts, restore riparian forest buffers and improve instream conditions in the Warner River Watershed in southern New Hampshire. Project will develop a cost-effective and replicable model of Resilient Riparian Forest Management by engaging landowners and foresters in climate-adaptive riparian buffer restoration at precision-targeted sites, while holistically improving habitat for wild brook trout and dramatically reducing flood risk at high priority flood hazard sites.

Restoring Fish Passage for Native Brook Trout at Lyman Brook

Trout Unlimited, Inc.

Grant Award:	\$170,245
Matching Funds:	\$-
Total Project Funds:	\$170,245

Project Description: Remove a barrier to fish passage along a perennial coldwater tributary to Lyman Brook in Milton, New Hampshire, that will provide flood resiliency for the local road infrastructure during high flow events. Project will replace an undersized culvert, open up 1.2 miles of upstream coldwater habitat for eastern brook trout, native salamanders, and other aquatic organisms, while providing long term monitoring to gauge the success of the project for aquatic connectivity and reduced flood hazards.

New Jersey

Restoring Ecologically Beneficial and Resilient Infrastructure at the Mouth of Maurice River

American Littoral Society

Grant Award:	\$4,881,064
Matching Funds:	\$-
Total Project Funds:	\$4,881,064

Project Description: Create hybrid living shoreline, hybrid rock revetment, oyster reefs, and ribbed mussel beds at the tip of Basket Flats and at Northwest Reach. Project will protect the inlet of the Maurice River and provide resiliency and ecological uplift by protecting marsh and creating new habitat.

Creating a Resilient Delaware Bay Shoreline in Cape May and Cumberland Counties

American Littoral Society

Grant Award:	\$4,750,000
Matching Funds:	\$2,036,761
Total Project Funds:	\$6,786,761

Project Description: Restore 1 acre of Delaware Bay's wetlands and 3 miles of beach in Cape May and Cumberland Counties, New Jersey. Project will improve horseshoe crab spawning, provide shorebird stopover area, and improve ecological and economic community resilience.

Building Ecological Solutions to Coastal Community Hazards

New Jersey Department of Environmental Protection

Grant Award:	\$3,379,059
Matching Funds:	\$1,074,299
Total Project Funds:	\$4,453,357

Project Description: Develop, design, and deliver a combination of planning and implementation projects enhancing resiliency and adding ecological value in nine New Jersey coastal communities.

Reusing Dredged Material to Restore Salt Marshes and Protect Communities

New Jersey Department of Environmental Protection - Office of Natural Resource Restoration

Grant Award:	\$3,322,823
Matching Funds:	\$10,084,761
Total Project Funds:	\$13,407,584

Project Description: Pilot the reuse of Thin Layer Deposition of dredged materials to restore 53 acres of salt marsh, shorebird nesting habitat and dune at Avalon, Stone Harbor, and Fortescue sites in New Jersey. Project will enhance salt marsh and nesting habitat wildlife, and reduce potential impacts from future storms flooding on nearby communities.

Strengthening Marshes Creek Through Green and Grey Infrastructure

Rutgers University

Grant Award:	\$2,378,750
Matching Funds:	\$244,947
Total Project Funds:	\$2,623,697

Project Description: Rutgers University will develop and deliver ten Green Infrastructure (GI) projects in the Tremley Point community, Linden, New Jersey. The project will reduce 6 million gallons of stormwater pollution annually; capture and infiltrate rainwater helping reduce community vulnerability to storms; and develop and deliver an on-the-ground GI and floodplain enhancement project involving restoration of 3.1 acres of upland, meadow, and floodplain with native species on a NJ State Blue Acres property in Tremley Point.

Replenishing Little Egg Harbor's Marshes and Wetlands

Little Egg Harbor Township, New Jersey

Grant Award:	\$2,130,000
Matching Funds:	\$76,752
Total Project Funds:	\$2,206,752

Project Description: Little Egg Harbor Township, New Jersey will conduct a marsh restoration and replenishment project to restore severely eroded shorelines. Project will implement a living shoreline designed as a marsh sill with oyster friendly material to cultivate habitat, and provide beach replenishment including a stone breakwater to halt erosion.

Restoring Over One Hundred Wetland Acres in Great Egg Harbor Bay

City of Ocean City, New Jersey

Grant Award:	\$2,042,566
Matching Funds:	\$988,826
Total Project Funds:	\$3,031,393

Project Description: Restore up to 150 wetland acres in Great Egg Harbor Bay, New Jersey. Project will restore function and value to wetland areas to mitigate future storm impacts and provide healthier habitats.

Using Dredged Material to Enhance Marsh at Edwin B. Forsythe National Wildlife Refuge

New Jersey Department of Transportation

Grant Award:	\$1,630,385
Matching Funds:	\$1,634,439
Total Project Funds:	\$3,264,825

Project Description: Restore and improve previously storm damaged Good Luck Point Marsh using the technique of Sediment Enrichment. Project will use dredged material to enhance the saltmarsh environment and habitat allowing for the natural sediment to remain in the estuarine system, feeding the marsh and replenishing loss from erosion and sea-level rise.

Increasing Seven Mile Island's Beach Resiliency

New Jersey Audubon Society

Grant Award:	\$1,279,992
Matching Funds:	\$53,424
Total Project Funds:	\$1,333,416

Project Description: Restore 26 acres of beach and island habitat and add to a resiliency dune at Stone Harbor Point in Cape May County, New Jersey. The project will increase coastal resiliency for the Borough of Stone Harbor; enhance habitat for beach-nesting birds and migratory shorebird species; survey restoration results; and develop an adaptive management framework in collaboration with the Borough to maintain the resiliency restoration sites.

Strengthening Monmouth Beach's Marshes and Dunes

Monmouth Beach, New Jersey

Grant Award:	\$1,240,379
Matching Funds:	\$1,750,000
Total Project Funds:	\$2,990,379

Project Description: Construct and enhance 1000 feet of coastal dune and design 17 acres or marsh restoration in Monmouth Beach, New Jersey. Both terrains will provide critical wildlife habitat and community protection.

Incorporating Green Infrastructure Resiliency in the Raritan River Basin*Rutgers University*

Grant Award:	\$820,000
Matching Funds:	\$354,638
Total Project Funds:	\$1,174,638

Project Description: Perform 54 municipality assessments and impervious cover reduction action plans for the Raritan River Basin in New Jersey. Project will create a municipality strategy guide with resiliency recommendations focusing on the use of Green Infrastructure (GI) to address flooding impervious surfaces and to improve the water quality of the Raritan River and its tributaries, and implement 67 GI projects that capture over 114,784,426 gallons of stormwater annually.

Improving the Resiliency of Horseshoe Crab and Shorebird Habitat*American Littoral Society*

Grant Award:	\$500,000
Matching Funds:	\$500,000
Total Project Funds:	\$1,000,000

Project Description: Improve the resiliency of 0.34 linear miles (5.8 acres) of important horseshoe crab spawning and red knot foraging beach habitat at Fortescue beach located in Downe Township, New Jersey by creating up to 1,200 linear feet of hybrid living reef breakwaters that will minimize sand loss during winter storms. Project will engage eight local partners, 250 volunteers and reach 2,500 people through our existing outreach programs to include horseshoe crab tagging and re-sighting.

Preventing Erosion and Restoring Hydrology in the Pine Barrens*New Jersey Conservation Foundation*

Grant Award:	\$280,000
Matching Funds:	\$194,400
Total Project Funds:	\$474,400

Project Description: Restore hydrology and prevent erosion in the Pine Barrens in Burlington County and Ocean County, New Jersey. Project will improve stream and wetland resiliency, while protecting important habitat.

Transforming Hoboken's Block 12 into a Green Infrastructure Asset*City of Hoboken, New Jersey*

Grant Award:	\$250,000
Matching Funds:	\$8,513,923
Total Project Funds:	\$8,763,923

Project Description: Incorporate green infrastructure into Block 12's redesign in Hoboken, New Jersey. Project will increase stormwater management, reduce sewer overflow, and increase open space acreage.

Developing a Design that Will Enhance Liberty State Park's Marshes and Upland Habitats*New Jersey Department of Environmental Protection - Office of Natural Resource Restoration*

Grant Award:	\$250,000
Matching Funds:	\$158,612
Total Project Funds:	\$408,612

Project Description: Project design aims to enhance resiliency to coastal storms and sea level rise at this shoreline park by restoring a buffer of marsh and upland habitat while also creating new publicly accessible areas for nature-based recreation at an urban park significantly affected by coastal storms.

Restoring Newark Bay's Wetlands*City of Newark, New Jersey*

Grant Award:	\$248,791
Matching Funds:	\$-
Total Project Funds:	\$248,791

Project Description: Restore Newark Bay's wetlands in New Jersey. The 12-acre restoration will buffer against shoreline erosion, improve flood control, and remove invasive plants.

Nellie Bennett Marsh Restoration Planning*Ocean County College - Barnegat Bay Partnership*

Grant Award:	\$234,930
Matching Funds:	\$-
Total Project Funds:	\$234,930

Project Description: Complete site assessment and preliminary design for restoration of 20 acres of tidal salt marsh and up to 2,600 feet of shoreline that is undergoing subsidence and edge erosion. Project will provide important wildlife habitat and protect a local school and over 150 homes from flooding and wave action.

Addressing Flooding and Stormwater in Burlington County*Pinelands Preservation Alliance*

Grant Award:	\$204,000
Matching Funds:	\$302,700
Total Project Funds:	\$506,700

Project Description: Provide homeowners and municipalities with expert advice and financial assistance to create rain gardens and other nature-based infrastructure projects that capture polluted stormwater and prevent it from entering lakes and rivers. Project will reach 1,000 community members and 500 volunteers and offer a technical assistance workshop where Rutgers University engineers will design rain gardens for homeowners and municipalities will get one-on-one assistance and designs for large-scale projects.

Coastal Landscape Enhancement for Community Resilience at the Waretown Lighthouse Center*Ducks Unlimited, Inc.*

Grant Award:	\$137,692
Matching Funds:	\$41,886
Total Project Funds:	\$179,578

Project Description: Conduct site assessment and develop plans to restore 50 acres of salt marsh habitat at the Lighthouse Center in Waretown, New Jersey. Project will develop designs to increase marsh elevation with the reuse of local dredge material and restore natural marsh hydrology by mitigating mosquito-control ditches with low-technology methods.

New York**Rejuvenating Sunset Cove's Salt Marsh and Upland Habitat***New York City Department of Parks and Recreation*

Grant Award:	\$4,850,000
Matching Funds:	\$2,240,000
Total Project Funds:	\$7,090,000

Project Description: Restore three acres of Sunset Cove's wetland and seven acres of upland habitat in Queens, New York. Project will enhance water quality, provide shellfish habitat, and increase public recreation access.

Restoring Bronx River Shoreline at Starlight Park*New York City Department of Parks and Recreation*

Grant Award:	\$4,400,000
Matching Funds:	\$880,000
Total Project Funds:	\$5,280,000

Project Description: Restore ecosystem function and habitat for the Bronx River in New York City. Project will re-naturalize the shoreline, restore habitat function, and remove contaminated soil.

Restoring Spring Creek Park's Salt Marsh and Upland Habitat*New York City Department of Parks and Recreation*

Grant Award:	\$3,843,000
Matching Funds:	\$5,585,863
Total Project Funds:	\$9,428,863

Project Description: Restore and enhance significant areas of coastal habitat, thereby re-establishing ecological functions and services in an important tributary to Jamaica Bay, and provide increased resiliency for adjacent neighborhoods through additional storm surge buffers and green infrastructure to reduce inland flooding. This project will ultimately provide an added line of defense against the vulnerability of southern Queens and Brooklyn to coastal storms.

Improving Shinnecock Reservation's Shoreline Habitats*Shinnecock Indian Nation*

Grant Award:	\$3,713,933
Matching Funds:	\$510,754
Total Project Funds:	\$4,224,688

Project Description: Restore Shinnecock Reservation's eelgrass, oyster, marsh, and beach habitats in Southampton, New York. Project will reduce erosion, increase habitat, and strengthen shoreline resiliency.

Strengthening Sunken Meadow State Park's Resiliency*Save the Sound, Inc.*

Grant Award:	\$2,500,000
Matching Funds:	\$57,500
Total Project Funds:	\$2,557,500

Project Description: Enhance Sunken Meadow State Park's 135 acres of salt marsh and remove run-off in Long Island, New York. Project will strengthen ecosystem resiliency and promote green infrastructure benefits.

Wetland Restoration in Suffolk County*County of Suffolk*

Grant Award:	\$1,183,351
Matching Funds:	\$628,247
Total Project Funds:	\$1,811,598

Project Description: Restore 261 wetland acres and build capacity to rehabilitate 1,500 acres in Suffolk County, New York. Project will strengthen wetland resiliency and provide capacity-building opportunities.

Strengthening Coney Island's Resiliency through Green Streets*New York City Department of Parks and Recreation*

Grant Award:	\$987,425
Matching Funds:	\$779,183
Total Project Funds:	\$1,766,608

Project Description: Strengthen Coney Island's resiliency through installation of 4 stormwater greenstreets in Brooklyn, New York. Project will mitigate flooding, filter over 860,000 gallons of stormwater run-off, and serve as a model to other communities.

Developing Self-Sustaining Oyster Population in Jamaica Bay*New York City Department of Environmental Protection*

Grant Award:	\$905,442
Matching Funds:	\$172,681
Total Project Funds:	\$1,078,123

Project Description: Develop self-sustaining oyster population in Jamaica Bay, New York. Project will improve water quality and increase oyster larvae recruitment.

Planning to Enhance Coastal Resiliency with Tidal Marsh Restoration at Sunken Meadow Park - II

National Audubon Society, Inc.

Grant Award:	\$752,040
Matching Funds:	\$-
Total Project Funds:	\$752,040

Project Description: Develop design plans to restore marsh at Sunken Meadow State Park in Kings Park, New York. Project will advance restoration of high marsh habitat to support saltmarsh sparrow, an iconic species of Long Island Sound, and buffer the park and nearby community from storms and sea-level rise.

Ausable Watershed Flood Mitigation and Fish Passage Restoration

The Nature Conservancy - New York

Grant Award:	\$620,000
Matching Funds:	\$234,773
Total Project Funds:	\$854,773

Project Description: Replace at least three flood-prone culverts in the Ausable Watershed in northern New York. Project will restore fish passage for 25 miles, mitigate flooding, and reduce community costs.

Developing a Conservation and Climate Adaptation Plan for Great Gull Island

University of Connecticut

Grant Award:	\$399,997
Matching Funds:	\$-
Total Project Funds:	\$399,997

Project Description: Develop a climate and shoreline adaptation, monitoring, and management plan for common and roseate terns at Great Gull Island, New York. Project will establish a roadmap for conservation of rare species of Long Island Sound.

Reconnecting and Restoring the Allegany Reservoir

The Seneca Nation of Indians

Grant Award:	\$350,000
Matching Funds:	\$601,907
Total Project Funds:	\$951,907

Project Description: Restore riparian buffer and reconnect ten land-locked areas to the Allegheny River system in the area of the Allegheny Reservoir in Cattaraugus County, New York. Project will strengthen the resiliency of shorelines, improve habitat for fish, and conduct surveys of native fish species.

Marine Meadows Eelgrass Restoration for Long Island Sound

Cornell Cooperative Extension of Suffolk County

Grant Award:	\$293,122
Matching Funds:	\$200,365
Total Project Funds:	\$493,486

Project Description: Restore eelgrass, build public awareness and engage volunteers in restoration in the waters of Long Island Sound along eastern Long Island, New York. Project will plant eelgrass marine meadows to reduce wave action, stabilize the sea floor, and trap sediment to maintain the integrity of local shorelines and improve water quality.

Designing a Daylighting Plan to Improve Harlem River's Water Quality and Resiliency

New York City Department of Parks and Recreation

Grant Award:	\$250,000
Matching Funds:	\$2,116,000
Total Project Funds:	\$2,366,000

Project Description: Create a conceptual design plan to daylight and restore the Tibbetts Brook wetland. Project will develop the first phase of a larger project to remove the Tibbetts Brook from the combined sewer system, and reconnect the Tibbetts Brook back to the Harlem River.

Ohio

Improving Coastal Resiliency through Community Engagement

Association of State Floodplain Managers

Grant Award:	\$341,655
Matching Funds:	\$95,800
Total Project Funds:	\$437,454

Project Description: Engage Ohio and Rhode Island communities in projects that will improve their coastal resiliency. Project will encourage communities to participate more, provide an ecosystem resiliency roadmap, and potentially lower flood insurance costs.

Pennsylvania

Reducing Flood Impacts and Restoring Habitat in the Brandywine River Watershed

Stroud Water Research Center

Grant Award:	\$3,029,993
Matching Funds:	\$500,000
Total Project Funds:	\$3,529,993

Project Description: Restore 80 acres of wetlands and riparian habitat in the Brandywine River watershed in Pennsylvania. Project will improve community flood resiliency, reconnect habitats, and reduce run-off.

Developing a Green Infrastructure Plan for Chester City

Delaware Valley Regional Planning Commission

Grant Award:	\$273,582
Matching Funds:	\$10,605
Total Project Funds:	\$284,187

Project Description: Develop a green infrastructure plan and implement a demonstration project in Chester City, Pennsylvania. Project will incorporate green infrastructure policies, focus on citizen empowerment, and serve as a model to neighboring cities.

Restoring Aquatic Connectivity to Strengthen Brook Trout Habitat in Pennsylvania

Potter County Conservation District

Grant Award:	\$199,943
Matching Funds:	\$212,661
Total Project Funds:	\$412,604

Project Description: Sustain and improve eastern brook trout populations in Card Creek and Little Portage Creek by removing three barriers to aquatic organism passage. Project will result in the opening of 10.75 miles of previously inaccessible stream and the improvement of flood resiliency at each site.

Designing Living Shorelines Alternatives in the Delaware Estuary

Partnership for the Delaware Estuary, Inc.

Grant Award:	\$117,007
Matching Funds:	\$125,000
Total Project Funds:	\$242,007

Project Description: Address issues of coastal resilience and water quality to enhance the benefits in freshwater tidal zone. Project will design an innovative living shoreline approach incorporating freshwater mussels for a high priority area of erosion on the banks of the Schuylkill River at the Fairmount Water Works in Philadelphia.

Rhode Island

Reusing Dredged Materials to Enhance Salt Marsh in Ninigret Pond

Rhode Island Coastal Resources Management Council

Grant Award:	\$3,208,616
Matching Funds:	\$473,363
Total Project Funds:	\$3,681,979

Project Description: Restore 30 acres of salt marsh in Ninigret Pond and create two additional marsh restoration designs in the Salt Ponds Region in south Rhode Island. Project will strengthen the marsh's resiliency and serve as a model to similar restoration projects throughout the state.

Strengthening Sachuest Bay's Coastal Resiliency

Town of Middletown, Rhode Island

Grant Award:	\$2,062,280
Matching Funds:	\$693,159
Total Project Funds:	\$2,755,439

Project Description: Enhance over 100 acres of Sachuest Bay's beaches and wetlands in Middletown, Rhode Island. Project will improve water quality, enhance natural infrastructure, and improve existing grey infrastructure.

Developing Rhode Island's Coastal Resiliency Program

University of Rhode Island

Grant Award:	\$861,186
Matching Funds:	\$380,650
Total Project Funds:	\$1,241,836

Project Description: Develop monitoring network, coastal maps, and best engineering practices for southern shore of Rhode Island. Project will generate best practices and policies, test modeling tools, and is the first step to developing a statewide coastal resiliency program.

Building Green Infrastructure into Community Policies

University of Rhode Island

Grant Award:	\$400,000
Matching Funds:	\$-
Total Project Funds:	\$400,000

Project Description: Incorporate green infrastructure into community policies in Newport, Warwick, and North Kingstown, Rhode Island. Project will increase resiliency, build local decision-maker capacity, and serve as a replicable model for neighboring states.

Creating a Natural Resource Resiliency Assessment and Action Plan

Narragansett Indian Tribe

Grant Award:	\$49,950
Matching Funds:	\$-
Total Project Funds:	\$49,950

Project Description: Create a natural resource resiliency assessment and action plan for the Tribe's 2,049 acre Federal Trust Reservation Lands across 7 tracts in Charlestown, Rhode Island. The project will identify mitigation strategies to strengthen watershed resiliency and protect nearby communities, and develop specific management recommendations in an action plan to maintain and improve natural resource resilience on Tribal lands.

Virginia

Developing a Green Infrastructure Plan and Network for the Lafayette River Watershed

City of Norfolk, Virginia

Grant Award:	\$4,640,000
Matching Funds:	\$257,343
Total Project Funds:	\$4,897,343

Project Description: Design seven and construct five shoreline restoration projects and develop a green infrastructure plan and framework for the Lafayette River watershed in Norfolk, Virginia. Project will strengthen the watershed's resiliency, engage 40 veterans in a green infrastructure training course, and involve 160 high school students in hands-on projects.

Developing Coastal Resiliency Regional Models

Wildlife Foundation of Virginia

Grant Award:	\$3,992,166
Matching Funds:	\$693,767
Total Project Funds:	\$4,685,933

Project Description: Enhance 3,783 acres of wetlands in the Southern Watersheds Area of Virginia, including Virginia Beach and Chesapeake Bay. Project will strengthen coastal resiliency and serve as an adaptation resource for community leaders and decision makers.

Green Infrastructure in Accomack and Northampton Counties

The Nature Conservancy

Grant Award:	\$1,460,000
Matching Funds:	\$419,312
Total Project Funds:	\$1,879,312

Project Description: Engage decision-makers in a collaborative process to develop coastal resilience tools and models, and restore oyster reefs in Accomack and Northampton Counties, Virginia. The project will create tools to assess resiliency threats and opportunities, and deliver projects that demonstrate the storm protection benefits of natural infrastructure.

Improving and Quantifying Wetlands' Potential to Reduce Storm Surge Impacts

George Mason University

Grant Award:	\$439,668
Matching Funds:	\$93,817
Total Project Funds:	\$533,485

Project Description: Quantify the capacity of wetlands to attenuate storm surge impacts at four Virginia nature preserves along the Chesapeake Bay shoreline. This project will analyze and assess results from field studies and hydrodynamic modeling to provide a field-based dataset informing future management policies and resilience planning

Regional Assessment Projects

Improving Northeast Coast Storm-Related Data Interpretation and Accessibility

Northeastern Regional Association of Coastal and Ocean Observing Systems (NERACOOS)

Grant Award:	\$520,000
<u>Matching Funds:</u>	<u>\$143,348</u>
Total Project Funds:	\$663,348

Project Description: Develop a data integration platform for existing storm-related resources that will especially benefit U.S. States affected by Hurricane Sandy. Project will improve access and intuitive data interpretation for all users including decision makers.

Assessing Coastal Impoundment Vulnerability and Resilience in the Northeast

New Jersey Audubon Society

Grant Award:	\$451,093
<u>Matching Funds:</u>	<u>\$170,000</u>
Total Project Funds:	\$621,093

Project Description: Evaluate the Northeast's coastal impoundment vulnerability and resilience with national parks, refuges, and state lands of Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Rhode Island, and Virginia. Project will reduce risk to nearby communities and identify restoration efforts that will strengthen impoundment resiliency.
