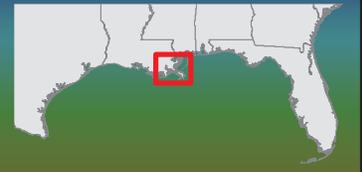




Gulf Coast  
Ecosystem  
Restoration  
Council

## Mississippi River Delta Watershed

West Grand Terre Beach Nourishment and Stabilization  
(LA\_RESTORE\_001\_000\_Cat1)



**Project Name:** West Grand Terre Beach Nourishment and Stabilization - Planning

**Cost:** Category 1: \$7,259,216

**Responsible Council Member:** State of Louisiana

**Project Details:** Louisiana's Barataria/Plaquemines barrier island system, which extends approximately 25 miles along the shoreline from West Grand Terre to Sandy Point, is experiencing island narrowing and land loss due to a complex interaction of environmental factors, hurricane impacts, and human activity. These barrier islands were also heavily impacted by the 2010 *Deepwater Horizon* Oil Spill.

**Activities:** The proposed project would include engineering and design of the West Grand Terre Barrier Island restoration, leading to construction-ready plans and specifications and the development of an adaptive management plan to guide decision-making for future project maintenance activities.

Deliverables for the project would include a full set of plans and specifications, a completed design report and an actionable adaptive management plan. If implemented in the future, the project would build an estimated 12,700 feet of beach and dune with an area of 235 acres, 66 acres of back-barrier marsh, and a rock revetment to protect the restored marsh.

**Environmental Benefits:** The proposed project, if implemented in the future, would restore and enhance interior wetlands, which would benefit Gulf estuarine dependent marine species. The project would also protect, restore, and maintain ecologically important breeding and nesting habitat for Gulf species such as colonial nesting waterbirds, including the brown pelican, Louisiana's state bird, and migratory shorebirds, including the endangered piping plover. In addition, the project would promote community resilience and reduce risk to infrastructure by providing storm surge and wave attenuation, while maintaining shoreline integrity and increasing the island's width and longevity.

**Duration:** The estimated timeline for this project is 16 months for engineering and design. If funded for implementation in the future, it would take approximately 12 months for construction.

**More information on this activity can be found in Appendix D. Mississippi River Delta; Unique Identifier: LA\_RESTORE\_001\_000\_Cat1.**



# Gulf Coast Ecosystem Restoration Council

## Mississippi River Delta

### West Grand Terre Beach Nourishment and Stabilization

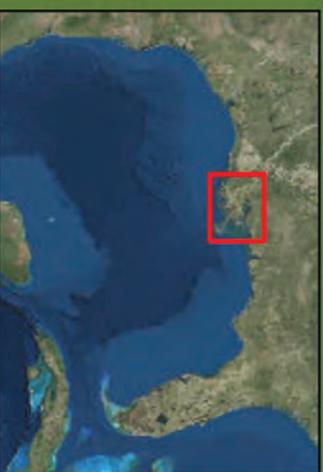
 Barrier Island Restoration

**Cost:** Category 1: \$7,259,216

**Sponsor:** State of Louisiana

**Project Status:** Planning

**Purpose:** This project would include the engineering and design for the restoration of West Grand Terre Barrier Island, which seeks to enhance dune and back-barrier marsh habitat in order to provide storm surge and wave attenuation, thereby addressing gulf shoreline erosion, diminished storm surge protection, and subsidence of back barrier marshes.



Map Date: August 10, 2015

Barataria Bay

Grand Terre

West Grand Terre

Grand Isle

Caminada Bay

Gulf of Mexico