



National Coastal Resilience Fund

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PROGRAM PARTNERS

- National Oceanic and Atmospheric Administration
- U.S. Department of Defense
- Shell USA
- Occidental

ABOUT NFWF

Chartered by Congress in 1984, the National Fish and Wildlife Foundation (NFWF) protects and restores the nation's fish, wildlife, plants and habitats. Working with federal, corporate and individual partners, NFWF has funded more than 6,800 organizations and generated a total conservation impact of more than \$10 billion.

Learn more at www.nfwf.org



Coastal flooding

OVERVIEW

The National Fish and Wildlife Foundation (NFWF) and the National Oceanic and Atmospheric Administration, along with the U.S. Department of Defense, Shell USA and Occidental, announced a 2024-year round of funding for National Coastal Resilience Fund projects. Ninety-four new or continuing coastal resilience grants totaling \$139 million were awarded. The 94 awards announced leveraged more than \$141 million in matching contributions from the grantees, providing a total conservation impact of \$280 million.

(continued)

ALASKA**Building Municipal Capacity for Coastal Resilience Planning in Rural Alaska (AK)**

Grantee: Alaska Municipal League - Juneau, AK

Grant Amount:..... \$819,200

Matching Funds:..... \$50,000

Total Project Amount:..... \$869,200

Increase the capacity of Alaska's coastal communities to mitigate and proactively adapt to impacts of a changing climate through interjurisdictional coordination, training, feasibility studies, stakeholder engagement, education and outreach. Project will establish a cohort of five to 10 local resilience planning committees to conduct site feasibility studies identifying coastal resilience solutions, with a focus on nature-based approaches.

Landscape Planning and Mapping Salmon Habitat for Protection in the Kenai Peninsula Borough (AK)

Grantee: Kenai Watershed Forum

Grant Amount:..... \$550,700

Matching Funds:..... \$120,500

Total Project Amount:..... \$671,200

Modernize and expand hydrological and ecological information used for infrastructure planning in Alaska's Kenai Peninsula Borough. Project will use advanced mapping techniques and an existing network of partners to improve maps of 2,000 miles of wild fish stream habitat and 21,000 acres riparian floodplain used for permitting and land planning.

Planning Peatland Restoration in the Southern Kenai Peninsula (AK)

Grantee: Alaska Wildlife Alliance

Grant Amount:..... \$398,500

Matching Funds:..... \$29,100

Total Project Amount:..... \$427,600

Develop a plan to use beavers and beaver dam analogs at scale to restore peatlands in the Kenai Peninsula. Project will build off previous efforts and begin planning at scale for improved coastal resilience from storms, erosion and saltwater intrusion.

Utilizing Indigenous Knowledge for Socioeconomic and Ecosystem Resilience Watershed Design (AK)

Grantee: The Native Village of Paimiut

Grant Amount:..... \$789,100

Matching Funds:..... \$61,000

Total Project Amount:..... \$850,100

Design salmon habitat restoration across watersheds, inform management plans, enhance workforce development opportunities and increase food security in west, southwest and southeast Alaska. Project will engage Tribal and community members in resilience planning; increase capacity; inform local, federal and intergovernmental management plans; develop replicable resilience toolkits; and increase partnerships with stakeholders, private industry and the public.

CARIBBEAN**Combining Coral Restoration and Structural Augmentation for Coastal Resilience in St. Croix (VI)**

Grantee: Coral Restoration Foundation

Grant Amount:..... \$320,000

Matching Funds:..... \$78,700

Total Project Amount:..... \$398,700

Create a hybrid approach to enhance coastal resilience by combining traditional coral restoration with the structural augmentation of innovative coral restoration technology at Long Reef. Project will submit permits to pilot a novel restoration technology, produce corals to augment the engineered structure and evaluate solutions before large-scale implementation.

Conducting a Site Assessment and Creating a Preliminary Design to Protect Habitats in Loiza (PR)

Grantee: University of Puerto Rico at Aguadilla

Grant Amount:..... \$1,586,000

Matching Funds:..... \$196,000

Total Project Amount:..... \$1,782,000

Conduct a site assessment and create a preliminary design for the ecological restoration of the highly vulnerable and underrepresented Medianía Alta area in Loiza, Puerto Rico. Project will create a community-centered design focusing on removal of coastal debris and implementation of nature-based solutions to enhance protection from coastal hazards and improve habitats for fish and wildlife.



Volunteer with a minnow trap

(continued)



Bay City flooding

Creating a Conservation Plan for the Cucharillas Marsh Nature Reserve (PR)

Grantee: Caras
 Grant Amount:..... \$110,000
 Matching Funds:..... \$193,200
 Total Project Amount:..... \$303,200

Create the first official comprehensive conservation plan to protect 1,200 acres of local marshland and enhance coastal resilience. Project will engage stakeholders including local communities, landowners and relevant agencies to create a participatory long-term conservation plan to facilitate the design and implementation stages of nature-based projects to address the Cucharillas Marsh Nature Reserve’s fragmentation.

Enhancing Coastal Community Resilience on Culebra Island (PR)

Grantee: Protectores de Cuencas
 Grant Amount:..... \$5,469,300
 Matching Funds:..... \$2,701,000
 Total Project Amount:..... \$8,170,300

Create hybrid living shorelines adjacent to roadways on Culebra Island to reduce flood risks and adapt to sea-level rise. Project will enhance coastal habitats and improve residents’ access to vital infrastructure by preventing closure of important roadways due to flooding.

Planning the Restoration of the Eastern Segment of the San Juan Barrier Reef (PR)

Grantee: Sail for Reefs
 Grant Amount:..... \$1,000,000
 Matching Funds:..... \$97,500
 Total Project Amount:..... \$1,097,500

Finalize plans and initiate permitting for the restoration of the eastern segment of the San Juan Barrier Reef in northern Puerto Rico. Project will establish a land-based coral nursery, finalize assessment and planning of optimal restoration sites, increase spatial characterization knowledge and expand outreach efforts.

GREAT LAKES

Advancing Nature-based Coastal Resilience across the Great Lakes Region (IL, MI, MN, NY, OH, WI)

Grantee: Great Lakes and St. Lawrence Cities Initiative
 Grant Amount:..... \$1,773,200
 Matching Funds:..... \$172,700
 Total Project Amount:..... \$1,945,900

Advance six projects through site assessment and preliminary design, expanding stakeholder engagement and showcasing demonstration sites within various cities. Project will utilize nature-based solutions to restore habitat and improve resilience in shoreline communities along the Great Lakes.

Building Capacity for Euclid and Sims Park Shoreline Protection (OH)

Grantee: City of Euclid
 Grant Amount:..... \$243,200
 Matching Funds:..... \$48,600
 Total Project Amount:..... \$291,800

Conduct collaborative workshops and community engagement to build capacity to restore a half mile of Lake Erie’s shoreline in the City of Euclid. The project will explore nature-based solutions to combat erosion, stabilize the shoreline and enhance natural habitat.

Building Community Resilience in the Calumet Region (IL, IN)

Grantee: Shirley Heinze Land Trust
 Grant Amount:..... \$999,500
 Matching Funds:..... \$135,400
 Total Project Amount:..... \$1,134,900

Build relationships among communities, community-based organizations and municipalities to create a comprehensive and adaptive plan for improving resilience in the Calumet region. Project will develop a living document that can adapt and evolve to community needs, develop nature-based solutions and prioritize projects for future implementation that will build community resilience and enhance habitat.

Creating Coastal Wetlands and Enhancing Nearshore Habitat in Osborne Park (OH)

Grantee: City of Willoughby

Grant Amount:..... \$3,000,000
 Matching Funds:..... \$8,897,900
 Total Project Amount:..... \$11,897,900

Create a hybrid living shoreline, build coastal and upland wetlands, and restore a bluff using native landscaping that will benefit pollinators in Osborne Park. Project will reduce community exposure to coastal storms, flooding and erosion while enhancing habitat for fish and wildlife.

Designing Nature-Based Solutions for Ecorse Creek Stream Corridor Restoration (MI)

Grantee: Downriver Community Conference

Grant Amount:..... \$960,000
 Matching Funds:..... \$20,000
 Total Project Amount:..... \$980,000

Develop 30 percent preliminary designs to address flooding, floodwater storage and reconnecting floodplains with wetlands along a 7.5-mile stretch of the North Branch of Ecorse Creek. Project will design nature-based solutions to reduce flood risk and restore critical habitat while engaging the community in the decision-making process.

Final Design and Permitting for Habitat Restoration of Milwaukee River Oxbow Connection (WI)

Grantee: Ozaukee County, Wisconsin

Grant Amount:..... \$250,000
 Matching Funds:..... \$1,000,000
 Total Project Amount:..... \$1,250,000

Complete final design and permitting to improve floodplain connectivity for aquatic species passage in the Milwaukee River oxbow. Project will design nature-based solutions for a resilient holistic riparian floodplain, wetlands and historic Milwaukee River oxbow habitat restoration.



Black-crowned night-heron

Permitting for Inner Sandusky Bay Wetlands Restoration (OH)

Grantee: The Nature Conservancy

Grant Amount:..... \$393,500
 Matching Funds:..... \$120,000
 Total Project Amount:..... \$513,500

Coordinate permitting the Inner Sandusky Bay Wetlands restoration project, a 500-acre in-water wetland complex. Project will provide wave-reduction benefits while fundamentally transforming and restoring ecosystem functionality to Lake Erie's largest drowned river mouth.

Planning Community Resilience in the Drowned River Mouth Systems of Coastal Lake Michigan (MI)

Grantee: West Michigan Shoreline Regional Development Commission

Grant Amount:..... \$200,200
 Matching Funds:..... \$6,000
 Total Project Amount:..... \$206,200

Collaborate with community leaders and stakeholders to determine the resilience needs of coastal Lake Michigan and its associated drowned river mouth systems in West Michigan. Project will prioritize nature-based projects for future designs and implementation projects that will reduce the risk of coastal hazards, while enhancing habitat and benefiting native wildlife.

Restoring Huron River and Improving Fish Passage in Ypsilanti (MI)

Grantee: City of Ypsilanti

Grant Amount:..... \$7,500,000
 Matching Funds:..... \$5,896,700
 Total Project Amount:..... \$13,396,700

Restore Huron River to a free-flowing waterway to enhance habitat for walleye, smallmouth bass, white bass and sensitive native mussel species while providing risk reduction benefits to Ypsilanti. Project will contribute to the city's goals of sustainable infrastructure, improved water quality and habitat of the Huron River, and enhance community resilience to a changing climate.

GULF

Assisting Gulf Coast Community-based Organizations Plan for Coastal Resilience (AL, LA, MS)

Grantee: Anthropocene Alliance

Grant Amount:..... \$482,600
 Matching Funds:..... \$200,000
 Total Project Amount:..... \$682,600

Build capacity for community-based organizations in Alabama, Louisiana and Mississippi to begin coastal resilience planning. Project will support community-based organizations, develop protocols for nature-based solutions that protect flood-prone communities and enhance wildlife habitats in three of the highest risk states in the nation.



Alligator

Building Capacity for Community Resilience and Ecosystem Restoration in Grand Caillou/Dulac (LA)

Grantee: Consensus Building Institute
 Grant Amount:..... \$563,400
 Matching Funds:..... \$40,000
 Total Project Amount:..... \$603,400
 Build community capacity for resilience planning to address threats from flooding, storms and erosion. The project will create a coastal resilience plan that establishes long-term community vision and goals, evaluates and communicates forecasted risk, maps community assets and prioritizes a suite of nature-based solutions to restore vital habitat.

Building Regional Resilience in Community-Based Organizations across Coastal Texas (TX)

Grantee: Coalition for Environment, Equity, and Resilience
 Grant Amount:..... \$684,100
 Matching Funds:..... \$24,100
 Total Project Amount:..... \$708,200
 Identify suitable nature-based solutions through a collaborative of nine community-based organizations in five counties along the Texas Gulf Coast. Project will develop plans to restore degraded wetland habitat and protect flood-prone communities.

Constructing Marsh Terraces in the Upper Barataria Basin of Jefferson Parish - Phase II (LA)

Grantee: Jefferson Parish Department of Environmental Affairs
 Grant Amount:..... \$1,321,600
 Matching Funds:..... \$73,100
 Total Project Amount:..... \$1,394,700
 Restore 150 acres of former brackish marsh habitat by constructing 12,000 linear feet of marsh terraces from on-site material stabilized with native marsh vegetation in the Upper Barataria Basin. Project will reduce wave fetch on the southeast side of the Barataria Marsh Creation Project and expand Jefferson Parish’s multiple lines of defense to increase its overall resilience and protection from coastal storms.

Creating a Coastal Master Plan in Tampa Bay (FL)

Grantee: Tampa Bay Regional Planning Council
 Grant Amount:..... \$1,993,500
 Matching Funds:..... \$175,500
 Total Project Amount:..... \$2,169,000
 Develop a suite of nature-based solution projects through modeling and community engagement to build resilience against compound flooding events. Project will catalyze efforts to reduce flood risks for Tampa Bay’s vulnerable communities and habitats.

Creating Preliminary Design for a Living Shoreline along Choctawhatchee Bay (FL)

Grantee: Okaloosa County
 Grant Amount:..... \$750,000
 Matching Funds:..... \$100,000
 Total Project Amount:..... \$850,000
 Conduct site assessments and create preliminary designs to support the implementation of a large-scale living shoreline to improve community resilience from extreme coastal erosion and enhance marine habitat in Choctawhatchee Bay. Project will create a preliminary design for a 4,500-linear-foot living shoreline alongside a highly vulnerable and vital section of Highway 98 in Florida.

Creating Preliminary Design to Mitigate Coastal Erosion near MacDill Air Force Base (FL)

Grantee: The Water Institute of the Gulf
 Grant Amount:..... \$1,249,400
 Matching Funds:..... \$850,000
 Total Project Amount:..... \$2,099,400
 Enhance community resilience and create estuarine habitat through planning and preliminary design of a system of nature-based solutions offshore of MacDill Air Force Base. Project will create designs to restore the eroded shallow shelf habitat and construct a longshore bar system, which will create low-energy areas for submerged aquatic vegetation and build low-lying islands.

Designing Living Shoreline Protection for Caad Kuujaamnix/Bayou Sale in St. Mary Parish (LA)

Grantee: Wayti Services
 Grant Amount:..... \$1,632,400
 Matching Funds:..... \$0
 Total Project Amount:..... \$1,632,400
 Assess and design the Caad Kuujaamnix/Bayou Sale living shoreline, advancing the plans to 95 percent completion and finalizing permits. Project will reduce wave energy and erosion while benefiting wildlife and fisheries that are important to the Chitimacha Tribe such as black bear, shrimp, redfish and bass.

Designing Marsh Restoration on South Avery Island (LA)

Grantee: McIlhenny Resources
 Grant Amount:..... \$500,000
 Matching Funds:..... \$0
 Total Project Amount:..... \$500,000
 Create designs to restore brackish marsh habitat on South Avery Island through the creation of a living shoreline. Project will develop designs for 152 acres of marsh creation and an additional 48 acres of marsh enhancement to improve the health of intermediate marsh and support a diverse community of fish and wildlife species.

Designing Oyster Reefs Living Shorelines to Protect North Beach in Corpus Christi (TX)

Grantee: Coastal Bend Bays and Estuaries Program
 Grant Amount:..... \$932,500
 Matching Funds:..... \$50,000
 Total Project Amount:..... \$982,500
 Complete the final design and bid package for an oyster living shoreline and five conservation islands to protect the historic North Beach and surrounding essential infrastructure in Corpus Christi, Texas. Project will reduce wave energy and erosion from coastal hazards while restoring marsh and seagrass habitat.

Develop Designs to Increase Resilience and Habitat in the Baffin Bay Watershed (TX)

Grantee: Texas A&M University - Corpus Christi
 Grant Amount:..... \$197,700
 Matching Funds:..... \$0
 Total Project Amount:..... \$197,700
 Develop preliminary designs and conduct site assessments to support implementation of natural infrastructure in the Baffin Bay watershed. Project will guide improvements that increase community resilience, create habitat and reduce pollutants that cause water quality degradation in Baffin Bay.

Developing Plans to Restore Wetlands across the Lower Ninth Ward in New Orleans (LA)

Grantee: Sankofa Community Development Corporation
 Grant Amount:..... \$800,000
 Matching Funds:..... \$277,000
 Total Project Amount:..... \$1,077,000
 Assess and design nature-based solutions to restore and

expand more than 560 acres of wetlands to increase protection from coastal hazards for communities across the Lower Ninth Ward in New Orleans. Project will improve fish and wildlife habitats, address soil subsidence and flood risks, and enhance native flora and fauna through sustainable approaches to coastal resilience.

Finalizing Designs for the Creation and Rehabilitation of Marsh on Fifi Island (LA)

Grantee: Grand Isle Independent Levee District
 Grant Amount:..... \$2,618,500
 Matching Funds:..... \$0
 Total Project Amount:..... \$2,618,500
 Finalize designs and permits for marsh and shoreline restoration around Fifi Island to provide storm protection. Project will, when constructed, mitigate erosion, provide increased storm protection and improve resilience while enhancing bird habitat for hundreds of species including the least tern and seaside sparrow.

Port Fourchon Terracing and Living Shoreline Project - Phase II (LA)

Grantee: Ducks Unlimited
 Grant Amount:..... \$4,182,400
 Matching Funds:..... \$400,000
 Total Project Amount:..... \$4,582,400
 Construct earthen marsh terraces and vegetative plantings to increase the resilience of surrounding critical infrastructure and facilities, vital transportation routes, natural resources and coastal communities adjacent to Port Fourchon in the lower Barataria Basin, Louisiana. Project will create 76,000 linear feet of emergent marsh habitat and protect existing marsh in the Port Fourchon area.



Seaside sparrow



Osprey

Utilizing Nature-Based Solutions to Design a Resilient Keegan Bayou Near Keesler Air Force Base (MS)

Grantee: Mississippi State University
 Grant Amount:..... \$430,300
 Matching Funds:..... \$1,200
 Total Project Amount:..... \$431,500

Design a naturalized waterway with a tidal flood management cross section as a replacement for the concrete channel in a low-income residential neighborhood of East Biloxi. Project will design nature-based solutions to absorb and filter stormwater, while the land around the bayou in the flood zone will be designed as a resilient and innovative park that can serve the community of Biloxi and Keesler Air Force Base.

MID-ATLANTIC

Assessing Innovative Living Shoreline in Eastern Shore, Maryland

Grantee: Eastern Shore Land Conservancy
 Grant Amount:..... \$170,100
 Matching Funds:..... \$0
 Total Project Amount:..... \$170,100

Conduct site assessments, a living shoreline educational workshop and implement a pilot demonstration site to assess suitability of QuickReef living shorelines along Maryland's

Eastern Shore. Project will determine future transferability and scalability of the practice within the mid- and upper-Chesapeake Bay region.

Completing Final Design for Hoopersville Living Shoreline (MD)

Grantee: Dorchester County Council
 Grant Amount:..... \$1,500,000
 Matching Funds:..... \$48,900
 Total Project Amount:..... \$1,548,900

Develop final designs using living shoreline techniques to restore coastal marshes and protect Hoopersville Island in Dorchester County, Maryland. Project will construct stone breakwaters, create a marsh terrace, enhance marsh habitat and protect Hoopersville Road to increase resilience against sea-level rise and storms.

Constructing Living Shoreline for Flood Resilience and Biodiversity in Borough of Avalon (NJ)

Grantee: Borough of Avalon
 Grant Amount:..... \$1,000,000
 Matching Funds:..... \$1,000,000
 Total Project Amount:..... \$2,000,000

Create over 750 feet of vegetated living shoreline with native plantings and a pollinator garden, a sandy terrapin nesting habitat, and a terrapin barrier and flood resilience curb. Project will stabilize the shoreline and reduce sunny day flooding and inundation of roads and utilities during storms, serving as a model for other resilience projects within Cape May County.

Creating Final Designs for South River Ecosystem Restoration and Flood Resilience (NJ)

Grantee: The Borough of Sayreville
 Grant Amount:..... \$1,570,400
 Matching Funds:..... \$0
 Total Project Amount:..... \$1,570,400

Collaborate with partners to complete final design for the restoration of 188 acres of wetland and upland habitat, which will improve habitats for ospreys, bald eagles and terrapins. Project will restore the South River wetland ecosystem to enhance flood resilience.

Designing Habitat Restoration and Green Stormwater Management in Cambridge, Maryland

Grantee: City of Cambridge, Maryland
 Grant Amount:..... \$2,227,000
 Matching Funds:..... \$3,100,000
 Total Project Amount:..... \$5,327,000

Design a 1.6-mile living shoreline along the Choptank River that integrates green infrastructure to improve flood protection, water quality, and restore fish and wildlife habitat. Project will implement a comprehensive resilience plan that will provide large-scale flood mitigation to the city's citizens, properties and critical infrastructure from the impacts of a changing climate.

Designing Nature-Based Solutions for Community Adaptation and Resilience in Oyster (VA)

Grantee: The Nature Conservancy

Grant Amount:..... \$1,289,700
 Matching Funds:..... \$75,700
 Total Project Amount:..... \$1,365,400

Complete 90 percent designs and coordinate permitting for multiple nature-based solutions in Oyster, Virginia. Project will provide risk reduction benefits from sea-level rise and flooding for a vulnerable coastal community.

Design Living Shoreline and Oyster Reef Habitat in Port Mahon (DE)

Grantee: University of Delaware

Grant Amount:..... \$1,000,000
 Matching Funds:..... \$0
 Total Project Amount:..... \$1,000,000

Finalize designs and permitting for hybrid living shoreline with oyster reefs and breakwaters in Delaware Bay to reduce erosion of a critical access route and safeguard wildlife. Project will create marsh, subtidal habitat and enhance resilience by protecting community infrastructure and the Dover Air Force Base fuel supply.

Developing Final Design for Back Bay Salt Marsh Restoration and Living Shoreline (NJ)

Grantee: Long Beach Township

Grant Amount:..... \$345,800
 Matching Funds:..... \$37,800
 Total Project Amount:..... \$383,600

Conduct field analysis and assessment to complete final design and permitting to create a hybrid living shoreline along the bay to reduce flooding to critical municipal facilities and improve public access. Project will restore and expand existing tidal salt marsh by creating a marsh sill to reduce flooding, attenuate waves and expand existing marshland habitat.

Developing Nature-Based Solutions to Build Resilience in the Back River Estuary (VA)

Grantee: City of Hampton

Grant Amount:..... \$845,000
 Matching Funds:..... \$142,800
 Total Project Amount:..... \$987,800

Develop a holistic series of nature-based solutions such as thin-layer placement for marsh enhancement, oyster reefs, submerged aquatic vegetation bed restoration and ephemeral islands in the Back River Estuary to enhance coastal resilience. Project will increase marsh resilience to wave action and sea-level rise, reduce flood risk in Back River communities, and improve habitat quality and extent in the estuary.

Developing Tangier Island Shoreline Adaptation Plan (VA)

Grantee: Town of Tangier

Grant Amount:..... \$356,500
 Matching Funds:..... \$28,000
 Total Project Amount:..... \$384,500

Evaluate erosion impacts, assess more than 7 miles of shoreline and inland marsh, prioritize areas for protection and identify projects to preserve Tangier Island. Project will propose mitigation strategies that will prioritize nature-based solutions to strengthen the island's defense against coastal hazards and enrich the natural ecosystem it supports.

Final Design for Transformative Marsh Habitat Restoration in Mobjack Bay (VA)

Grantee: Virginia Marine Resources Commission

Grant Amount:..... \$678,200
 Matching Funds:..... \$0
 Total Project Amount:..... \$678,200

Finalize designs to employ innovative methods to enhance living shoreline and marsh area along Mobjack Bay. Project will optimize designs for restoring marshes, dunes, beaches and seagrass to protect tidal natural resources, the local coastal community and businesses, and historic and key cultural communities.

Restoring Stouts Creek Marsh (NJ)

Grantee: New Jersey Department of Transportation

Grant Amount:..... \$9,740,000
 Matching Funds:..... \$3,790,000
 Total Project Amount:..... \$13,530,000

Restore 96 acres of degraded salt marsh by creating a matrix of low and high marsh habitats that will promote natural tidal flushing, sediment accretion and carbon sequestration while benefiting native vegetation and critically endangered shorebirds, such as the eastern black rail and saltmarsh sparrow. Project will increase coastal resilience by increasing marsh height to help mitigate storm surges, reduce coastal flooding and combat sea-level rise.

Site Assessment and Preliminary Design of Chickahominy Tribal Coastal Resilience Plan (VA)

Grantee: Chickahominy Indian Tribe

Grant Amount:..... \$426,200
 Matching Funds:..... \$31,300
 Total Project Amount:..... \$457,500

Develop preliminary design to protect the Tribe's cultural and natural resources along the James and Chickahominy rivers while preserving habitats for species such as the Atlantic sturgeon, river herring, bald eagle and American black duck. Project will utilize nature-based solutions to address shoreline erosion to build coastal resilience for Tribal properties.

NORTHEAST**Building Capacity to Develop River Crossing Plans in the Merrimack River Watershed (NH)**

Grantee: New Hampshire Department of Environmental Services

Grant Amount:..... \$997,700

Matching Funds:..... \$0

Total Project Amount:..... \$997,700

Empower environmental stakeholders to create a robust, equitable and multibenefit pipeline of stream crossing projects in New Hampshire's coastal watersheds. Project will result in a pipeline of at least 10 restoration projects to expand habitat for native species including American eel, brook trout and American shad, while mitigating flood risk from a 100-year storm event.

Collaborating on Large-Scale Restoration and Resilience Building on Cape Cod (MA)

Grantee: Friends of Herring River

Grant Amount:..... \$6,057,800

Matching Funds:..... \$220,000

Total Project Amount:..... \$6,277,800

Restore three salt marshes through infrastructure replacement and nature-based solutions including sediment redistribution and vegetation management on Cape Cod. Project will restore vast salt marsh habitat that will increase the suitability for species such as the saltmarsh sparrow, rufa red knot and piping plover while also establishing a restoration action team to share strategies, expertise and adaptive management lessons across stakeholders for the benefit of other projects.

Community-Driven Restoration and Resilience in the Bagaduce River Watershed (ME)

Grantee: Maine Coast Heritage Trust

Grant Amount:..... \$2,094,100

Matching Funds:..... \$992,000

Total Project Amount:..... \$3,086,100

Restore tidal flow, marsh habitat, water quality and fish passage in a coastal watershed that flows into a tidal bay. Project will install a set of solutions aimed at restoring a stream and estuary rich with wildlife, while building community resilience for residents dependent on a key connecting roadway.



Red knot

Creating a Living Shoreline in Bayswater Point State Park (NY)

Grantee: New York State Office of Parks, Recreation, and Historic Preservation

Grant Amount:..... \$9,739,100

Matching Funds:..... \$3,527,600

Total Project Amount:..... \$13,266,700

Establish a living shoreline with wave attenuation structures to build long-term shoreline resilience, restore a variety of wildlife habitats and protect surrounding residential communities from the impacts of a changing climate at Bayswater Point State Park. Project will create 2,081 linear feet of living shoreline, more than 4 acres of plantings, restore 5.06 acres of tidal marsh habitat via invasive-species management, and expand wetland and adjacent upland forest habitats.

Designing and Permitting for Buttonwood Brook Riparian Restoration (MA)

Grantee: Buzzards Bay Coalition

Grant Amount:..... \$806,800

Matching Funds:..... \$199,100

Total Project Amount:..... \$1,005,900

Advance preliminary designs to final design and permitting phase for restoring degraded floodplain and riparian habitat, and permanently protecting ecologically sensitive land under a conservation restriction. Project will improve ecological function and resilience, create pathways for salt marsh migration, re-establish fish passage and expand flood storage capacity.

Designing Habitat Improvements to Support Newport's Underserved Community (RI)

Grantee: Eastern RI Conservation District (ERICD)

Grant Amount:..... \$680,500

Matching Funds:..... \$600,000

Total Project Amount:..... \$1,280,500

Restore 1,200 linear feet of Elizabeth Brook in Newport, Rhode Island, to reduce flooding and improve coastal resilience through floodplain restoration and riparian buffer creation. Project will develop preliminary design plans for stream restoration, wetland creation and recreational trails to benefit the local community and Naval Station Newport.

Developing Plans for Coastal Habitat Restoration around Mamacoke Island (CT)

Grantee: Connecticut College

Grant Amount:..... \$1,500,000

Matching Funds:..... \$0

Total Project Amount:..... \$1,500,000

Produce designs that enhance and protect 4.03 acres of existing tidal high marsh, re-establish 1.55 acres of tidal low marsh, enhance 3.56 acres of intertidal and subtidal shallows habitat, restore 1,500 linear feet of coastal plain stream and enhance 2.44 acres of riparian buffer in the Thames River estuary. Project designs will help stabilize marsh edges while providing spawning, foraging and refugia habitat for many fish, bird and other wildlife species.

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Corals in Hawai'i

Enhancing Aquatic Habitat and Coastal Resilience in the Trout Brook Watershed (ME)

Grantee: City of South Portland

Grant Amount:.....\$272,100

Matching Funds:.....\$22,100

Total Project Amount:.....\$294,200

Design five Stream Smart culverts, multiple green stormwater infrastructure components and hydrologic improvements in the Sawyer Marsh to strengthen coastal resilience in the Trout Brook watershed. Project will also remove barriers to fish passage to improve water quality and riparian habitat.

Implementing a Living Shoreline in the Shinnecock Indian Reservation (NY)

Grantee: Shinnecock Indian Nation

Grant Amount:.....\$1,116,700

Matching Funds:.....\$0

Total Project Amount:.....\$1,116,700

Restore 3,000 linear feet of eroded and degraded tidal marsh on the Shinnecock Indian Reservation using a modified marsh toe revetment approach. Project will prevent loss of sacred Tribal lands while protecting natural areas, homesites and a historic burial ground.

Implementing Nature-based Solutions in Rhode Island

Grantee: Rhode Island Department of Environmental Management

Grant Amount:.....\$1,800,000

Matching Funds:.....\$1,431,700

Total Project Amount:.....\$3,231,700

Restore Mill Creek with box culverts, native vegetation, coir logs and other nature-based solutions to improve local salt marsh habitat. Project will accommodate marsh migration based on current sea-level rise projections and protect critical infrastructure from flooding and storm surge.

Restoring Dunes for Coastal Resilience on the Rockaway Peninsula (NY)

Grantee: Rockaway Waterfront Alliance

Grant Amount:.....\$2,555,700

Matching Funds:.....\$285,000

Total Project Amount:.....\$2,840,700

Restore coastal dunes using nature-based solutions that result in an extensive, biodiverse and habitat-rich double dune system through an integrated community-driven framework. Project will restore 15 acres of coastal dunes along the Rockaway Peninsula's Atlantic shoreline and utilize education, training and workforce development as drivers for long-term dune enhancement.

PACIFIC ISLANDS

Building a Resilient Ala Wai Watershed through Green Infrastructure Designs (HI)

Grantee: Hawai'i Local2030 Hub

Grant Amount:.....\$496,500

Matching Funds:.....\$500,000

Total Project Amount:.....\$996,500

Design up to six green infrastructure projects across commercial, public and residential properties to mitigate stormwater runoff and recharge aquifers. Project will reduce flood risk, mitigate pollution to nearshore marine habitats, maintain adequate drinking water supplies and build community resilience.

Building Community Resilience through Ecological Restoration on Molokai - Phase II (HI)

Grantee: State of Hawai'i, Department of Land and Natural Resources

Grant Amount:.....\$1,670,800

Matching Funds:.....\$289,300

Total Project Amount:.....\$1,960,100

Protect and restore native vegetation through fencing, animal removal and firebreak improvements to benefit vulnerable communities and coral reefs. Project will protect more than 5,000 acres of native forest and reduce sedimentation of coral reefs by improving infiltration rates to reduce erosion and flooding through proven forest-protection strategies that will safeguard the natural infrastructure that protects south Molokai.

Building Regional Resilience through Community-based Organizations in American Samoa (AS)

Grantee: Anthropocene Alliance

Grant Amount:.....\$701,700

Matching Funds:.....\$4,500

Total Project Amount:.....\$706,200

Identify nature-based solutions with community-based organizations and establish a technical advisory panel in American Samoa. Project will develop protocols for community-led nature-based solutions for stormwater management and conduct island-wide outreach to schools and the Pacific Island peer-learning network.

(continued)

Community Assisted Native Forest and Marsh Restoration in the Puu o Ehu Watershed (HI)

Grantee: Healthy Climate Communities

Grant Amount:..... \$1,041,800
 Matching Funds:..... \$392,800
 Total Project Amount:..... \$1,434,600

Restore 5 acres with 2,000 native Hawaiian trees on the Puu o Ehu watershed to decrease risks to surrounding infrastructure from wildfire and flooding, as well as enhance wildlife habitat for endemic endangered birds. Project will teach volunteers from local schools and community groups about all phases of forest restoration, cultural history, traditional stewardship practices and the importance of trees, forests and watersheds in climate resilience.

Designing Wetland Restoration for Resilient Communities and Native Waterbirds in Molokai (HI)

Grantee: Molokai Land Trust

Grant Amount:..... \$919,400
 Matching Funds:..... \$68,900
 Total Project Amount:..... \$988,300

Build on previous wetland prioritization planning and Molokai Wetland Partnership work to identify suitable wetlands for restoration on Molokai. Project will develop final design for two prioritized sites, conduct environmental compliance assessments, apply for permits, engage landowners and increase community capacity to restore and maintain wetlands.

Expanding Coral Reef Restoration Capacity and Species Diversity through Large-Scale Restoration (GU)

Grantee: Guam Department of Agriculture

Grant Amount:..... \$1,999,600
 Matching Funds:..... \$59,200
 Total Project Amount:..... \$2,058,800

Increase coral cover, species diversity and reef complexity at four high-priority restoration sites to improve fish habitat and enhance shoreline protection from flooding and erosion. Project will expand Guam's coral nurseries to a minimum combined capacity of 12,000 corals with a minimum of 10 species and five growth forms to increase live coral material and species diversity for reef restoration around Guam.

Expanding Restoration Capacity and Reconnecting Habitat across Wahikuli Watershed in West Maui (HI)

Grantee: Tipu Tipu Restoration and Sustainability

Grant Amount:..... \$3,057,500
 Matching Funds:..... \$252,500
 Total Project Amount:..... \$3,310,000

Implement nature-based Best Management Practices to sequester sediment along abandoned agricultural roads and protect coral reefs and fisheries through engagement of native Hawaiian interns and volunteers in restoration, seed collection and storage. Project will expand restoration capacity through doubling nursery and seed farm operations and providing workforce training to build local skills in watershed restoration.

Implementing Nature-based Solutions along Saipan's Beach Road Shoreline (MP)

Grantee: Pacific Coastal Research & Planning

Grant Amount:..... \$1,399,300
 Matching Funds:..... \$12,500
 Total Project Amount:..... \$1,411,800

Implement natural shoreline enhancements and support green stormwater infrastructure along the Quartermaster Road intersection in Saipan. Project will create a more resilient shoreline, improve water quality and protect critical habitat and infrastructure along Saipan's most popular recreation corridor.

Malama i Ke Ala Kahakai: Preliminary Design to Protect Shorelines Using Nature-based Solutions (HI)

Grantee: Hawaii Department of Transportation

Grant Amount:..... \$998,800
 Matching Funds:..... \$238,800
 Total Project Amount:..... \$1,237,600

Engage communities from Laie to Kaaawa in Oahu to identify resilience needs and determine suitability of nature-based solutions to protect coastal highways and coastal communities. Project will conduct site assessments along the vulnerable stretch of highway, create a list of community-supported nature-based solutions and develop 30 percent design plans for a community-selected location.

Up-Scaling Coral Reef Restoration to Enhance Coastal Community Resilience in Saipan (MP)

Grantee: Lyza Johnston DBA Johnston Applied Marine Sciences

Grant Amount:..... \$3,772,400
 Matching Funds:..... \$0
 Total Project Amount:..... \$3,772,400

Restore 20 acres of coral reef habitat along the west coast of Saipan with genetically diverse and thermally tolerant coral communities. Project will reduce storm-driven coastal flooding and erosion while also increasing capacity for coral restoration and improving the resilience of coral stock used for restoration.

SOUTHEAST

Building a Watershed Resilience Plan for the St. Marys River and its Community (FL, GA)

Grantee: St. Marys Riverkeeper

Grant Amount:..... \$716,200
 Matching Funds:..... \$49,000
 Total Project Amount:..... \$765,200

Create resilience plans for Camden and Charlton County in Georgia and Nassau County and Baker County in Florida that prioritize up to 10 projects for implementation. Project will develop protocols for community-led nature-based solutions to augment sediment within the watershed, restore wetlands, complete stream daylighting and protect flood-prone communities.



Warsaw Island causeway

Building Capacity for Coastal Resilience through an Integrated Oyster Management Plan (GA)

Grantee: The Nature Conservancy
 Grant Amount:..... \$743,400
 Matching Funds:..... \$0
 Total Project Amount:..... \$743,400

Build capacity through stakeholder engagement and create an oyster management plan that can be shared across coastal Georgia. Project will create a plan that promotes and protects oyster habitat through oyster restoration, living shorelines, sustainable fisheries, shell recycling, education and community engagement, and land protection.

Building Capacity for Green Infrastructure to Improve Resilience in Jacksonville (FL)

Grantee: City of Jacksonville, Florida
 Grant Amount:..... \$100,000
 Matching Funds:..... \$100,000
 Total Project Amount:..... \$200,000

Create a framework for prioritizing green infrastructure projects on public lands to increase resilience and create wildlife habitat. Project will develop a prioritized list of green infrastructure projects to progress toward implementation in the next five years to reduce heat stress, reduce flooding, improve water quality and enhance wildlife habitats.

Building Capacity for Resilience in Beaufort County through Living Shorelines (SC)

Grantee: County of Beaufort
 Grant Amount:..... \$169,700
 Matching Funds:..... \$153,100
 Total Project Amount:..... \$322,800

Create a living shorelines site suitability map, a prioritization matrix for implementation and a training manual for government staff in Beaufort County, South Carolina. Project will produce decision-making tools that increase staff capacity to implement living shorelines on public lands to protect vulnerable communities, critical infrastructure and essential salt marsh habitat.

Conducting a Feasibility Study for Shoreline Stabilization along the Neuse River (NC)

Grantee: University of Georgia
 Grant Amount:..... \$733,900
 Matching Funds:..... \$21,600
 Total Project Amount:..... \$755,500

Conduct a feasibility study and develop engineering designs, prioritizing nature-based solutions, for a shoreline stabilization project along the Neuse River bordering Seymour Johnson Air Force Base. Project will create plans to reduce the erosion of 3,000 feet of shoreline while delivering community and ecological resilience benefits on site and downstream.

Creating a Resilience Plan and Designs for Coastal Marsh Restoration on Sapelo Island (GA)

Grantee: University of Georgia Research Foundation
 Grant Amount:..... \$820,500
 Matching Funds:..... \$107,900
 Total Project Amount:..... \$928,400

Develop hydrodynamic models to assess flooding on the eastern shore of Sapelo Island and generate preliminary designs for marsh reconnection. Project will create a resilience plan to reduce flooding for the local community in Hog Hammock and improve oyster habitat.

Developing Designs for Floodplain and Wetland Creation in Newport and North River (NC)

Grantee: North Carolina Coastal Federation
 Grant Amount:..... \$1,313,700
 Matching Funds:..... \$813,500
 Total Project Amount:..... \$2,127,200

Complete final designs for the restoration of three tracts of forested wetlands previously ditched and drained on the Newport and North rivers in Carteret County, North Carolina. Project will design 2,277 acres of floodplain and wetland habitats that will reduce downstream flooding and improve water quality in adjacent estuaries.

Identifying Nature-based Solutions to Protect Communities and Improve Habitats on Deveaux Bank (SC)

Grantee: South Carolina Office of Resilience
 Grant Amount:..... \$209,400
 Matching Funds:..... \$25,000
 Total Project Amount:..... \$234,400
 Assess sediment movement on and around Deveaux Bank to identify nature-based solutions for the protection of seabird habitat and nearby coastal communities. Project will enhance coastal resilience planning strategies, safeguard critical nesting areas and support biodiversity conservation.

Implementing Marsh Restoration to Build Community Resilience and Habitat in Currituck Sound (NC)

Grantee: National Audubon Society
 Grant Amount:..... \$3,056,700
 Matching Funds:..... \$319,300
 Total Project Amount:..... \$3,376,000
 Implement four innovative pilot marsh restoration projects at Pine Island Sanctuary in the Currituck Sound. Project will reduce flood risk for nearby communities while also assessing the effectiveness and scalability of new marsh restoration techniques to inform regional best practices.

Integrating Resiliency into Land Use Plans for Coastal Communities (NC)

Grantee: North Carolina Department of Environmental Quality
 Grant Amount:..... \$1,999,900
 Matching Funds:..... \$250,000
 Total Project Amount:..... \$2,249,900
 Integrate resiliency strategies into Coastal Area Management



Whimbrel

Act Land Use Plans for 20 coastal communities. Project will assist a new cohort of communities through the Resilient Coastal Communities Program planning process to enhance capacity to address climate hazards.

Planning for Flood Resilience and Habitat Restoration in the Indian River Lagoon (FL)

Grantee: Little Growers
 Grant Amount:..... \$671,400
 Matching Funds:..... \$21,100
 Total Project Amount:..... \$692,500
 Identify nature-based solutions in the Indian River Lagoon to protect flood-prone communities across Brevard County. Project will allow underserved communities to develop protocols for community-led nature-based solutions that will advance efforts to restore wetlands, seagrass habitats, mangrove forests and oyster reefs.

Preparing Final Designs and Permits for the Miami Legion Park Living Shoreline (FL)

Grantee: City of Miami
 Grant Amount:..... \$707,700
 Matching Funds:..... \$458,300
 Total Project Amount:..... \$1,166,000
 Design and permit a living shoreline at Legion Park in Miami with marsh grasses, mangroves, native trees, tide pools, oyster reefs and a berm with a soft shell trailway. Project will protect the heavily developed inland from storm surge and tidal flooding while reducing erosion, improving water quality and creating marine habitat.

Restoring Coastal Dunes through Native Vegetation Planting in Volusia County (FL)

Grantee: Volusia County
 Grant Amount:..... \$2,576,800
 Matching Funds:..... \$82,914,900
 Total Project Amount:..... \$85,491,700
 Restore coastal dune habitat by planting native vegetation to strengthen community resilience to storm events and improve threatened and endangered species habitat. Project will enhance 13 miles of primary dune habitat from Ormond Beach to New Smyrna Beach, Florida, and educate beachside communities on large-scale coastal resilience.

WEST COAST

Building Capacity and Restoration Planning at Samoa Dunes and Wetlands (CA)

Grantee: Wiyot Tribe
 Grant Amount:..... \$250,000
 Matching Funds:..... \$0
 Total Project Amount:..... \$250,000
 Develop a restoration and management plan for the 357-acre Samoa dunes and wetlands property in Humboldt Bay, California. Project will fund Wiyot staff to patrol the property, collect data and engage the community to inform coastal resilience planning efforts.

Creating Final Designs for Restoration at Hobuck Beach (WA)

Grantee: Makah Tribe

Grant Amount:.....\$110,900

Matching Funds:.....\$0

Total Project Amount:.....\$110,900

Advance preliminary designs to a final design package for approximately 0.15 miles of beach habitat using a dynamic cobble berm, sand nourishment and engineered log jams. The project designs will protect critical infrastructure from coastal erosion, provide long-term shoreline restoration, and improve the ecological, economic and aesthetic functions of the site.

Designing and Assessing Mainstem Sites for Salmonid Habitat in Elk River (CA)

Grantee: California Trout

Grant Amount:.....\$3,836,900

Matching Funds:.....\$0

Total Project Amount:.....\$3,836,900

Conduct a site assessment and prepare 65 percent engineering designs to restore a section of mainstem salmonid habitat, tens of acres of riparian habitat and four tributary confluences along the Elk River. Project will reduce flooding impacts to approximately 15 homes and four bridges and restore safe passage for hundreds of residents who lack alternative access during floods.

Developing Designs to Protect Coastal Wetlands along the Tillamook River (OR)

Grantee: Tillamook Estuaries Partnership

Grant Amount:.....\$1,097,500

Matching Funds:.....\$84,000

Total Project Amount:.....\$1,181,500

Develop preliminary designs to replace the primary connecting road between Highways 101 and 131 and allow for tidal estuary reconnection. Project will facilitate the closure of a failing road segment, improve 4.4 miles of nearby infrastructure for flood control and resilience and restore 73 acres of tidal wetland habitat along the Tillamook River.

Developing Designs to Restore Fluvial Processes for Lake Ozette (WA)

Grantee: Wild Salmon Center

Grant Amount:.....\$323,000

Matching Funds:.....\$7,500

Total Project Amount:.....\$330,500

Develop engineering designs to restore fluvial processes and improve climate resilience for critical sockeye salmon habitat in Lake Ozette, Washington. The project will result in 60 percent designs and permitting requirements for the removal of an abandoned railroad segment and replacement of a fish barrier culvert, restoring access to 1 mile of stream and floodplain habitat.

Developing Planning Resources for Armored Shoreline Conversion in Puget Sound (WA)

Grantee: Washington Department of Fish and Wildlife

Grant Amount:.....\$999,000

Matching Funds:.....\$153,500

Total Project Amount:.....\$1,152,500

Build program capacity to convert hardened shoreline to more resilient nature-based solutions in Puget Sound. The project will develop tools, engage communities and design pilot projects to incentivize the conversion of armored shorelines to more natural solutions.

Developing Plans for Living Shorelines along the Santa Ynez River Estuary (CA)

Grantee: Althouse and Meade

Grant Amount:.....\$999,700

Matching Funds:.....\$50,000

Total Project Amount:.....\$1,049,700

Develop plans to create living shorelines and restore habitat in coordination with railroad bridge replacement in the Santa Ynez River Estuary. Project will provide resilience to storms and sea-level rise for local communities, the Vandenberg Space Force Base missions and local fish and wildlife species such as the southern steelhead, tidewater goby, western snowy plover and California least tern.

Enhancing Resilience through Wetland Restoration and Reforestation in Lower Deschutes River (WA)

Grantee: Olympia Ecosystems

Grant Amount:.....\$499,500

Matching Funds:.....\$1,750,000

Total Project Amount:.....\$2,249,500

Reduce flood risk, increase summer water availability and enhance salmonid rearing habitat in lower Deschutes River. Project will develop design alternatives to restore natural processes through floodplain reconnection and enhancement, wetland restoration and reforestation at scale.

Growing Scientific and Planning Capacity for Dune and Canyon Resilience in San Diego County (CA)

Grantee: San Diego Natural History Museum

Grant Amount:.....\$776,700

Matching Funds:.....\$945,200

Total Project Amount:.....\$1,721,900

Build scientific and planning capacity for coastal dune restoration in San Diego County by developing guidelines and site-specific plans for dune and canyon nature-based solutions. Project will produce a plan to restore 50 miles of canyons and 15 miles of coastal dunes while also training 125 individuals in coastal resilience skills to reduce changing climate threats and enhance essential habitats.



Salmon

Planning for Living Shoreline Implementation in Seal Beach National Wildlife Refuge (CA)

Grantee: Orange County Coastkeeper/Inland Empire Waterkeeper

Grant Amount:.....\$711,600
 Matching Funds:.....\$297,500
 Total Project Amount:.....\$1,009,100

Collect preliminary data, strengthen community engagement and develop a plan to address significant erosion through living shoreline implementation in Seal Beach National Wildlife Refuge. Project will utilize native oyster beds, salt marsh plants and eelgrass to improve overall ecosystem function and make the shoreline more resilient to the impacts of a changing climate.

Preliminary Design for Farmland Repurposing in the Pajaro River Estuary (CA)

Grantee: Land Trust of Santa Cruz County

Grant Amount:.....\$996,800
 Matching Funds:.....\$300,000
 Total Project Amount:.....\$1,296,800

Develop initial designs and conduct a site assessment to repurpose marginal farmland to wetland habitat where the Pajaro River meets Monterey Bay. Project will result in 30 percent designs for restoring 65 acres of estuarine habitat as a nature-based solution to buffer inland prime farmland and human infrastructure.

Preliminary Design of Shoreline Restoration and Erosion Stabilization for Baker Bay (WA)

Grantee: Pacific Conservation District

Grant Amount:.....\$450,900
 Matching Funds:.....\$16,200
 Total Project Amount:.....\$467,100

Develop 30 percent designs for erosion control and conduct

a geotechnical assessment along the lower Columbia River to protect Highway 101 and public lands from present and future water levels. Project will protect U.S. Route 101, public parks and private properties while improving conditions for shorebirds and salmon species.

Restoring Deschutes Estuary and Improving Salmon Habitat in Olympia (WA)

Grantee: Washington Department of Enterprise Services

Grant Amount:.....\$1,000,000
 Matching Funds:.....\$9,000,000
 Total Project Amount:.....\$10,000,000

Restore 260 acres of estuary habitat at the mouth of the Deschutes River in Olympia, Washington. Project will reduce flood risk, increase climate resilience and improve habitat for salmon and other species while maintaining transportation connectivity.

Restoring the Stream-Estuary Transition Zone and Creating Habitat for Salmonids in Woods Creek (CA)

Grantee: California State Coastal Conservancy

Grant Amount:.....\$3,547,400
 Matching Funds:.....\$4,225,500
 Total Project Amount:.....\$7,772,900

Improve drainage by widening and deepening channels to reduce chronic flooding of residences in the Wood Creek watershed while providing ecological resilience to sea-level rise by elongating the stream-estuary zone, allowing freshwater and tidal wetland species to migrate upstream. Project will create a salmonid rearing habitat, 1.4 miles of flowing water habitats, and a perennial hydrologic connection between upstream freshwater wetlands and downstream tidal wetlands.