APPENDIX B

Project Universe

Table B-1. Project Universe: Nutrient Reduction

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Sarah Howard, The Conservation Fund Scott Edwards, NRCS Louisiana Bridget Collins, National Fish and Wildlife Foundation	Vermillion Parish Working Lands, Water, and Wildlife Partnership	The "Vermillion Parish Working Lands, Wildlife and Water Partnership" project aims to permanently conserve working lands, with substantial natural resource value, through the purchase of conservation easements. Live Oak Farm, the project focus, is under threat of conversion, with potential for loss of wildlife habitat and further water quality degradation, which are critical to the economy and environment both locally and across the Gulf of Mexico. Live Oak Farm, a 5,800 acre property producing rice, crawfish, cattle, and alligator, is recognized as one of the southermmost remaining rice farms in Louisiana. The producers at Live Oak have taken active measures to improve water quality and reduce runoff. It is also a significant resource for migratory birds, with up to 70,000 waterfowl wintering on this acreage annually. A conservation easement would protect the use of the site as working lands and would allow for continued stewardship of the property, contributing to the conservation solution for the region. The project will be completed with separate funds. The target area is part of the Vermilion-Teche River Basin and the Vermilion Watershed (HUC 08080103). Live Oak Farm is located within the 060802 sub-segment. Louisiana's 2014 Water Cuality Integrated Report indicated that this sub-segment was not meeting the designated use standards for Primary Contact Recreation, Secondary Contact Recreations (BMPs) to reduce enon-point source pollutant runoff and protect sensitive wetland and riparian areas within the property. A significant investment has been made in a tail water recovery system that effectively minimizes entering downstream, but require continued investment for effective ongoing operation. In addition to farming BMPs, the owner has invested significant resources into the restoration and continued management of the sites' wetlands and marshes. It is our intention to preserve working lands like Live Oak Farm as an example of best practices for agricultural production and pretection of downstream water qu	Vermillion Parish	\$8,700,000 total project cost; Requested \$1,000,000
Vincent Guillory, Lafourche Parish Game and Fish Commission Leslie Suazo, Ducks Unlimited Andrew Barron, Barataria - Terrebonne National Estuary Program Amanda Voisin, Lafourche Parish Government	Lake Fields and Lake Long Water Quality Restoration Plan	The original Lake Fields restoration plan was developed in 2008 by the Lafourche Parish Game and Fish Commission (Commission) with input from a number of conservation organizations and governmental institutions, including Ducks Unlimited (DU), Barataria-Terrebone National Estuary Program (BTNEP), Louisiana Department of Wildlife and Fisheries (LDWF), LS. National Resources Conservation Service (NRCS), and the North Lafourche Levee District (NLLD), Lake Fields and Lake Long are located within the Lake Fields Game and Fish Preserve (Preserve), which is west of Lockport, south of U.S. Highway 90, and north of the Guf Intracoastal Waterway (GIWW) in Lafourche Parish, Louisiana and within an inter-levee basis between the Bayou Lafourche natural ridge to the east 37.% agriculture/conjenal/grasslamd, 20% fresh marsh, 18.4% wetland forests, 9.4% urban, and 8.5% water, with the remainder miscellaneous forests or wetlands. Lake Fields is approximately 2000 acres in size while Lake Long is approximately 600 acres in size. Both lakes are spalal and average approximately three to four feet in depth. Nearby important water bodies include Bayou Folse, Bayou DuMar, Company Canal, Commercial Canal, Hollywood Canal, and GIWW (Figures 2 and 3). Except for Lake Fields, Lake Long, and Bayou Leau Bleu, there are no natural water bodies within the Preserve was and remains a popular and heavily utilized recreational area because of close proximity to residential areas, numerous nearby camps, availability of state owned land and water bodies and user bodiers include the upper Bayou Folse Watershed. Bayou Lafourche via Company Canal, This inflow of freshwater, coupled with minimal dally tidal effects, generally produce year round freshwater conditions although periodic seasanal saltwater intrusion may occur from the south via Company Canal, during periods of low reinfall andro low Acthafalay River discharges. Lake Fields Ad Lake Long are Dirake Palae and the Silvity restoration perspective, Bayou Folse is the single most important water	Lafourche Parish	\$700,000 total project cost; Requested \$550,000
James Harris, USFWS	Promote public access and recreational use through hydrologic restoration of Bayou Sauvage channel, Bayou Sauvage NWR	Bucket dredging to restore the channel of Bayou Sauvage, Bayou Sauvage National Wildlife Refuge, Orleans, Parish. Dredge spoil to be used beneficially to restore cypress and live oak along bayou shoreline. This is not a navigation project.	Orleans Parish - Channel of Bayou Sauvage, Bayou Sauvage NWR	\$1,800,000

Agency/Entity/ Person	Project Title	Project Description/ Summary		Estimated/Proposed Project Cost
Natalie Peyronin, Environmental Defense Fund; Rebecca Triche Louisiana Wildlife Federation; Cynthia Duet, National Audubon Society; David Muth, National Wildlife Federation; Simone Maloz, Restore or Retreat	Violet Siphon in Central Wetlands; Maurepas Swamp Diversion; and Create and enhance wetlands and coastal/riparian conservation to protect water quality and remove nutrients and pollution	 Violet Siphon in Central Wetlands: repair cage coupled with hydrologic restoration to divert nutrient-laden water from entering the Gulf of Mexico; 2) East Maurepas Diversion; Create and enhance wetlands and coastal/riparian conservation to protect water quality and remove nutrients and pollution. Pre-construction phases: Requested pre-construction phases of specific projects listed in the 2017 Master Plan are highlighted: a) New Orleans East Land Bridge Creation; b) Golden Triangle Marsh Creation; c) Large-Scale Barataria Marsh Creation; d) Freshwater Bayou North Marsh Creation 	St. Bernard Parish, Orleans Parish, St. Tammany Parish, St. Bernard Parish, Jefferson Parish, Lafourche Parish, Plaquemines Parish, and Vermillion Parish	
Britt Paul, P.E., USDA/NRCS Louisiana Soil and Water Conservation District Louisiana Department of Agriculture and Forestry	Protect and restore water quality, enhance nutrient reduction in Lake Ponchartrain Basin and lower Louisiana Coastal Zone through improved waste management practices at dairy farms in Florida parishes.	The primary goal is to protect and restore water quality while conserving critical habitat within the Lake Pontchartrain Basin and the lower Louisiana Coastal Zone. The ultimate objective of restoring, protecting, and improving water resources and associated habitat value will be achieved by implementing Comprehensive Nutrient Management Planning and Conservation Practices that will improved waste management on dairy operations in the Pontchartrain Basin. This project will restore resources injured by the DWH oil spill as outlined in the DWH PDARP/PEIS following the Natural Resource Damage Assessment process. This project is included within the following restoration goal, restoration type, restoration approach, restoration goal: Restore Water Quality Restoration goal: Restore Water Quality Restoration type: Nutrient Reduction (Non-point source) Restoration approach: Reduce nutrient loads to coastal watersheds Restoration techniques: Agricultural Conservation Practices TIG: Louisiana Restoration Area There are over 100 active diaries in the Lake Pontchartrain Basin (which including Tangipahoa, Washington, St. Helena, and St Tammany Parishes). Typically, these dairies are currently managing the waste component of their respective operations through waste treatment systems that were constructed in the early 1990's. The effluent waste application	Tangipahoa, Washington, St. Helena, St. Tammany	\$1,000,000
		systems of these diaries are obsolete or marginal at best. This program will reduce the discharge of sediments and pollutants from agricultural operations and improve the tributary streams, rivers and groundwater that drain to the Gulf of Mexico. The ecosystems in the project area provide habitat for numerous threatened and endangered plants and animals, which will benefit from the proposed land treatments. The USDA-NRCS will provide technical assistance to voluntary participants (landowners), especially on the most vulnerable acres in the watersheds, to develop conservation plans and would use all available conservation practices typically planned and funded by USDA-NRCS programs. The project proposes to implement clusters of projects within the smallest watershed practicable with the goal of making a measurable difference in water quality at the watershed level. The proposed conservation practices would reduce nutrient loses from the landscape, reduce nutrient loads to streams and downstream receiving waters, and reduce water quality degradation in watersheds that could provide benefits to marine resources and benefits to coastal watersheds. All Conservation Practices implemented will meet USDA, NRCS standards and specifications. A representative within the NRCS Field Office, LDAF and SWCD staff will provide technical assistance to participants in designing and implementing Conservation Practices and assist in providing follow-up technical assistance to project participants for the duration of the project. The SWCD will maintain all appropriate project records. It is estimated that this would result in the development (or modification) of comprehensive nutrient management plans for 15-20 active dairies within the watershed. Nutrient reductions can enhance overall ecosystem health by benefitting water quality in estuaries that are integral habitat for providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species impacted by DWH.		
Britt Paul, P.E., USDA/NRCS Barataria Terrebonne National Estuary Program Louisiana Soil and Water Conservation District Louisiana Department of Agriculture and Forestry	Protect and restore water quality, enhance nutrient reduction in Bayou Folse watershed, Barataria Terrebonne estuary through erosion and sediment control structures on working cropland and pastureland.	The primary goal of this project is to protect and restore water quality in the Barataria Terrebonne Estuary. Reducing nutrient loading into impaired watersheds by avoiding nutrient loss through enhanced nutrient management on private working lands including sugarcane, soybeans and grazing operations. This project will restore resources injured by the DWH oil spill as outlined in the DWH PDARP/PEIS following the Natural Resource Damage Assessment process. This project is included within the following restoration goal, restoration type, restoration approach, restoration technique, TIG, and restoration plan: estoration approach, restoration techniques, TIG, and restoration plan: estoration type: Nutrient Reduction (Non-point source) Restoration techniques: Agricultural conservation practices TIG: Louisiana Restoration Area This project will be carried out through a partnership between the USDA-Natural Resources Conservation Service, Barataria Terrebonne National Estuary Program, Louisiana Department of Environmental Quality, Louisiana Department of Agriculture and Forestry-Office of Soil and Water Conservation, and local Soil and Water Conservation Districts. The Barataria-Terrebonne Estuary is a dynamic working system that supports the people of southeast Louisiana and a diversity of flora and fauna. Farmland runoff containing fertilizers and livestock waste is the main source of the nitrogen and phosphorus, which stimulate an overgrowth of algae that sinks and decomposes in the water. The resulting low oxygen levels are insufficient outrient maagement strategy to protect and restore this ecologically, economically, and socially important ecosystem. The primary goal for the nutrient reduction project is water quality improvement flowality. Buse shows and and the dist shows and ensershore scale project will be stuaries, and the water. Shee Restoration of the acreage is in private ownership (USDA-NRCS 2014) and is used for forestry and agriculture. This watershed-scale project restores water quality impacted by th	Lafourche and Terrebonne Parish	\$2,500,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Scott Mize, U.S.G.S.	Characterization and Trends of existing Coastal Louisiana historical data on nutrient enrichment	Louisiana coastal environments are impacted by nutrient inputs and despite nutrient reduction restoration efforts, concentrations of nitrogen and phosphorus in Gulf waters have increased over the last 50 years (Dagg and Breed, 2003). Excess nutrient inputs to Louisiana's coastal estuaries are associated with harmful algal blooms and oxygen depleted waters - "dead zones". Algal blooms and hypoxic zones in turn negatively impact the spawning habitats and food sources on which the region's economically valuable fisheries rely. The annual summer hypoxic zone in the northern Gulf is the second largest human-caused coastal hypoxic area in the worth, the region's economically valuable fisheries rely. The annual future of the Mississippi Alluvial Plains and Southern Plains Terace and Flatwoods) on which to focus nutrient reduction Task Force has identified three coastal ecoregions (Upper and Lower Mississippi Alluvial Plains and Southern Plains Terrace and Flatwoods) on which to focus nutrient reduction restoration. While much work has been done on nutrients within the MARB, a lack of information on long-term trends in nitrogen and phosphorus loads and concentrations in Louisiana's coastal waters limits managers' ability to determine the degree to which changes in land use, management practices, and water diversions have had an effect on riverine and estuarine water quality. A recent analysis of nutrient concentrations by the Louisiana Department of Environmental Quality (LDEQ, 2015) identified upland nutrient tends and land use contributions to uplands but also in these coastal environments and whether changes in water quality conditions by LDEQ. US Geological Survey (USGS), US Environmental Protection Agency (EPA), and other sins in the set of a subing data at locations that coincide with streamflow, discrete sampling for nutrients, and continuous monitoring of salinity and other properties. These data will be used to develop temporal and spatial characterizations nutrient dynamics within these near-shore basins. USG	Terrebonne Parish	\$1,200,000
Ray Herndon, The Conservation Fund Louisiana Department of Wildlife and Fisheries	Joyce Wildlife Management Area-Land Acquisition	The Conservation Fund is working in partnership with Louisiana Department of Wildlife and Fisheries to acquire 2,975 +/- acres, as an additional to the Joyce Wildlife Management Area (WMA). This acreage is located in Tangipahoa and St. Tammany Parishes, and provides a variety of habitat types, from emergent wetlands, to coastal forested wetlands, to a substantial impoundment, and a smaller upland component. The addition of this tract would compliment the existing recreation opportunities, providing expanded fishing and hunting opportunities within the substantial wetland complex, and it would provide recreation on the upland acreage which does not currently exist on this WMA. This project will also support the health of the Lake Pontchartrain Basin, through the permanent protection of wetlands, which will continue tof filter freshwater flows from the Tangipahoa River.	Tangipahoa, St. Tammany	\$5,500,000
Joseph Breaux, LDAF, Ofc Soil and Water Conservation Brad Spicer, LDAF, Ofc Soil and Water Conservation Doug Daigle, LA Hypoxia Work Group and Lower Mississippi River Basin Subcommittee	Implementation of Nutrient Management Conservation Practices and Innovative Nutrient Reduction Measures on working agricultural lands in the Ouachita River Basin to reduce nutrient loading to the Gulf of Mexico.	This project seeks to help achieve both the Restore Water Quality Goal of the Trustee's Plan and the goals of the Gulf Hypoxia Action Plan by reducing nutrient loading to the Gulf from key source watersheds in northeast Louisiana. These watersheds have yields of nitrogen and phosphorous that show up in significant levels in the U.S. Geological Survey (USGS) SPARROW Model for the Mississippi/Atchafalaya River Basin. Because of the particular hydrology of the Ouachita-Tensas-Black River System, which drains into the Red River and then the Atchafalaya River, these nutrient loads have a direct flow path to the Gulf of Mexico through the mouth of the Atchafalaya and Wax Lake Outlet. The Ouachita River Basin includes some of the most diverse and intensively used agricultural land in the Gulf South. Despite decades of successful agricultural conservation and ecosystem restoration activities in this basin, it still contains multiple watersheds identified in the Louisiana Department if Environmental Quality's (LDEQ) 2016 Integrated Report as not meeting their designated uses for Primary Contact Recreation, Secondary Contact Recreation and Fish and Wildlife Propagation. In Ouachita Basins such as Lake St. Joseph, Lake Bruin, Bayou D'Arbonne and Clear Lake, many of these impairments arise from excess nitrogen/nitrates, total phosphorous, sulfates and turbidity believed to be caused by agriculture. The PDARP/PEIS notes that building on existing programs that are working to address nutrient pollution "can enhance overall ecosystem health by benefiting the estuaries that are integral habitat [for] food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species" (5.5.4). This project will build upon past and current conservation, management and restoration efforts in watersheds in the Northeast Louisiana Delta/Ouachita River Basin by federal and state agencies, local conservation districts, landowners, and non-governmental organizations. The Office of Soil and Water Conservation wi	Claiborne, Lincoln, Ouachita, Richland, and Tensas parishes	\$3,000,000
Joy Merino, NOAA, Southeast Fisheries Science Center Gulf Coast Research Laboratory University of Southern Mississippi University of New Orleans Golden Meadow Plant Materials Center Marine Fisheries Research Center (TX)	Submerged Aquatic Vegetation Enterprise	We propose a Submerged Aquatic Vegetation (SAV) center to provide nearshore habitat stock. Scalable and flexible, the concept can be adopted across several restoration types, and linked to numerous funds due to implications to wildlife, water quality, shoreline, research, mapping, monitoring, and others. For example, when marsh is created, SAV is often buried in the shallow waters that are replaced with marsh. Both SAV and marsh are EFH for several species and life stages. Perceived as sparsely and erratically occurring for the non-marine species where marsh is created, the impacts to SAV are unmitigated for those actions. So, adding a harvest pre-construction, and/or planting post construction would tie to habitat restoration projects both from NRDA funds, but also with any existing program, so it could be implemented immediately. A suggested primary objective is to establish and maintain a source of SAV species for such use; expand the species being grown (mostly Vallisneria americana, which was most damaged by the DWH spill), and maintain a seed source. Specific objectives are (1) Harvest SAV from marsh construction locations prior to marsh construction, and seed from Rockefeller Refuge Ruppia-managed units, (2) Harvest Ruppia maritima plants from Rockefeller, and transplant to Jean Lafitte, (3) Maintain SAV in tanks, and propagate with growth chambers, and (4) Provide plant source within 3 years for repeat planting events at Chandeleur Is. and/or Jean Lafitte. This project will also select and initiate annual surveys of a subset of sites for long-term monitoring/observation from those of a recently completed 3-year baseline survey of the northern gulf of Mexico that included 384 sites with 38% plant presence. This project addresses multiple restoration types including wetlands, coastal, and nearshore; habitat on federal lands; nutrient reduction; water quality; fish and water column inverts; submerged aquatic veg; sea turtles: marine mammals: and birds due to the broad use of SAVs. The activity will address	Plaquemines Parish	\$3,000,000
Louisiana Department of Environmental Quality	Determine Effectiveness of Best Management Practices (BMPs)/Conservation Practices (CPs)	Project locations will be determined by the list of Priority Watersheds as appears in the LDEQ NPS Management Plan, where the latest Louisiana Water Quality Integrated Report cites low dissolved oxygen as a cause of impairment, and agriculture as a source of the impairment, and where LDAF has indicated they will be implementing BMPs. This project will focus on the monitoring, both upstream and downstream from where implementation is occurring, and will include analysis of the data collected to measure water quality response to BMPs, as well as an edge-of field component to obtain direct measurements of nutrients running off of agricultural fields. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Improvement in the understanding of BMPs/CPs effectiveness with respect to Louisiana conditions would provide basis for models that would greatly aid in future selection, identification, and implementation of water quality projects in the state.		\$1,750,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Louisiana Department of Environmental Quality	Implement Agricultural Best Management Practices (BMPs)/Conservation Practices(CPs)	Project locations will be determined by the list of Priority Watersheds as appears in the LDEQ NPS Management Plan, where the latest Louisiana Water Quality Integrated Report cites low dissolved oxygen as a cause of impairment, and agriculture as a source of the impairment, and where a TMDL has calculated the required NPS load reduction to achieve use support restoration. Best management practices (BMPs) and conservation practices (CPs) describe acceptable practices that could be implemented to protect water quality and promote soil conservation. BMPs and CPs to be established in target areas from the USDA, National Resource Conservation Service (NRCS) Louisiana conservation practice list including conservation crop rotation, residue and tillage management-no till/reduced till/strip till, cover crops, critical area planting, fence, field borders, grade stabilization structure, irrigation pipeline, livestock pipeline, irrigation water management, irrigation system, precision land forming, irrigation land leveling, access control, forage and biomass planting, prescribed grazing, heavy use are protection, stream crossing, nutrient management, pest management, watering facility, water well, wetland wildlife habitat management, silvopasture establishment, woody residue treatment, riparian herbaceous cover, riparian forest buffer, filter strip, grassed waterway, tree/shrub site preparation, forest stand improvement, etc. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Producers can employ a suite of BMPs/CPs via resource management system (RMS) plans through voluntary conservation programs in order to decrease the amount of nutrients and sediments that enter a watershed and ultimately discharge into the Gulf of Mexico.		\$5,250,000
Louisiana Department of Environmental Quality	Monitoring Best Management Practices (BMPs)/Conservation Practices (CPs)	Monitoring efforts will be made in vulnerable areas statewide. The state has delineated 12 basins and 473 drainage subsegments within those basins. Watershed characterization, source identification, and prioritization involve identifying the natural characteristics of land and water bodies found within watersheds, and identifying the possible suspected sources of nutrients to a given water body. The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) programs including the Gulf of Mexico Initiative (GoMI), Mississippi River Basin Initiative (MRBI), and National Water Quality Initiative (NWQI) have utilized watershed level characteristics and identification of potential sources to prioritize watersheds at the HUC 8 and 12 levels within the state of Louisiana for water quality, implementation of BMPs and CPs. Factors in selection of priority water bodies for nutrient reduction projects include consideration of the current water quality, implementation activities, and participation of local, state, and federal programs within the watershed to manage nutrients. The LDEQ Nonpoint Source Program prioritizes water bodies throughout the state to address nonpoint sources that may be causing issues in water quality. Monitoring is a crucial element to assess the effectiveness of BMPs/CPs and for water quality-based decision making. Because of natural variability, one of the challenges in water quality improvements at geographic scales greater than the field level relies heavily on the identification of an agricultural pollutant that is a primary cause of poor water quality. Monitoring water quality before and after implementation of BMPs/CPs is essential to document changes in water quality as a result of the BMPs/CPs. Edge-of-field and in-stream monitoring can document water quality changes and improvements resulting from management practice implementation. Another area previously identified as a potential data gap under the Louisiana Nutrient Management Strategy is the monitoring		\$1,125,000
		Continuous nutrient monitoring will be particularly important for assessing and managing nutrient loads delivered across the land-water interface. Much of the current understanding of the patterns and trends in water-quality parameters is based on traditional (discrete) monitoring approaches. Currently, LDEQ conducts monitoring through its Ambient Water Quality Monitoring Network (AWQMN). This entails 400 water bodies statewide on a four-year rotating cycle where each water body is monitored monthly for one year out of the four-year cycle; thus, approximately only 25% of these surface water bodies are monitored within a given year. There are currently only 21 stations that are located on larger water bodies in the state and sampled monthly as part of a long-term monitoring plan. While this low temporal frequency approach - coupled with modeling and statistical techniques - has yielded critical information, continuous measurements can improve the calculation of nutrient trends and loads where discrete sampling cannot fully represent the concentration-discharge relationship. Continuous nutrient monitoring also solves the interpretation challenge imposed by the mismatch between temporal scales on which hydrologic processes and water quality parameters are measured. The high temporal frequency of continuous monitoring provides an opportunity to improve the accuracy and reduce the uncertainty of nutrient load estimates from the edge-of-field, and thus, guide the implementation and evaluation of BMPs/CPs at both the field and watershed scales. The primary grounds for many of the Gulf's ecologically and economically important species. Monitoring allows for observing the progress made towards restoration over the duration of the project through field inspections, data collection, and data analysis. The objectives of this project will include measuring performance of specific management practices, filling data gaps in watershed characterization, and prioritization, assessment, protection, alternatives, engagement, and i		
Louisiana Department of Environmental Quality	Nutrient Management for Dairy Farms	Those regions of the state where dairy farms are concentrated or significant agricultural enterprises may potentially contribute to any level of impairment of state surface waters. Primary target areas will be the upper Sabine and Red River Basin areas of northwest Louisiana, and the Lake Pontchartrain Basin area of southeast Louisiana. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Dairy farms in Louisiana can have a considerable negative effect on water quality. Nutrients, sediment, and fecal coliform bacteria originating from dairy operations can enter water bodies through runoff. Nutrient management planning and implementation of BMPs/CPs on dairy farms can improve water quality for the receiving water body and the downstream water bodies. Conservation on dairy operations normally begins with a complete operational and natural resource assessment, conducted with the operator's plans and objectives in mind. While striving to address all present and future resource concerns associated with the operation. Ultimately, all conservation concerns and objectives are addressed by developing and implementing a Comprehensive Waste Management System which will include a Zero Waste Discharge system. All enrolled dairy land tracts will be included in development of a Comprehensive Nutrient Management Plan (CNMP) which will be used to define all conservation practice design parameters. The existing USGS/Water Resources and LDEQ Ambient Monitoring Data will be utilized within priority watersheds named in this project. However, through this project the LSU Ag Center will collect water quality base data, and conduct project specific water quality monitoring by focusing on 1) Nitrates/Nitrites, turbidity and others and necessary to accurately discern seasonal nutrient load variations as may be induce		\$1,875,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Louisiana Department of Environmental Quality	Nutrient Management of Easements	Nutrient-laden agricultural runoff will be managed by utilizing previously established long-term and permanent bottomland restoration easements and by enrolling additional riparian lands topographically situated to provide maximum swale or bio-filter effect for removal or assimilation of nutrients and associated sediments from agricultural runoff. Within suitable areas of the priority watersheds, agricultural runoff from row crop, and other agricultural operations will be managed for nutrient loading reduction by connecting runoff from separate tracts to more fully utilize irrigation water and rainfall runoff via gravity or forced drainage on and between farms or tracts. Excess irrigation water or rainfall runoff will also be diverted, through gravity or forced drainage, through nearby existing Agricultural Conservation Easements and similarly vegetated riparian or wetland areas for maximum sediment retention, nutrient assimilation and other surface water quality benefits.		\$11,000,000
		Participating producers will be permitted the benefit of higher conservation project application ranking based on location relative to such riparian or wetland easement areas and/or affected water bodies, with higher points awarded to practices providing the greatest positive impact on nutrient reduction, and to farmers who implement an RMS level plan on their whole farm within the project area, and not only on acres under contract		
		In addition to existing lowland or riparian easements, this project will encourage and incentivize enrollments of additional forest or herbaceous riparian tracts whereby agricultural runoff may be directed and retained for nutrient and sediment reduction. The tracts targeted through this project for riparian restoration will be those lands that have suitable riparian "sump" potential for nutrient and sediment reduction, but may have not been eligible for WRP/WRE due to geographic proximity to established wildlife corridors, tract size or similar factors. By enrolling such acreages in this nutrient reduction project, it is anticipated that their easement program eligibility and ranking potential for USDA easement programs will increase, helping to ensure sustained nutrient load reductions into these watersheds. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Assisting landowners convert vulnerable lands to permanent cover for long-term duration will aid in nutrient management and improve water quality.		
Louisiana Department of Environmental Quality	Winter Water Holdings on Agricultural Lands	Vulnerable areas statewide within the 44 Soil and Water Conservation Districts with specific focus on areas of current rice production with levee and irrigation systems in place, as well as in fallow fields formerly planted to rice, but are currently grazed continuously or intermittently, and retain the original levee with pumping or passive irrigation capacity. Winter water holding includes both Wetland Wildlife Habitat Management and Shallow Water Development and Management conservation practices where water is held seasonally during waterfowl and other wildlife use. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Winter water holding for nutrient management on agricultural lands can create wildlife habitats and filter water for improved water quality. Implementation of these practices requires retention of irrigation water over the fall/winter usually from October through March during waterfowl use or other specified periods of time. The retained water allows for: sediment deposition if the soil or following year's seedbed has been disturbed, nutrient uptake by emergent aquatic vegetation, utilization of the previous planting year's crop residue to reduce soil disturbance from wind induced water movement, animal feeding activity and discharge outflow velocity, thereby reducing or eliminating sediment transport/soil erosion. Late winter or spring season de-watering is done in 1-2 inch increments to: prevent erosive current velocity, prevent nutrient/bacteria loading in receiving water body, provide a greater diversity of waterfowl, wading bird, shorebird, invertebrate habitat, and to enhance native vegetation density and diversity. Levels of nutrients and suspended sediments in impounded or retained water are assessed prior to dewatering. Other conservation practices such as Irrigatio		
		The existing USGS/Water Resources and LDEQ Ambient Monitoring Data will be utilized within priority watersheds named in this project. However, through this project the LSU Ag Center will collect water quality base data, and conduct project specific water quality monitoring by focusing on 1) Nitrates/Nitrites, turbidity and others necessary to accurately discern seasonal nutrient load variations as may be induced by agriculture, and to accurately gauge project success on a HUC-12 scale.		
Louisiana Department of Environmental Quality	Cost Share Assistance Program for Individual Sewage Repair/Replacement	Targeted Watersheds within the Coastal Zone Act Reauthorization Amendments (CZARA) coastal zone, prioritized by watersheds where the suspected source of impairment, according to the most current Louisiana Water Quality Integrated Report, is on-site waste disposal systems, and by parishes where there are no local ordinances requiring regular on-site disposal system inspections. Individual sewage systems are common in Louisiana. Unfortunately, improper maintenance and operation of these systems is also common and result in water quality concerns and impairments for nutrients and fecal coliform in Louisiana water bodies. A failing septic system can also allow harmful bacteria from untreated waste to leach into groundwater supplies, potentially contaminating drinking water. Individual waste system initiatives can help to assist low-income residents to bring their waste system back into working order. Inspections of individual sewage systems will help provide education material on the proper operation and maintenance of systems; and address any issues or concerns in reference to the proper maintenance of individual home sewage treatment systems. The primary goal of this comprehensive nutrient reduction project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Given the important link between healthy natural resources and recreational activities, restoring habitats and improving water quality will also provide human use benefits. Emphasis on public health and protection of water quality with respect to nonpoint source pollution and sewage disposal management is a major component of the overall education outreach program.		\$9,740,000
USGS	Flux of Nutrients and Sediments from the outlet of the Mississippi River to nearshore Gulf of Mexico waters	The proposed study addresses the NRDA objective to restore water quality by quantifying nutrient and sediment delivery to Gulf waters. The project will aid in guiding nutrient reduction strategies ultimately aimed at reducing hypoxic zones in the Gulf and improving water quality of nearshore waters. Addressing habitat restoration approaches to protect and conserve marine, coastal, estuarine, and riparian habitats is critical to achieving NRDA restoration objectives. As coastal restoration continues in the Gulf, the need to measure critical water-quality parameters directly at the outlet of the Mississippi River distributaries is becoming increasingly important. Gulf hypoxia is linked to influx of the Mississippi River nutrients and will require a better data record of water quality and quantity inputs into coastal zones at and near the outlet of the Mississippi River that currently collective water quality information routinely, at Belle Chasse, is not sufficient to determine chemical and physical changes in the water column near the mouth of the river and fluxes of chemical constituents to nearshore waters. The development of water-quality monitoring to determine the contributions of nutrients and sediments in these areas to nearshore and offshore environments of of the mouth of Mississippi River. The project has two main objectives: 1) extending monitoring of flow, sediment and water-quality downstream from Belle Chasse to the mouth of the Mississippi River, and 2) quantitatively and qualitatively distinguishing the river water that enters shallow waters e ast of the Mississippi River for example Breton Sound from that flowing south and west through the main passes. On its eastern side, a longer portion of the Mississippi River were an area of widespread enkage of river water into the adjacent estuarine waters. Little is known about the quality and quality of this water. The shallow estuaries constration adjuctate seat of the Mississippi River were an ereis of widespread envices of the adjacent estuarine wate	Plaquemines Parish	\$1,200,000.00

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
CPRA	Pilot Project Linking Offshore to Onshore Water Quality Monitoring	Coastal Louisiana's ecosystems are affected by various stressors, including wetland loss, riverine nutrient loading, hypoxia, oil pollution and climate change. For example, an estimated quarter of Louisiana's wetlands have been lost due to a variety of natural and anthropogenic factors, including erosion caused by the Deepwater Horizon oil spill (DWH; McClenachan et al. 2013, Turner et al. 2016). Large summertime hypoxic zone in the Louisiana's coastal waters causes large-scale spatial population displacements and reduction in growth and reproduction rates of commercially important fish and shring species (Craig et al. 2001, Rabalais et al. 2001, Justic et al. 2017). Further, the DWH oil spill caused negative health effects on fish (Dubansky et al. 2013, Incardona et al. 2013), shifts in phytoplankton and microbial communities (Ozhan et al. 2014), and possible stimulation of harmful algal blooms (Bargu et al. 2016). Louisiana's Coastal Master Plan (CPRA 2017) identified a number of river diversion projects that could have multiple potential restoration benefits, including mitigation of wetland loss, improvement of offshore water quality (including mitigation of hypoxia) through enhanced wetland nutrient retention, and protection of wetlands from oil exposure. However, currently there is no monitoring in place to assess water quality changes in the Louisiana nearshore coastal region (barrier islands to shelf). This region is a key intersect for the interactive effects of multiple ecosystem change drivers (e.g., restoration projects, riverine nutrient loading, hypoxia, oil pollution, climate change) on living resources in the North-Central Guil of Mexico. The objective of this project is to fill the critical water quality monitoring gap by establishing a monitoring transect extending from Barataria Pass, Louisiana, to the inner shelf. Extending the monitoring transect will provid to investigate the connection between inshore and offshore water quality across a federal-state boundary. The project will monitor nitr	Jefferson Parish	
The Nature Conservancy	Nutrient Reduction Pilot Projects in the Mississippi Valley	The Nature Conservancy is engaged in a large scale project to reduce nutrient inputs to the Mississippi River. The project is a multi-faceted effort involving TNC Chapters in the whole Mississippi Basin. In this portion of the project we would conduct one or more nutrient reduction pilot projects in the Mississippi Valley as prototypes for reducing nutrient flows into the Gulf and, thus, the size of the Dead Zone a. Objective: Demonstrate cost-effective and practical methods of agricultural nutrient reduction that can be replicated in the Mississippi Valley. b. Species group/habitat: Fish and Water Column Invertebrates, Marine Mammals. c. Description: Evidence suggests that the Gulf Dead Zone impacts the health of Fish and water column invertebrates and, potentially, marine mammals in a large area south and west of the Mississippi River Delta. The Dead Zone is caused primarily by agricultural nutrients flowing into the Mississippi River and then into the Gulf. While there have been long-standing efforts to reduce nutrient runoff, progress in reducing the size and duration of the Dead Zone is not evident. The Nature Conservancy is currently involved in activities across the entire Mississippi Valley to reduce nutrients. Large scale pilot projects are needed to demonstrate new on-field and edge of field reduction techniques. In addition, there is increasing evidence that floodplain and wetland restoration removes nutrients in tributary rivers. This project would create a large-scale pilot project on a Mississippi tributary in Louisiana or Mississippi to test a broad range of strategies for nutrient reduction that could be measured, described, and then be replicated elsewhere.	East Carroll Parish	
Little Lagoon Preservation Society	Little Lagoon Multiple Site Living Shoreline Restoration	Living shoreline quantity and quality in Little Lagoon has been severely impacted by ever increasing population density and property modifications such as bulkheads and piers. Coastal expert Scott Douglas has estimated over 50% of Little Lagoon has a hardened shoreline. Of the remaining 50% of Little Lagoon that remains unhardened, 2/3 can be found within the boundary of Bon Secour National Wildlife Refuge (BSNWR). Ultimately, the Lagoon is showing signs of stress due to the reduction of natural shorelines, inadequate flushing, high bacteria levels in parts of the Lagoon, and increasingly frequent and dense harmful algal blooms (HABs) throughout the Lagoon. Nutrient sources are significant and should be remediated. Flushing is part of the solution but another is nutrient removal via natural vegetation and filter feeders, such as mussels, that can both be found in functioning living shoreline loss/erosion is another chronic issue for properties along the Lagoon. Although efforts to keep oil out of the Lagoon during the Deepwater Horizon (DWH) oil spill were successful, some unintended consequences were noted. Heavy rain fall during the latter part of the multiple pass closure period resulted in high water and infrastructure damage (sea walls/bulkheads, piers, roads, etc.). An opportunity exists to improve water quality in the lagoon, return shorelines to a natural state, repair roads/shorelines and "showcase" methods to improve the health of the Lagoon and remediate problems. Little Lagoon Preservation Society, the City of Gulf Shores, and the BSNWR would like to work in partnership to conduct several shoreline restoration projects: 1) restore .3 miles of shoreline along the south west corner and the south shore of the Lagoon within the BSNWR and on State owned water bottom. Pine Beach Road is nearly in the water along that potion of the Lagoon due to shoreline project. The specifics of the living shoreline project would be finalized during the evaluation and planning process. However, the living shoreline resto	Not located in Louisiana	\$950,000
Mississippi-Alabama Sea Grant Consortium (on behalf of LSU)	Joyce Wildlife Management Area	Historical modification: The building of a railway and a parallel highway bisected wetlands eliminating the east to west flow of water through the Joyce Wildlife Management area and surrounding wetlands. Additionally, the dredging of a slough canal adjacent to the management area blocked input of freshwater from the upland watershed with the placement of the spoil on the south side. Explicit goals and objectives: Benefits and or goals include: reconnection of freshwater flow to the Joyce WIMA and surrounding wetlands; remove nutrients from wastewater treatment plants upstream; and improve current delivery system to include water control structures for flood/drawdown plusing. Type of restriction impeding or preventing historical hydrological flows: Road Railroad Design strategy to address issue: Water control structures (i.e., gates and weirs) Top three ecological benefits: Improved habitat longevity and sustainability Adaptation or accommodation of sea level rise Improved ground water and surface water quality	Tangipahoa, St. Tammany	\$250,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Lafourche Parish Game and Fish Commission	Lake Fields Hyrologic Restoration	Lake Fields is located due west of Lockport, south of U.S. Highway 90, and north of the Gulf Intracoastal Waterway in Lafourche Parish and is approximately 2,000 acres in size. Prior to the early 1960s, Lake Fields was known for clear water, profuse submergent vegetation, and excellent sport fish and waterfowl populations. However, sport fish and waterfowl populations have declined dramatically in the lake proper in association with declining water quality and physical habitat. The lake is currently characterized by low water clarity, high nutrient levels, periodic algal blooms, and a virtual absence of ecologically important submergent aquatic vegetation. The deterioration of the Lake Fields ecosystem can largely be attributed to major physical modifications in the watershed. During the 1800s, Lake Fields was a semi-isolated freshwater lake with a small and undeveloped watershed and surrounded by continuous fresh marsh. Upper watershed water via Bayou Dumar and upper Bayou Folse once largely bypassed Lake Fields in the northwest corner, but a significant portion of Bayou Dumar capacity flowed into Commercial Canal and then into lower Bayou Folse. By the 1960s, however, various hydrological and physical changes rerouted an increased inflow into Lake Fields. The first was the erosion / subsidence of the west bank of lower Bayou Folse, which created a substantial opening into Lake Fields. The second was the decrease in water depths and water capacity of lower Bayou Folse due to the accumulation of sediments and organic materials. The decrease in the flow capacity of lower Bayou Folse due to the accumulation of sediments and organic materials. The decrease in the flow capacity of lower Bayou Folse was there from upper Bayou Folse was diverted through Commercial Canal into Bayou Dumar and eventually Lake Fields; and, marceased inflow of nutrient-laden, poor quality water from the upper watershed resulted in immediate and long-term adverse impacts on water quality and physical habitats in Lake Fields. Periodic algal	Lafourche Parish	
Partnership for Gulf Coast Land Conservation	Increase the pace, quality and permanence of voluntary land and water conservation through the Partnership for Gulf Coast Land Conservation	The Partnership for Gulf Coast Land Conservation project The Partnership for Gulf Coast Land Conservation (PGCLC) is a new coalition of local, regional state and national land conservation organizations devoted to advancing land and water conservation in the Gulf of Mexico region. This initiative is organized under the auspices of the non-profit Land Trust Alliance (Alliance) and is patterned after other successful land trust coalitions across the country. Today our membership consists of 25 national, regional and local land trusts operating in the Gulf States. The Partnership's mission is to work together across the five Gulf of Mexico states to increase the pace, quality and permanence of voluntary land and water conservation in the coastal region. Land trusts are community-based non-profit organizations that work with landowners to permanently conserve forests, rivers, farms, ranches and other natural areas critical to a sustainable environment and healthy, thriving communities. Through this project, the Partnership proposes to: 1. Increase the effectiveness and efficiency of land trusts in the Gulf Region. 2. Develop and promote a public policy agenda which will reduce the barriers to private sector conservation measures in the region. Collaborative projects may be built around water quality, critical habitat, or other criteria. 4. Participate in landscape-scale conservation planning in collaboration with other conservation partners (resource agencies and other non-government organizations) that prioritizes habitat for endangered and threatened species, improvements to water quality, connectivity to other protected lands, trust resources and important cultural and recreational features. 5. Participate in and coordinate our efforts with other ong oing conservation planning and implementation activities through entities such as the Gulf of Mexico Alliance and the Gulf of Mexico Foundation and others.		

Table B-2. Project Universe: Recreation Use

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Louisiana Office of State Parks	Grand Isle State Park	The extension and upgrade of the fishing pier at Grand Isle State Park, at a cost of \$1.5M, will provide for an additional 400 feet of pier, associated lighting, and a fish cleaning station. Another \$1.5M would provide for upgrades to the existing rock groins (aka, the rock jetty) which keeps beach erosion – and general topography subsidence – to a minimum. The rock groins would allow for additional property to be developed/protected for coastal bird habitat. Existing roads and nature trails also require repairs and upgrades due to flooding; an additional \$500,000 is needed to bring them up to standard. The nature trails will be utilized for bird watching and other nature/recreation activities.	Jefferson Parish	\$3,500,000
Louisiana Office of State Parks	Cypremore Point State Park	Reinforcement of the existing rock jetties and replacement of the breakwater system, to alleviate beach erosion at the park, at a cost of \$2M; reclamation and re-sanding of the beach would cost an additional \$1M while the replacement of the fishing pier – damaged due to unbroken wave action from tropical disturbances – would cost \$500,000. The additional beach property would allow for both recreational opportunities and creation of coastal bird habitat. Roads are also in need of upgrading, at a cost of \$1M. The addition of a 30-site campground and associated bathhouse would fill the long-requested need for camping facilities in the area; estimated cost is \$2M. The additional overnight facilities and infrastructure improvements will allow for bird watching and recreational opportunities.	St. Mary Parish	\$6,500,000
Louisiana Office of State Parks	St. Bernard State Park	Existing structures – restrooms, bathhouses, entrance station – are due an upgrade. An event pavilion also has been repeatedly requested by the community, to increase the opportunities for day-use at the park.	St. Bernard Parish	\$1,000,000
Louisiana Office of State Parks	Bayou Segnette State Park	The boat launch, boat slips, playground for children with disabilities, parking lot, and park roads are long overdue upgrades.	Jefferson Parish	\$3,000,000
Louisiana Office of State Parks	Grand Isle State Park	Campground improvements, pothole repairs, nature trails resurfacing, road repairs and improvements, sewer treatment plant installation, road striping, trail improvements, road and park painting. Improvements include increased accessibility for persons with disabilities.	Jefferson Parish	\$400,000
Louisiana Office of State Parks	Cypremore Point State Park	Road repair, Lake Bank stabilization, building flooring, building painting. Improvements include increased accessibility for persons with disabilities.	St. Mary Parish	\$300,000
Louisiana Office of State Parks	St. Bernard State Park	Installation of backflow preventers, siding and post repairs, new parking lots, pool demolition, dump station repairs, lift stations repairs, dirt work to enhance campsites. Improvements include increased accessibility for persons with disabilities.	St. Bernard Parish	\$250,000
Louisiana Office of State Parks	Bayou Segnette State Park	Construction of ADA accessible sidewalks, boat launch repair, playground repairs, and campground repairs. Improvements include increased accessibility for persons with disabilities.	Jefferson Parish	\$2,050,000
Louisiana Office of State Parks	Sam Houston Jones State Park	Restroom renovations, Cabin renovations, HVAC replacements, new restrooms.	Calcasieu Parish	\$350,000
Louisiana Office of State Parks	Sam Houston Jones State Park	Replacement of 10 cabins, some dating from the 1950s and other that are temporary structures. As one of the top 5 visited parks in the system, this upgrade would improve the park's image – and thereby, OSP's – to its many visitors.	Calcasieu Parish	\$4,000,000
Louisiana Office of State Parks	Marketing	The Office of State Parks requests \$500,000 per year, for three years, for the purpose of promoting, marketing, and interpreting the importance of Louisiana's natural and cultural resources, as experienced at Louisiana's State Parks and Historic Sites, particularly found along the Louisiana Gulf Coast. The funds will allow Louisiana State Parks to advertise and promote Louisiana as a tourism destination for outdoor enthusiasts, families, history buffs and ecotourists. Marketing the parks and historic sites will be accomplished by leveraging the assets of key tourism and community members, benefiting the economy and welfare of the state and the Gulf Coast region.		\$3,000,000
Louisiana Office of State Parks	Palmetto Island State Park	Bear proof dumpsters, replace HVAC, enhance trail system, construct large pavilion	Vermillion Parish	\$200,000
Louisiana Office of State Parks	Atchafalaya Basin Conservation Learning Center	Establish, construct, and operate the Atchafalaya Conservation Learning Center, a facility [to] educate and promote restoration and stewardship of the Atchafalaya Basin's natural resources to students, teachers, as well as the general public, in an effort to preserve the culture of the people of the area, the quality of life, and recreational fishing sustainability. In addition, the Learning Center will be a facility for conducting scientific study related to hydrology, forest ecology, restoration and conservation of the Atchafalaya Basin - one of America's great wetlands. A Conservation Fellows Program designed for students to perform scientific monitoring and research regarding efforts in the Atchafalaya Basin will be housed in the Learning Center. This project will be performed in collaboration with The Nature Conservancy, a nonprofit organization, and in consultation with the Louisiana Department of Natural Resources.		\$880,000
Louisiana Office of State Parks	Palmetto Island State Park	To fulfill the park's original Master Plan, construct a \$3M group camp, 5 additional cabins at a total cost of \$2.5M, and an event pavilion at a cost of \$350,000. The nature trails also are in need of maintenance and expansion, as a cost of \$250,000.	Vermillion Parish	\$6,250,000
Louisiana Department of Wildlife and Fisheries	Island Road Piers	Island Road Fishing Piers; Island Road is a small two lane road connecting highway 665 to the Isle de Jean Charles - southern boundary of the Ensminger/Songe marsh management unit on Pointe-aux-Chenes WMA in Terrebonne Parish. This project would provide safe roadside parking in conjunction with public fishing piers.	Pointe-aux-Chenes WMA - Terrebonne	\$3,000,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Louisiana Department of Wildlife and Fisheries	Port Sulfur	Civic Drive fishing pier (Wallop Breaux proposed project); Improvement to makeshift boat launch (CSA suggested project)	Port Sulfur - Plaquemines	\$150,000
Louisiana Department of Wildlife and Fisheries	Belle Chase	Walker Road boat launch facility in Belle Chase; Plaquemines Parish	Belle Chase - Plaquemines	\$200,000
Louisiana Department of Wildlife and Fisheries	Seawall Lights	Installation of light poles and safety lights along Reaches 4 and 4 of the south shore seawall, which would enhance night fishing opportunities for the south shore of Lake Pontchartrain.	New Orleans - Orleans	\$330,000
Louisiana Department of Wildlife and Fisheries	Montegut S1/S2 Access (renamed Pointe-aux-Chenes Wildlife Management Area Recreation Use Enhancement)	Pointe Aux Chenes WMA - Montegut Unit S1 (West) and S2 (East) access improvements; construct boat docks/fishing piers and walkway at water control structures to allow for safe fishing opportunities.	Pointe-aux-Chenes WMA - Terrebonne	\$500,000
Louisiana Department of Wildlife and Fisheries	Island Rd Launch	Island Road boat launch renovation; PAC WMA has two boat launches - one of the launches, Island Road boat launch, is in a state of disrepair and needs a number of renovations to make it serviceable. This project would completely renovate and enhance this launch.	Pointe-aux-Chenes WMA - Terrebonne	\$3,000,000
Louisiana Department of Wildlife and Fisheries	PAC Fishing Piers	Pointe-aux-Chenes fishing piers; this project would provide safe roadside parking in conjunction with public fishing piers.	Pointe-aux-Chenes WMA - Terrebonne	\$500,000
Louisiana Department of Wildlife and Fisheries	Des Allemands	Create a new boat launch facility to replace current unsafe launch	Des Allemands - St. Charles	\$1,110,000
Louisiana Department of Wildlife and Fisheries	Pirogue Launch	Montegut Pirogue Launch; Develop a launch for small vessels like pirogues and kayaks on the Montegut Management Unit of the WMA	Pointe-aux-Chenes WMA - Terrebonne	\$300,000
Louisiana Department of Wildlife and Fisheries	Rockefeller Piers	Create new recreation and observation piers for birding, fishing, and crabbing opportunities.	Rockefeller Wildlife Refuge - Cameron/Vermilion	\$100,000
Louisiana Department of Wildlife and Fisheries	Rockefeller Signage	Create signage for informational outreach display for recreational users of the Refuge	Rockefeller Wildlife Refuge - Cameron/ Vermilion	\$30,000
Louisiana Department of Wildlife and Fisheries	Pirogue Pull-Overs	Create pirogue pull-overs for Montegut and PAC units	Pointe-aux-Chenes WMA - Terrebonne	\$100,000
Louisiana Department of Wildlife and Fisheries	Berwick	Improvements to Jessie Fontenot boat launch near Berwick	Berwick - St. Mary	\$270,000
Louisiana Department of Wildlife and Fisheries	PAL WMA Campgrounds	Projects - Public campground improvements to WMA	Pass-a-Loutre - Plaquemines	\$1,500,000
Louisiana Department of Wildlife and Fisheries	PAL WMA Access	Recreational access enhancements to WMA	Pass-a-Loutre - Plaquemines	\$100,000
Louisiana Department of Wildlife and Fisheries	Grand Isle LDWF Lab	Fishing pier to enhance outreach activities at the LDWF Fisheries Research Laboratory	LDWF Grand Isle Complex - Jefferson	\$250,000
Louisiana Department of Wildlife and Fisheries	AD WMA Campgrounds	Campground Improvements including bulkhead addition	Atchafalaya Delta WMA - St. Mary	\$4,300,000
Louisiana Department of Wildlife and Fisheries	Hwy 90	Hwy 90 Boat Launch improvements to existing launch (Pier 90) located near the St. Charles/Jefferson parish line	Hwy 90 Boat Launch - St. Charles	\$1,340,000
Louisiana Department of Wildlife and Fisheries	Middle Pearl	Improvements to launch and parking	Middle Pearl Boat Launch - St. Tammany	\$250,000
Louisiana Department of Wildlife and Fisheries	AD WMA Access	Public Access Enhancement (dredging channels popular with public navigation)	Atchafalaya Delta WMA - St. Mary	\$1,500,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Louisiana Department of Wildlife and Fisheries	WHARF	Wetland Harbor Activities Recreational Facility; Development of multi-use facilities for recreational access of nearby areas including Bayou Segnette	Westwego - Jefferson	\$250,000
Louisiana Department of Wildlife and Fisheries	Bonne Carre	Shoreline access and/or fishing pier near the Bonne Carre recreational area that has an existing launch and the Wetland Watchers Park	Bonne Carre Recreation Area - St. Charles	\$250,000
Louisiana Department of Wildlife and Fisheries	I-10 Bridge/Lake Charles	I-10 boat ramp could be put in consideration as it is largely due for some major repair work; existing ramp does not have the slope needed to launch more than a flat bottom vessel; upgrading this launch would be very beneficial for many users	Lake Charles - Calcasieu	\$1,000,000
Louisiana Department of Wildlife and Fisheries	Maurepas	Lake Maurepas Access Improvements; components include improved parking, boat ramp, wetland walk/boardwalk	Lake Maurepas - St. John the Baptist	\$250,000
Louisiana Department of Wildlife and Fisheries	Old Hwy 1	Parking improvements with improved shoreline access and/or fishing pier	Leeville - Lafourche	\$250,000
Louisiana Department of Wildlife and Fisheries	Cane Bayou	Improvements to launch and additional parking	Cane Bayou Boat Launch - St. Tammany	\$250,000
Louisiana Department of Wildlife and Fisheries	Fort Pike	Improve launch and rebuild fishing pier	Fort Pike - Orleans	\$250,000
Louisiana Department of Wildlife and Fisheries	Oak Ridge	There is a pumping station adjacent to the Oak Ridge Boat Launch, behind the Oak Ridge Community Park in Golden Meadow, which pumps rainwater into a dead-end canal just east of Catfish Lake (popular fishing spot)	Golden Meadow - Lafourche	\$250,000
Louisiana Department of Wildlife and Fisheries	Hwy 11/I-10	Improved parking, kayak launch, and shoreline fishing access	Irish Bayou Area - Orleans	\$250,000
Louisiana Department of Wildlife and Fisheries	Deatonville	Kayak launch and roadside fishing	Deatonville - Calcasieu	\$250,000
Louisiana Department of Wildlife and Fisheries	Bubba Dove	Pier adjacent to the Bubba Dove water control structure	Bubba Dove - Terrebonne	\$400,000
Louisiana Department of Wildlife and Fisheries	Fourchon	Kayak launch and roadside fishing	Fourchon - Lafourche	\$250,000
Louisiana Department of Wildlife and Fisheries	Williams Blvd	Kayak launch and roadside fishing	Williams Blvd - Jefferson	\$250,000
CCA Louisiana	East Calcasieu Reef Area	New 68 acre planning area for reef development; Permitting pending LDWF approvals; 5000 ton reef covering 4-5 acres; Funding from CCA's Building Conservation Trust, LDWF, and contractor		
CCA Louisiana	St. John Reef Area	New 10 acre planning area; Near Frenier Landing boat launch; Permit pending Army Corps; 3000 ton reef covering 2-3 acres; Funding from CCA's Building Conservation Trust, LDWF, and contractor		
CCA Louisiana	Point Mast Reef Expansion	Original deployment 2009; Permit pending Army Corps; 2000 ton reef area covering 2-3 acres; Funding from Chevron, LDWF, and contractor		
CCA Louisiana	Nearshore Reef Planning Areas	Final approval by Artificial Reef Council 9/15/16; Adoption into the program with guidelines and requirements; Permit submitted for Bay Marchand 3 Reef; Donated platforms likely for material		
CCA Louisiana	Cypremore Point Floating Islands Installation	Permitting not required; 3 elementary schools have expressed interest; Request for partial funding to CCA's Building Conservation Trust, Entergy Environmental Initiatives Fund, additional funding sought through St. Mary's Parish and Iberia Parish	St. Mary Parish	\$20,000 (To maximize the grass growing season, this installation may not take place until spring 2018. CCA would like to formally request \$20,000 to support participation of school children in the installation, including pre-event education)
CCA Louisiana	Cypremore Point Reef	Exact location yet to be identified; In concert with LDWF and CCA's Building Conservation Trust	St. Mary Parish	

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
CCA Louisiana	Plaquemine Parish Reef	Exact location yet to be identified; In concert with LDWF and CCA's Building Conservation Trust	Plaquemines Parish	
CCA Louisiana	Vermillion Parish Floating Islands Installation	Exact location yet to be determined; Funding identification underway including parish support	Vermillion Parish	 \$20,000 (To maximize the grass growing season, this installation may not take place until late spring 2018 or early spring 2019. CCA would like to formally request \$20,000 to support participation of school children in the installation, including pre-event education)
CCA Louisiana	Deatonville	Kayak Launch	Calcasieu Parish	\$250,000
CCA Louisiana	Calcasieu Lake - Joes Cove	Kayak Launch	Cameron Parish	\$250,000
CCA Louisiana	Calcasieu Lake - Southeast Corner	Kayak Launch	Cameron Parish	\$250,000
CCA Louisiana	Calcasieu Lake - West Cove	Kayak Launch	Cameron Parish	\$250,000
CCA Louisiana	Sabine National Wildlife Refuge	Kayak Launch	Sabine Parish	\$250,000
CCA Louisiana	Mermentau	Pier	Acadia Parish	\$1,000,000
CCA Louisiana	Grand Isle, WLF Lab	Pier	Jefferson Parish	\$250,000
CCA Louisiana	Lake Pontchartrain at Williams Boulevard	Kayak Launch	Jefferson Parish	\$250,000
CCA Louisiana	Lake Pontchartrain at Bucktown	Kayak Launch and Pier	Jefferson Parish	\$1,750,000
CCA Louisiana	Highway 1, Caminada Bridge Launch	Kayak Launch and Pier and Reef	Jefferson Parish	\$250,000
CCA Louisiana	Highway 1, Caminada Bridge Launch (Old Caminada Bridge)	Kayak Launch	Jefferson Parish	\$3,500,000
CCA Louisiana	Lake Pontchartrain at Pass Manchac	Pier Enhancement		\$1,000,000
CCA Louisiana	Lake Pontchartrain at West End Blvd.	Pier	Orleans Parish	\$750,000
CCA Louisiana	Lake Pontchartrain, Southshore near I- 10	Kayak Launch and Pier	Orleans Parish	\$250,000
CCA Louisiana	Chef Pass	Pier	Orleans Parish	\$1,000,000
CCA Louisiana	Fort Jackson Fishing Pier	Pier	Plaquemines Parish	\$1,000,000
CCA Louisiana	Empire, Bay Adams	Pier	Plaquemines Parish	\$400,000
CCA Louisiana	Yellow Cotton Bay, Venice	Kayak Launch and Pier	Plaquemines Parish	\$400,000
CCA Louisiana	Fourchon Public Launch	Kayak Launch and Pier	Lafourche Parish	\$250,000
CCA Louisiana	Highway 1, Leeville Launch	Kayak Launch	Lafourche Parish	\$400,000
CCA Louisiana	Shell Beach	Pier	St. Bernard Parish	\$1,000,000
CCA Louisiana	Cypremore Point State Park	Kayak Launch and Pier	St. Mary Parish	\$1,250,000

Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
CCA Louisiana	Mandeville Boat Harbor	Kayak Launch and Pier	St. Tammany Parish	\$1,250,000
CCA Louisiana	Bayou Dularge	Kayak Launch	Terrebonne Parish	\$250,000
CCA Louisiana	Dulac Launch	Kayak Launch	Terrebonne Parish	\$400,000
CCA Louisiana	Bubba Dove Pier	Pier	Terrebonne Parish	\$1,000,000
CCA Louisiana	Bayou Point Aux Chenes	Kayak Launch and Pier	Terrebonne Parish	\$1,000,000
CCA Louisiana	Vermillion, Intercoastal City Launch and	Kayak Launch and Pier	Vermillion Parish	\$1,250,000
CCA Louisiana	Davis Pond	Kayak Launch and Pier	St. Charles Parish	\$750,000
CCA Louisiana	Elmer's Island	Kayak Launch and Pier	Jefferson Parish	\$1,250,000
CCA Louisiana	East Point a la Hache	Kayak Launch and Pier	Plaquemines Parish	\$750,000
CCA Louisiana	Lakeshore Drive Fishing Lighting	Access Lighting		\$650,000
CCA Louisiana	Bayou Bienvenue at Paris Road	Kayak Launch and Pier		\$500,000
Louisiana Board of Regents	Retrofit LUMCON Vessel	Retrofit Louisiana University Marine Consortium research vessel		\$5,000,000 - \$15,000,000
Lake Pontchartrain Basin Foundation	Lake Pontchartrain Beach	Pontchartrain Beach Stabilization Plan - Revitalize beach adjacent to the LPV (HSDRRS) levee. Placement of sand, removal of damaged metal sheet pile groin, and construction of a new offshore breakwater.	Orleans Parish	\$10,000,000
Town of Jean Lafitte	The Wetlands Center	Construction of The Wetlands Center in Lafitte. The project objectives are to educate the general public about the function, purpose and importance of wetlands as they relate to the coast and our public environment, and to show the dynamic value of this vital resource. A public building, adjacent to the existing museum, theatre, library and community center, will be constructed to provide an educational and cultural venue for the Town of Jean Lafitte and the surrounding area. Wetlands exhibits, to include multi-media interactive storytelling through permanent and changing exhibits, hands-on experiential learning activities, historical and cultural artifacts, aquarium tanks, exterior wildlife tanks, 3D interactive maps and habitat models, will be displayed in a state of the art facility to provide a passive as well as an interactive experience for visitors. The flora and fauna of the wetlands and their wetland habitats will be presented for everyone to appreciate and learn the importance of preserving, protecting, restoring and nurturing these precious resources. Also planned is an observation tower with spotting scopes. The Center will educate through direct contact, discovery-based activities and field trips emphasizing exploration, discovery, and imagination; and linking science, ecology, geography, history, sociology, and economics. The expected outcome is that each person can relate and apply some aspect of wetland preservation, protection and restoration in their local and/or regional area. The benefit of this project will be to highlight the threat to the land and people from coastal land loss and stimulate interest in coastal restoration and environmental sciences while exploring the unique natural resources and environmental issues of the region. Being only 25 minutes from New Orleans, this location is the right story, the right place and the right time.	Jefferson Parish	Estimated Project Cost \$7,000,000
Audubon Nature Institute	Louisiana Wetlands Gallery at Aquarium	Louisiana Wetlands Gallery at the Aquarium. With funding, Audubon will leverage the Aquarium's existing infrastructure, access to a large, geographically diverse audience, and proven experience in creating, engaging, educational exhibitry to create a new gallery focused on Louisiana's coast. The new gallery concept will transform the 7,450 square foot Mississippi River Gallery into a Louisiana Wetlands Gallery to exhibit the vast bio- diversity of Louisiana's coast while conveying the urgency of its fragile state and inspiring guests to take action to protect and restore our coastal ecosystem. The Louisiana Wetlands Gallery will interweave live animal exhibits and hands-on, interactive educational experiences to tell the story of Louisiana's coast as well as the importance of preserving coastal land and what each of us can do to make a difference.	Orleans Parish	\$6,000,000
Audubon Nature Institute	Louisiana Swamp Exhibit at Audubon Zoo	Louisiana Swamp Exhibit at Audubon Zoo. With funding, Audubon will refocus the interpretive exhibitry at the Louisiana Swamp and utilize this remarkable asset to share the story of our coast and inspire visitors to take action to preserve and restore coastal Louisiana. The revitalized Louisiana Swamp at Audubon Zoo will provide an entirely immersive experience designed to transport visitors to the Louisiana coast.	Orleans Parish	\$3,000,000
Audubon Nature Institute	Traveling Exhibits	Traveling exhibits. The storyline and experiences of the traveling exhibit will echo that of the new Louisiana Wetlands Gallery at Audubon Aquarium of the Americas, with the ability to adapt exhibit components regionally. Educational resources developed for the Louisiana Wetlands Gallery will be made available to museums that rent the touring exhibit to further enrich the traveling exhibit experience.		\$1,750,000
Audubon Nature Institute	Signature Film	Signature Film - Hurricane on the Bayou. To tell the story of Louisiana's coast before and after Hurricane Katrina.		\$5,000,000

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Jeff. Parish Dept of Env. Affairs	Wetland Harbor Activities Recreational Facility (WHARF) (CS-4); Jefferson Parish; Region 2; Barataria Basin; 29.87933262 / -90.14028758	Development of multi-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities; will afford access to adjacent wetlands, nearby State and Federal parks, and the abundant natural and cultural experiences offered by Louisiana's wetlands.	Jefferson Parish	
LDWF (Todd Baker)	Bayou Pointe Aux Chenes Fishing Piers; Lafourche & Terrebonne Parishes; Regions 2 & 3; Terrebonne Basin; 29.45195 / -90.46665	Docks/fishing piers will be constructed into the Grand Bayou #1 water management unit and into Bayou Pointe aux Chenes. By having the piers these fishing areas will be handicap accessible, more user friendly and safer. This area is a very popular fishing area and we have had several requests to enhance fishing opportunities on the WMA. Boaters will also benefit by using the piers as docks.	Lafourche and Terrebonne Parishes	
LDWF (Todd Baker)	Pass a Loutre WMA Campground Improvements; Plaquemines Parish; Region 2; Miss R. Delta Basin; 29.13931 / -89.1488	The campgrounds could use approximately 20 picnic tables and 20 BBQ pits. Four of them could also be enhanced by putting in boat docking structures and all need lighting. These improvements will enhance recreational opportunity on the Wildlife Management Area, will make the areas safer, and more attractive to outdoor enthusiasts.	Plaquemines Parish	
Beadfilters (Douglas Drennan)	Marine Finfish Hatchery for Stock Enhancement of Important Recreational Species Affected by the Oil Spill	Provide funds to construct and operate a Marine Finfish Hatchery for the culture and release of important marine finfish species such as spotted sea trout, red drum, flounder and blue fin tuna. The uncertainty about the effects of the oil spill on the impact of the eggs and larvae of the 2010 spawn in the Gulf necessitate the need for stock enhancement of these important recreational fish species. Est. cost \$50M		\$50,000,000
Randy Lanctot	Caminada Pass Bridge Fishing Pier Restoration; Jeff. Parish; Region 2; Barataria Basin	The Caminada Pass bridge fishing pier remains a popular fishing destination for anglers of all ages. Creating a first class fishing pier from the remains of the old wooden Highway 1 bridge across Caminada Pass would be a reparation with a direct nexus to the spill, unlike many of the other projects recommended in this long list. Est. cost under \$1M	Jefferson Parish	~\$1,000,000
Daniel Breaux, U.S. Fish and Wildlife Service; Neil Lalonde, U.S. Fish and Wildlife Service; Deborah Abibou, Coalition to Restore Coastal Louisiana	Plant marsh grass and trees in Louisiana's coastal zone using volunteers in Cameron, Orleans, St Tammany, Tangipahoa, Vermilion Parishes	The Coalition will plant marsh grasses Spartina patens and Spartina alterniflora and salt marsh grass on dedicated dredge cells up to 400 acres on Big Branch Marsh NWR.	Cameron, Orleans, St. Tammany, Tangipahoa, Vermillion Parishes	\$1,050,000
Lisa Valence, Council member, City of Westwego	WHARF Project: Wetlands Harbor Activities Recreational Facility in Jefferson Parish	This project involves the development of multi-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities. The development will afford access to adjacent wetlands, nearby State and Federal parks, and the abundant natural resources and cultural experiences offered by Louisiana's wetlands. Includes site acquisition, construction of entry complex, cabins, sensory gardens, meeting center, the forest centre, multipurpose fields and athletic complex.	Jefferson Parish	\$28,000,000
James Harris, USFWS	Promote public access and recreational use through hydrologic restoration of Bayou Sauvage channel, Bayou Sauvage NWR in Orleans Parish	Bucket dredging to restore the channel of Bayou Sauvage, Bayou Sauvage National Wildlife Refuge, Orleans, Parish. Dredge spoil to be used beneficially to restore cypress and live oak along bayou shoreline. This is not a navigation project.	Orleans Parish	\$1,800,000
Mark Van Mouwerik, NPS Guy Hughes, NPS	Recreational Use Improvements at Barataria Preserve in Jefferson Parish - Jean Lafitte National Historic Park and Preserve - Barataria Unit	The park will work with Harpers Ferry Center to create a Wayside Plan for 30-35 new waysides and interpretive signs along the preserve's ten miles of trails and in parking areas at trail heads. Project includes: 1) Access improvements; 2) Education improvements; 3) Infrastructure improvements.	Jefferson Parish	\$9,350,000
Lauren Averill, Jefferson Parish	Town of Jean Lafitte Kayak and Pirogue Recreational Building and Education Program in Jefferson Parish	The project concept includes he design and construction of small water sport rental and storage building, the purchase of canoes, pirogues and equipment, and the funding to develop a safety and education program, and man the rental facility for the first 5 years.	Jefferson Parish	\$250,000
Sara Bradford, Audubon Nature Institute	Coastal Wetlands Education Center at Audubon Nature Institute in Orleans Parish	See Audubon Nature Institute Project Submission for additional details	Orleans Parish	\$10,750,000
Carla Chiasson, St. Charles Parish	Des Allemands Boat Launch in St. Charles Parish	Construction of a new boat launch facility in Des Allemands, Louisiana, to provide enhanced recreational opportunities. The proposed Des Allemands Boat Launch will improve public access for recreational boaters and anglers to the surrounding waterways, including Lake Des Allemands to the northwest of the launch, Petit Lake Des Allemands, Bayou Gauche, Lake Salvador and Lake Cataouatche to the southeast; and other Barataria Basin waterways in southeast Louisiana.	St. Charles Parish	\$1,841,116
Carla Chiasson, St. Charles Parish	Highway 90 Boat Launch in St. Charles Parish	Construction of a new boat launch facility in Luling, Louisiana, to provide enhanced recreational opportunities. The launch will improve public access for recreational boaters and anglers to the surrounding waterways, including Lake Cataouatche, Lake Salvador, and other Barataria Basin Waterways all located to the south of the Launch and Des Allemands to the west.	St. Charles Parish	\$2,650,404

Agency/Entity/ Person	Project Title	Project Description/ Summary	Project Location	Estimated/Proposed Project Cost
Henry C. "Bo" La Grange, St. Mary Parish	Improvements to Grand Avoille Boat Launch in St. Mary Parish	Remove broken concrete and or rip-rap and shape subgrade for ramp. Install 25' x 30' concrete boat ramp and 20' x 40' concrete apron of 6" rein concrete. Install 8' wide timber mooring docks along each side of boat ramp. Grade existing shell/limestone parking to establish drainage and install 8" compacted limestone for parking.	St. Mary Parish	\$247,426
Henry C. "Bo" La Grange, St. Mary Parish	Fishing Pier at Fontenot Boat Launch (Berwick) in St. Mary Parish	The proposed project entails the construction of a Fishing Pier for pedestrian use on the Atchafalaya River side of the protective peninsula at the Jessie Fontenot Boat Launch south of Berwick, LA, in St. Mary Parish. The boat launch is used by thousands of sport fishermen annually accessing the gulf region. The pier would provide recreational opportunities for those without boats, especially those with accessible needs, to access the benefits of outdoor recreational fishing.	St. Mary Parish	\$592,340
Jim Firmin, St. Mary Parish Government	Fishing Pier at Fontenot Boat Launch (Berwick) in St.Mary Parish	The proposed project entails the construction of a Fishing Pier for pedestrian use on the Atchafalaya River side of the protective peninsula at the Jessie Fontenot Boat Launch south of Berwick, LA, in St. Mary Parish. The boat launch is used by thousands of sport fishermen annually accessing the gulf region. The pier would provide recreational opportunities for those without boats, especially those with accessible needs, to access the benefits of outdoor recreational fishing.	St. Mary Parish	\$275,000
Wayne (Keller?), Grand Isle Community Development Team	Grand Isle Butterfly Dome in Jefferson Parish	The Grand Isle Butterfly Dome was first erected over 15 years ago with funds from private and corporate donations. It is a 42 foot diameter geodesic structure, covered with greenhouse shadecloth. The structure contains flowers and plants specifically chosen to maintain native butterflies. It has been an extremely popular attraction for local residents, tourists, and school tours. Most of our donations for its upkeep came from petroleum related companies, whose contributions are no longer forthcoming.	Jefferson Parish	\$20,000
Natalie Peyronin, Environmental Defense Fund; Rebecca Triche Louisiana Wildlife Federation; Cynthia Duet, National Audubon Society; David Muth, National Wildlife Federation; Simone Maloz, Restore or Retreat	Elmer's Island: enhanced recreational opportunities in Jefferson Parish	We support the advancement of recreational opportunities for the culturally significant and publicly accessible refuge to enhance recreational fishing, bird watching, outdoor education programs and volunteer opportunities, as well as encouraging and supporting research on the wildlife and fisheries resources and protecting endangered and threatened species through regulatory and habitat management.	Jefferson Parish	

Agency/Entity/ Person	Project Title	Project Description/ Summary
Vincent Guillory, Lafourche Parish Game and Fish Commission Leslie Suazo, Ducks Unlimited Andrew Barron, Barataria - Terrebonne National Estuary Program Amanda Voisin, Lafourche Parish Government	Lake Fields and Lake Long Water Quality Restoration Plan	The original Lake Fields restoration plan was developed in 2008 by the Lafourche Parish Game and Fish Commission (Commission) with input from a number of conservation organizations and governmental institutions, including Ducks Unlimited (DU), Barataria-Terrebonne National Estuary Program (BTNEP), Louisiana Department of Wildliff and Fisheris (LDWF), LJS. National Resources Conservation Service (INCS), and the North Lafourche Levee District (NLLD). Lake Fields and Lake Long are located within the Lake Fields Game and Fish Preserve (Preserve), which is west of Lockport, south of U.S. Highway 90, and north of the Gulf Intracoastal Waterway (GIWW) in Lafourche Parish, Louisiana and within an inter-levee basin between the Bayou Lafourche natural ridge to the east and the Bayou Grand Coteau ridge to the west (Figure 1). The Bayou Folse /Lake Fields watershed of 52.214 acres originates just south of Thibodaux and is fairly narrow at the upper end but begins to significantly widen around US Hwy. 90. The watershed has been significantly altered but is sparsely populated except for the Bayou Lafourche cornidor. The drainage basin is 36.7% agriculture/cropland/grassland, 20% fresh marsh, 18.4% wetland forests, 9.4% urban, and 8.5% water, with the remainder miscellaneous forests or wetlands. Lake Fields is approximately 20.00 acres in size while Lake Bayou Lake. Bayou Dulkar, Company Canal, Commercial Canal, Hollywood Canal, and GIWW (Figures 2 and 3). Except for Lake Fields include the upper Bayou Polse watershed, Bayou Lafourche via Company Canal, and the WW (Figures 2 and 3). Except for Lake Fields include the upper Bayou Polse watershed, Bayou Lafourche via Company Canal, and they WW ia Company Canal. Thinflow of freshwater sources for Lake Fields include the upper Bayou Polse watershed, Bayou Lafourche via Company Canal, and they WW ia Company Canal. Thinflow of freshwater sources for Lake Fields include the upper Bayou Polse watershed, Bayou Lafourche via Company Canal, and they WW ia Company Canal. Thinflow of fres
Ray Herndon, The Conservation Fund Louisiana Department of Wildlife and Fisheries	Joyce Wildlife Management Area-Land Acquisition	The Conservation Fund is working in partnership with Louisiana Department of Wildlife and Fisheries to acquire 2,975 +/- acres, as an additional to the Joyce Wildlife Management Area (WMA). This acreage is located in Tangipahoa and St. Tammany Parishes, and provides a variety of habitat types, from emergent wetlands, to coastal forested wetlands, to a substantial impoundment, and a smaller upland component. The addition of this tract would compliment the existing recreation opportunities, providing expanded fishing and hunting opportunities within the substantial wetland complex, and it would provide recreation on the upland acreage which does not currently exist on this WMA. This project will also support the health of the Lake Pontchartrain Basin, through the permanent protection of wetlands, which will continue tof filter freshwater flows from the Tangipahoa River.
Louisiana Department of Environmental Quality	Statewide Mercury Initiative Implementation	The location for this project will be statewide. The LDEQ proposes to continue statewide sampling and risk assessment of fish for mercury contamination in water bodies throughout the state and maintenance of four mercury atmospheric deposition network sites in the state. Further, dissemination of risk information, blood screenings, and sign repair and replacement would occur throughout the state. Mercury in the environment poses a significant health threat to consumers of certain fishes. Whether obtained recreationally or commercially, consumption of too many of some species can result in neurological damage, especially in young children and a developing fetus. Mercury is present in fish tissue as a result of anthropogenic (human-influenced) contributions added to background concentrations of the naturally occurring element. This project proposes to 1) conduct sampling of mercury in fish tissue which will be used to reevaluate current fish consumption advisories due to mercury, as well as to look at additional water bodies where advisories may be required, 2) disseminate mercury risk assessment information and conduct targeted blood screening; 3) repair and replace mercury fish consumption advisory signs, and 4) resume participation in the National Atmospheric Deposition Program (NADP), Mercury Deposition Network (MDN) for determination of total mercury concentration and deposition in precipitation. The primary goal of this comprehensive Mercury project is to enhance overall ecosystem health by benefitting the estuaries that are integral habitat providing food, shelter, and nursery grounds for many of the Gulf's ecologically and economically important species. Given the important link between healthy natural resources and recreational activities, restoring habitats and improving water quality will also provide human use benefits. Results of the sampling effort will be used to reevaluate current fish consumption advisories may be required.
Louisiana Department of Wildlife and Fisheries	Chitimacha Boat Launch	Chitimacha boat launch; construction of a new boat launch facility.

Project	
Location	

Estimated/Proposed Project Cost

\$700,000

Tangipahoa and St. Tammany Parishes

\$5,500,000

\$13,259,568

St. Mary Parish

\$650,000

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