



# Northeast Turtle Bay Marsh Creation Extension (BA-258)

## Project Status

**Approved Date:** 2022      **Project Area:** 423 acres  
**Approved Funds:** \$4 M      **Total Est. Cost:** \$37 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



Louisiana

Project Location



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

Cutler Bayou

Three  
Bayou  
Bay