March 2022

Cost figures as of: February 2023

Northeast Turtle Bay Marsh Creation Extension (BA-258)

Project Status

Approved Date: 2022 **Project Area:** 423 acres
Approved Funds: $3.59 M **Total Est. Cost**: $37.2 M
Net Benefit After 20 Years: 343 acres
Status: Engineering and Design
Project Type: Marsh Creation
PPL #: 31

Location

Region 2, Barataria Basin, Jefferson Parish

Problems

Historic wetland loss in the Perot/Rigolettes mapping unit of the Barataria Basin has been caused by subsidence, sediment deprivation, and construction of access and pipeline canals. The Barataria Waterway has also allowed salt water and higher tidal energies to enter the area causing marsh loss. Interior ponds have expanded and coalesced as a result of subsidence and increased tidal energies. As ponds expand, increased wave fetch exacerbates interior shoreline erosion. Based on analysis conducted by USGS, loss rates in the project extended boundary are estimated to be -0.64% per year for the period 1984-2020.

Restoration Strategy

The proposed project will create approximately 362 acres and nourish approximately 61 acres of marsh (423 acres total) using sediment dredged from Turtle Bay. At this time, it is expected that the area will be fully contained with containment dike borrow from both inside and outside of the marsh creation cell. Containment dikes will be degraded as necessary to reestablish hydrologic connectivity with adjacent wetlands. In case the area does not re-vegetate on its own, the maintenance cost estimate includes funds to plant 25% of the created marsh at Year 3.

An area of open water with small, isolated fragments of marsh.

Progress to Date

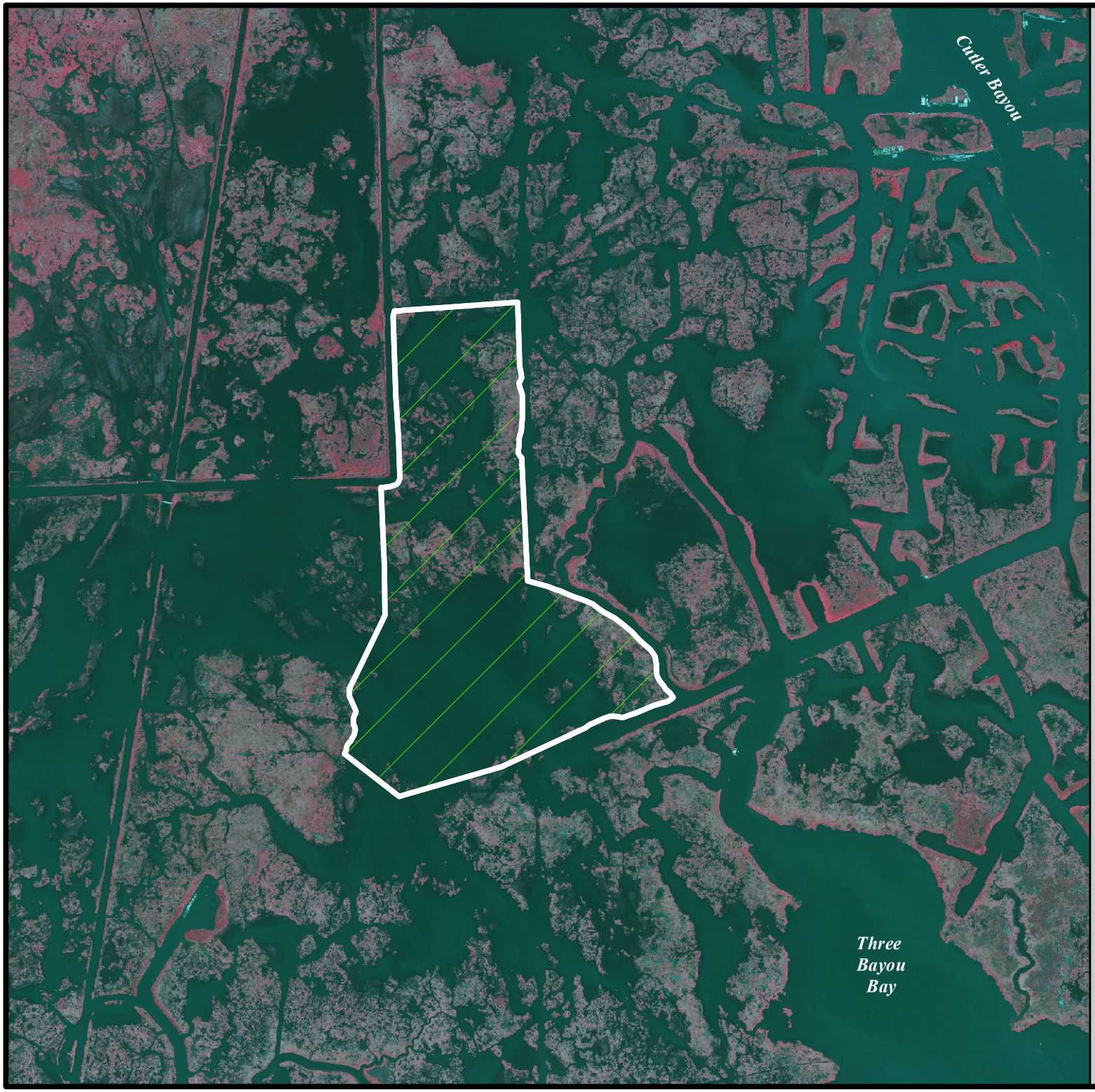
This project was approved for Phase I Engineering and Design in January 2022.

This project is on Priority Project List 31.

For more information, please contact:

Federal Sponsor:
Natural Resources Conservation Service
Alexandria, LA
(318) 473-7756

Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4736



Northeast Turtle Bay Marsh Creation Increment 2 (BA-258)

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 and Assessment Branch
Baton Rouge, La.

Background Imagery:
2019 NAIP

Map Date: February 10, 2022
Map ID: USGS-NWRC 2022-11-0008
Data accurate as of: January 14, 2022