



Vermilion Parish Coastal Projects

PROJECTS IN CONSTRUCTION

Cole's Bayou Marsh Restoration (TV-0063)

CWPPRA - Estimated Cost \$24.9 Million

The specific goals of the project are: 1) create 365 acres of brackish marsh in recently formed shallow open water; 2) nourish 53 acres of existing brackish marsh; and 3) increase freshwater and sediment inflow into interior wetlands by improving project area hydrology.

Freshwater Bayou Shoreline Protection

SURPLUS – Estimated Cost \$3,600,000

PROJECTS IN ENGINEERING AND DESIGN

Freshwater Bayou Marsh Creation (ME-0031)

CWPPRA - Estimated Cost \$26.8 Million

The project goals include: 1) creating/nourishing marsh and associated edge habitat for aquatic species through pipeline sediment delivery via dedicated dredging from the Gulf of Mexico or beneficial use of maintenance dredging from Freshwater Bayou Canal; and 2) restoring a wetland buffer between the large open water areas in the Mermentau Basin and Freshwater Bayou.

North Vermilion Bay Shoreline Protection (TV-0077)

STATE and Surplus - Estimated Cost \$7.9 Million

This project involves the construction of approximately 9500 ft. of shoreline protection along the north rim of Vermilion Bay on the east and west sides of the mouth of Boston Canal in Vermilion Parish.

Freshwater Bayou Canal Shoreline Protection

RESTORE MATCHING – Estimated Cost \$4,590,000

The main purpose of the project is to provide shoreline protection by constructing approximately 10,600-linear feet of foreshore rock dike along the eastern bank of Freshwater Bayou Canal to prevent further deterioration of shoreline areas and existing adjacent marsh. This will benefit the wetlands and ecosystems surrounding FWB by preventing further shoreline erosion and tidal scour, and reducing saltwater intrusion.

PROJECTS IN PLANNING

Southwest Coastal Louisiana Feasibility Study (LA-0020)

WRDA/SURPLUS – Estimated Total Cost \$3,392,226,000

The project consists of an integrated suite of ecosystem restoration and hurricane protection measures to address the coastal issues of Southwest Louisiana (including coastal areas in Acadia, Beauregard, Calcasieu, Cameron, Iberia, Jefferson Davis, Lafayette, and Vermilion parishes). Component measures include shoreline stabilization, marsh creation, salinity control, hurricane protection, and chenier restoration. Project was authorized December 7, 2005.

NRDA REC USE PROJECTS

Statewide Artificial Reefs

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

This project enhances eleven multipurpose sites across coastal Louisiana.

COMPLETED PROJECTS

Projects Completed in 2016

Surplus Freshwater Bayou Bank Stabilization (TV-0076)

State - Total Cost \$1,300,000/State \$1,300,000

This project will utilize \$1,300,000 remaining from the ME-25 SF project to augment the TV-11B- EB foreshore rock dike feature along Freshwater Bayou.

Projects Completed in 2015

Marsh Creation Near Freshwater Bayou (ME-0025-SF)

State - Total Cost \$5,700,000/State \$5,700,000

Marsh Creation near Freshwater Bayou, a 2007 surplus project, will construct approximately 96 acres of freshwater marsh near the intersection of Humble Canal and Freshwater Bayou.

Freshwater Bayou Bank Stabilization (TV-0011-B-EB)

CIAP - Total Cost \$13,568,804

Located in Vermilion Parish, this project consists of approximately seven miles of rock revetment shoreline protection along four critical areas of the Freshwater Bayou navigation channel.

Projects Completed in 2012

Performance Evaluation - Rockefeller Monitoring (LA-0012-1)

CIAP - Total Cost \$404,637

This CIAP Performance Evaluation project involved the monitoring of three types of shore structures constructed at Rockefeller Refuge as a demonstration to determine which type(s) are successful in protecting the shoreline.

2017 COASTAL MASTER PLAN PROJECTS

Risk Reduction Projects Year 1-30

Vermilion Nonstructural Risk Reduction (VER.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.

Vermilion - Abbeville/Delcambre Nonstructural Risk Reduction (VER.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

Abbeville and Vicinity (004.HP.15)

Construction of a levee to an elevation between 15.5 to 20 feet NAVD88 in Iberia and St. Mary Parishes between the Delcambre Canal and the Charenton Canal.

Restoration Projects: Year 1-10

East Rainey Marsh Creation (03b.MC.07)

Creation of approximately 6,300 acres of marsh in the eastern portion of Rainey Marsh to create new wetland habitat and restore degraded marsh.

Freshwater Bayou North Marsh Creation (004.MC.100)

Creation of approximately 8,900 acres of marsh in Vermilion Parish west of Freshwater Bayou to create new wetland habitat and restore degraded marsh.

Freshwater Bayou South Marsh Creation (004.MC.101)

Creation of approximately 6,800 acres of marsh in Vermilion Parish west of Freshwater Bayou to create new wetland habitat and restore degraded marsh.

Freshwater Bayou (Belle Isle Canal to Lock) (03b.SP.01)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along approximately 36,000 feet on the east bank of Freshwater Bayou Canal from Belle Isle Canal to Freshwater Bayou Lock to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Vermilion Bay and West Cote Blanche Bay (03b.SP.06a)

Shoreline protection through rock breakwaters of critical areas along the east shoreline of Vermilion Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Freshwater Bayou Canal Shoreline Protection (004.SP.03)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along approximately 7,500 feet of the south bank of Freshwater Bayou Canal at Little Vermilion Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Gulf Shoreline Protection (Calcasieu River to Rockefeller) (004.SP.05a)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along the Gulf shoreline between Calcasieu River and Freshwater Bayou to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Restoration Projects: Year 11-30

West Rainey Marsh Creation (004.MC.07)

Creation of approximately 9,700 acres of marsh at Rainey Marsh near the southeast bank of the Freshwater Bayou Canal to create new wetland habitat and restore degraded marsh.

East Pecan Island Marsh Creation (004.MC.16)

Creation of approximately 10,200 acres of marsh between Pecan Island and the west bank of the Freshwater Bayou Canal to create new wetland habitat and restore degraded marsh.

White Lake Marsh Creation (004.MC.102)

Creation of approximately 10,600 acres of marsh in Vermilion Parish east of White Lake to create new wetland habitat and restore degraded marsh.

Restoration Projects: Year 31-50

Cheniere au Tigre Ridge Restoration (004.RC.02)

Restoration of approximately 77,800 feet of Bill and Cheniere au Tigre Ridges to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Pecan Island Ridge Restoration (004.RC.03)

Restoration of approximately 43,800 feet of Pecan Island Ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.