November 2020
Cost figures as of: February 2023

No Name Bayou Marsh Creation & Nourishment (CS-78)

Project Status

Approved Date: 2015 **Project Area:** 539 acres
Approved Funds: $29.7 M **Total Est. Cost**: $31.2 M
Net Benefit After 20 Years: 468 acres
Status: Engineering and Design
Project Type: Marsh Creation
PPL #: 24

Location

Region 4, Calcasieu-Sabine Basin, Cameron Parish

Problems

The project area is located in the Cameron-Creole Watershed Management Area which protects approximately 64,000 acres in the watershed. It includes a 16.5 mile levee along Calcasieu Lake and five large concrete water control structures to manage the unit and prevent the effects of saltwater intrusion, by managing salinity, tidal exchange, water levels, and estuarine organism movement into and out of the watershed. The Calcasieu Ship Channel, west of the project area, provides an avenue for the rapid movement of high-salinity water into the marshes around Calcasieu Lake. This movement increased salinities in the area, resulting in plant death and marsh loss. The weakened marshes located south of Calcasieu Lake have also been severely damaged by hurricanes. Marshes that once provided a buffer to the southwest rim of Calcasieu Lake are now shallow open water areas.

Restoration Strategy

The proposed project's primary feature is to create and/or nourish approximately 539 acres of saline marsh (478 acres created and 61 acres nourished) south of Calcasieu Lake. To achieve this, approximately 2.12 million cubic yards of sediment will be placed into the shallow water marsh creation area to an elevation of +1.5 ft NAVD 88 after being hydraulically pumped from a borrow area in Calcasieu Lake located northeast of the marsh creation area. Containment dikes will be constructed around the marsh creation area to keep material onsite during pumping. Once pumping has been completed, the containment dikes will be degraded to the current platform elevation and gaps will be excavated.

Photograph taken towards fringe marsh from the open water of the No Name Bayou Marsh Creation and Nourishment project.

Progress to Date

This project was approved for Phase I Engineering and Design in January 2015

This project is on Priority Project List (PPL) 24.

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

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Marsh Creation *

Project Boundary

*denotes proposed features

USGS
science for a changing world

N

0.25 0 0.25 0.5 Kilometers

0.25 0 0.25 0.5 Miles

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

Background Imagery:
2019 NAIP Photography

Map Date: August 24, 2020
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