April 2019
Cost figures as of: aaaDatePadPad

East Delacroix Marsh Creation and Terracing (BS-37)

Project Status

Approved Date: 2019 **Project Area:** 597 acres
Approved Funds: $3.64 M **Total Est. Cost**: $39.8 M
Net Benefit After 20 Years: 314 acres
Status: Engineering and Design
Project Type: Marsh Creation
PPL #: 28

Location

This project is located in Region 2, Breton Basin, St. Bernard Parish.

Problems

Hurricanes Katrina and Rita caused the majority of wetland loss in the project area. Wind erosion and saltwater intrusion have resulted in loss of marsh vegetation and wetland soils. Marsh loss has increased exposure of Delacroix to flooding from the east/southeast. The 1984 to 2018 USGS loss rate is -1.58%/yr for the extended project boundary area.

Drone image of the marsh creation area facing northeast.

Restoration Strategy

The project goal is to create and nourish approximately 406 acres of marsh and construct approximately 12,950 linear feet of terraces (approximately 8 acres) utilizing a layout to help protect the community of Delacroix.

Sediment would be hydraulically dredged from Lake Lery and placed in two confined disposal areas creating 353 acres of marsh and nourishing 53 acres of existing marsh. Two creation cells allow a channel for the existing pump station. Approximately 12,950 ft of earthen terraces would be constructed. The side and crown of the terraces would be planted with appropriate bare root plants in one row per side and crown.

Two additional areas of deteriorating marsh south and east of the proposed project will be investigated should the project be considered for further evaluation. Therefore, data acquisitioned for Engineering & Design will include an additional 114 acres to allow flexibility for analysis of these alternate features.

Progress to Date

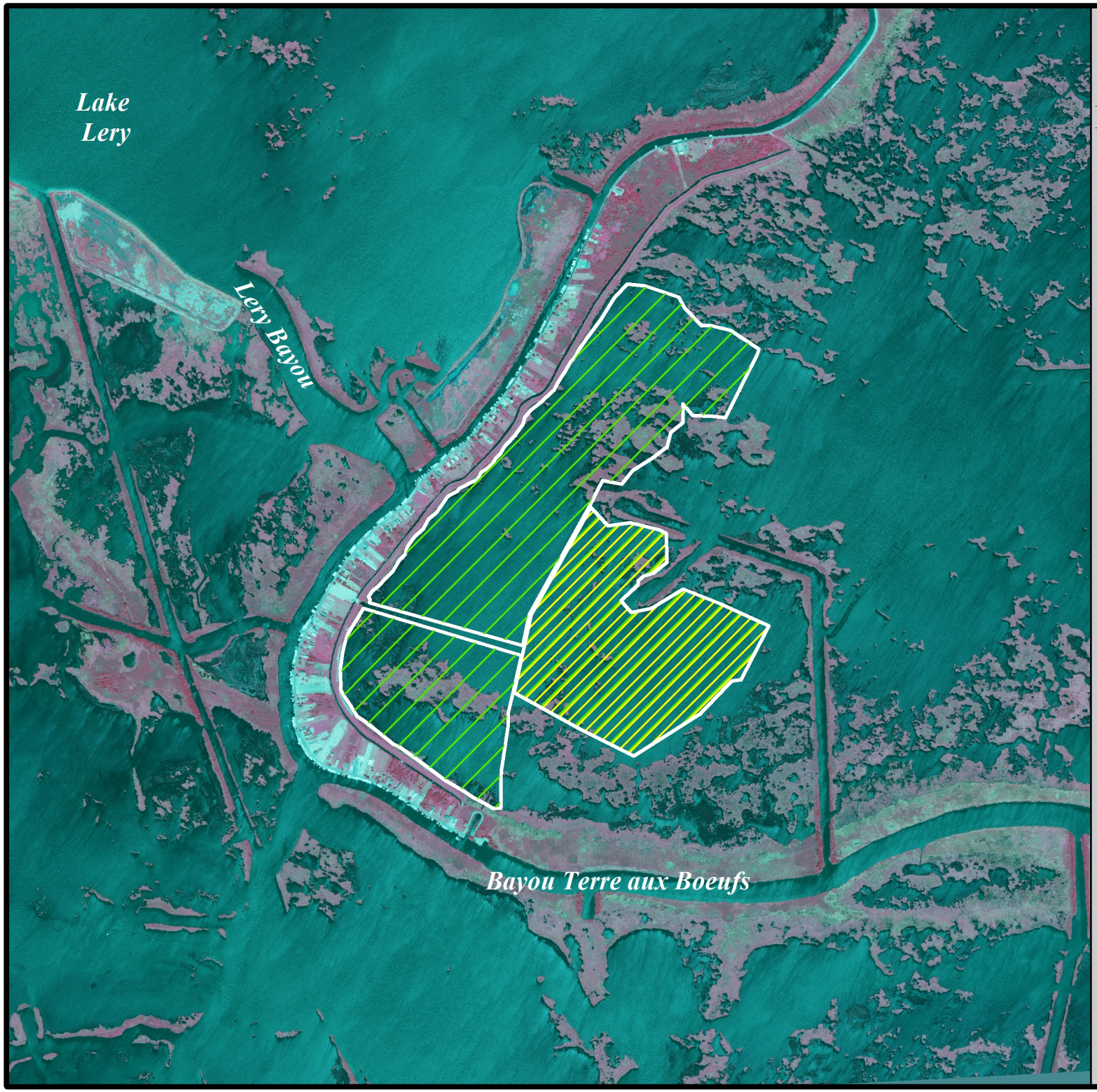
This project was approved for Phase I Engineering and Design in February 2019.

The project is on Priority Project List (PPL) 28.

For more information, please contact:

Federal Sponsor:
National Marine Fisheries Service
Baton Rouge, LA
(225) 389-0508

Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4733



East Delacroix Island Marsh Creation (BS-37)

Terrace Field *

Confined Disposal Marsh Creation & Nourishment *

Project Boundary

*denotes proposed features

USGS
science for a changing world

N

0.2 0 0.2 0.4 Kilometers

0.2 0 0.2 0.4 Miles

Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
Wetland and Aquatic Research Center
Coastal and Ocean Restoration Branch
Baton Rouge, La.

Background Imagery:
2017 NAIP Photography

Map Date: February 20, 2019
Map ID: USGS-NWRC 2019-11-0008
Data accurate as of: February 14, 2019