



St Bernard Parish Coastal Projects

PROJECTS IN CONSTRUCTION

SELA – HSDRRS (PO-0057)

HSDRRS - Estimated Cost \$1,200,000

Project reduces damages due to rainfall flooding in Orleans and Jefferson Parishes through increases in pump station capacity, and improvements in surface and sub-surface drainage features.

Violet Canal North Levee Alignment (PO-0170)

State - Estimated Cost \$4,000,000

For the construction of a levee/floodwall in the vicinity of the Violet Canal, to maintain flood protection for the public and provide mutual benefit to the citizens within the territorial jurisdictions of Orleans Levee District and Lake Borgne Basin Levee District. The floodwall is required for the certification of the Forty Arpent and Florida Avenue levee systems located in Orleans Parish and St. Bernard Parish.

St. Bernard Pump Station Repairs

Surplus – Estimated Cost \$4,000,000

Project involves repairs and renovations to multiple pump stations currently operated by the Southeast Louisiana Flood Protection Authority- East in St. Bernard Parish.

Violet Canal Repairs

Surplus – Estimated Cost \$1,000,000

Project provides upgrades to the existing Violet Canal Siphon in St. Bernard Parish.

Lake Lery Marsh Creation (BS-0034)

RESTORE – Estimated \$2,780,000

This project is part of an ongoing phased approach to restore and protect the Lake Lery area. It will use dredged material from Lake Lery to create 39 acres of marsh.

PROJECTS IN ENGINEERING AND DESIGN

East Bank Sediment Transport Corridor (BS-0033)

State - Estimated Cost \$1.1 million

This project will investigate the establishment of a sediment pipeline corridor on the East Bank of the Mississippi River. St. Bernard Parish will develop the East Bank Sediment Transport Corridor Project Preliminary Design and Implementation Plan to include the necessary engineering, environmental, geotechnical, economic, logistical, and land rights requirements for implementation.

Sediment Diversion Implementation and Program Management (LA-0276)

NFWF – Estimated Cost \$7.8 million

This project will include all work involved in the development of the Diversion Management program. This will be performed by CPRA personnel and CH2M and will initially result in the development of full Engineering and Design scopes for both the Mid-Barataria and Mid-Breton diversions.

Golden Triangle Marsh Creation (PO-0163)

RESTORE - Estimated Cost \$54.5 million

This project would complete the engineering and design to create approximately 600 acres of marsh within the Golden Triangle Marsh system.

Biloxi Marsh Living Shoreline Project (PO-0174)

RESTORE - Estimated Cost \$57.7 million

The project would create a living breakwater structure by mechanically placing a manufactured structure, or suite of structures, off the shoreline of Eloi Bay and Eloi Point, near the mouth of Bayou La Loutre.

Bayou LaLoutre Ridge Restoration and Marsh Creation (PO-0178)

CWPPRA - Estimated Cost \$31 million

This project will create an approximate 31.7-acre ridge feature with material from bucket dredging Bayou La Loutre. Additionally dredged material from Lake Borgne will create 163 acres of marsh and nourish approximately 258 acres along Lena Lagoon.

Lake Borgne Marsh Creation – Increment 1 (PO-0180)

NRDA - Estimated Cost \$127 million

This project will create approximately 1,548 acres of marsh, extending approximately four miles from Shell Beach on the southern rim of Lake Borgne to Lena Lagoon on the east.

NRDA REC USE PROJECTS

St. Bernard State Park Improvements

NRDA– State Parks - \$1,098,625

Renovation of the park entrance station; renovations and improvements to restroom and bathhouse facilities; and construction of an event pavilion.

Statewide Artificial Reefs

NRDA – LDWF – Estimated Cost \$6,000,000

This project enhances eleven multipurpose reef sites across coastal Louisiana.

COMPLETED PROJECTS

Projects Completed in FY 2017

Lake Pontchartrain and Vicinity (PO-0063)

GNO-HSDRRS - Total Cost \$3,852,000,000

This project is currently designed to provide 100-year protection levels to the Greater New Orleans area on the east side of the Mississippi River in St. Charles, Jefferson, Orleans, and St. Bernard Parishes. It is through rehabilitation or new construction of over 150 miles of the levees and structures that will make up the Lake Pontchartrain and Vicinity Hurricane Protection System.

Living Shoreline (PO-0148)

CIAP - Total Cost \$14,300,000/State Dollars \$2,550,000

Provide protection to approximately 21 miles of shoreline in St. Bernard Parish from Eloi Point to the mouth of Bayou La Loutre around Lydia Point and Pauline Point and around the southern shore of Treasure Bay by installing living shoreline products.

Projects Completed in FY 2015

Biloxi Marsh (PO-0072)

State - Total Cost \$22,000,000/State Dollars \$22,000,000

The project goal was to minimize shoreline retreat that helps to protect a portion of the marshes in the Biloxi Wildlife Management Area, thus helping to save an ecosystem that also serves as a protective barrier for the City of New Orleans and surrounding area against surge and waves during tropical events.

Central Wetlands Riverbend (PO-0073-1)

CIAP - Total Cost \$2,000,000/State Dollars \$2,000,000

Hurricane Protection project along Lake Pontchartrain for St. Charles, St. John, St. James, and Ascension Parishes.

Projects Completed in FY 2014

Lake Pontchartrain and Vicinity, IHNC Surge Barrier, LPV-IHNC – 02 (PO-0055)

GNO-HSDRRS - Total Cost \$1,134,000,000

This project constructed a Hurricane Surge Barrier across the tip of Lake Borgne connecting the MRGO levees south of Bayou Bienvenue with the GIWW levees East of Michoud Canal with floodgates at Bayou Bienvenue and GIWW.

Projects Completed in FY 2013

Orleans Land Bridge SP & Marsh Creation (PO-0036-EB)

CIAP - Total Cost \$30,420,000

The project is located along 7.8 miles (41,337 linear feet) of the northwestern shoreline of Lake Borgne in Orleans Parish. It is intended to protect and prevent the loss of up to 140 acres of marsh and prevent/minimize shoreline retreat. Included in the protected area is the 23,000-acre Bayou Sauvage National Wildlife Refuge, the nation's largest urban wildlife refuge.

MRGO and Lake Borgne (Shell Beach Segment) (PO-0095)

FEDERAL - Total Cost TBD

This project will construct approximately 15,700 linear feet of stone foreshore dike along the southern shoreline of Lake Borgne, west of Shell Beach. CPRA is acquiring portions of the four oyster leases that are impacted by this project.

Projects Completed in FY 2011

St. Bernard Parish 40 Arpent Levee Repairs (PO-0061)

State - Total Cost \$5,000,000/State Dollars \$5,000,000

This project is set up to improve and raise low reaches of the Forty Arpent Levee in St. Bernard Parish, therefore, adding additional protection to citizens and property.

Emergency Barrier Berms (LA-0163)

Emergency - Total Cost \$251,000,000/State Dollars \$251,000,000

In June 2010, the State began construction of barrier berms along the Chandeleur Islands east of the Mississippi River (East Barrier Berm) and from Shell Island to Scofield Island west of the river (West Barrier Berm) in a robust effort to safeguard Louisiana's coast from the effects of oil from the Deepwater Horizon disaster.

Projects Completed in FY 2010

MRGO Closure Structure (PO-0038-SF)

Federal - Total Cost \$14,116,500/State Dollars \$236,495

This is a 100% federal project. Design review of the closure structure as the State will be responsible for Operations and Maintenance. The state acquired real estate interests for structure.

Projects Completed in FY 2009

Lake Borgne Shoreline Protection (PO-0030)

CWPPRA - Total Cost: \$26,793,123/State Dollars \$3,831,468

The goal of this project was to maintain the integrity of the narrow strip of marsh that separates Lake Borgne from the Mississippi River Gulf Outlet (MRGO). This land helps protect the communities of Shell Beach, Yscloskey, and Hopedale from direct exposure to lake wave energy and storm surges. The goal was accomplished through construction of a continuous nearshore rock breakwater.

Projects Completed in FY 2007

Hopedale Hydrological Structure (PO-0165)

FEMA - Total Cost \$64,900

This FEMA project consists of repairs to the water control structure of the Hopedale Hydrologic Restoration (PO-24) project that was damaged by Hurricane Katrina in 2005. Repairs were made to damaged fencing, railings, and displaced riprap, and a lost portable hydraulic actuator is being replaced.

2017 COASTAL MASTER PLAN PROJECTS

Risk Reduction Projects Year 1-30

Yscloskey/Delacroix Nonstructural Risk Reduction (STB.01N)

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

St. Bernard Nonstructural Risk Reduction (STB.02N)

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

Risk Reduction Projects Year 31-50

Greater New Orleans High Level Structural Protection (001.HP.04)

Improvements of existing Hurricane and Storm Damage Risk Reduction System levees surrounding the East Bank of Greater New Orleans to elevations between 19 and 35 feet NAVD88. Project features approximately 202,000 feet of earthen levee and approximately 242,100 feet of T-wall.

Restoration Projects: Year 1-10

Central Wetlands Diversion (001.DI.18)

Diversion into Central Wetlands near Violet to provide sediment for emergent marsh creation and freshwater to sustain existing wetlands, 5,000 cfs capacity.

Golden Triangle Marsh Creation (001.MC.13)

Creation of approximately 3,900 acres of marsh in Golden Triangle Marsh between the MRGO and GIWW to create new wetland habitat and restore degraded marsh.

Bayou Terre aux Boeufs Ridge Restoration (001.RC.100)

Restoration of approximately 91,200 feet of historic ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along Bayou Terre aux Boeufs.

Restoration Projects: Year 11-30

Breton Marsh Creation - Component A (001.MC.06a)

Creation of approximately 12,000 acres of marsh in the Breton Marsh east of Delacroix Island to create new wetland habitat and restore degraded marsh.

Lake Borgne Marsh Creation - Component A (001.MC.07a)

Creation of approximately 5,900 acres of marsh along the south shoreline of Lake Borgne near Proctors Point to create new wetland habitat and restore degraded marsh.

Central Wetlands Marsh Creation - Component A (001.MC.08a)

Creation of approximately 2,800 acres of marsh in Central Wetlands near Bayou Bienvenue to create new wetland habitat and restore degraded marsh.

Bayou LaLoutre Ridge Restoration (001.RC.01)

Restoration of approximately 108,900 feet of historic ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along Bayou LaLoutre.