**Project Status**

- **Approved Date:** 1991
- **Project Area:** 449 acres
- **Approved Funds:** $8.79 M
- **Total Est. Cost:** $8.79 M
- **Net Benefit After 20 Years:** 9 acres
- **Status:** Completed June 1999
- **Project Type:** Barrier Island Restoration
- **PPL #:** 1

**Location**

East Island, which is one of five islands that comprise the Isles Dernieres barrier island chain, is located approximately 13 miles south of Cocodrie, Louisiana, in Terrebonne Parish. It is bordered to the north by Lake Pelto and Terrebonne Bay, to the west by New Cut and Trinity Island, and to the south by the Gulf of Mexico.

**Problems**

The Isles Dernieres chain of barrier islands in Louisiana is experiencing land loss and fragmentation as a result of both natural processes and human activities. East Island was expected to be lost by the year 1998 if no restoration was completed. The entire Isles Dernieres chain was projected to be lost by the year 2010 without restoration.

Louisiana’s barrier islands buffer coastal areas from the storm surges that accompany hurricanes and tropical storms. They also protect interior fringe wetlands along the bay’s shoreline from waves coming from the open Gulf of Mexico. The island serves as a nursery area for waterfowl and migratory species.

**Restoration Strategy**

The project required restoration of approximately 7.5 miles of both Trinity and East islands. It involved the construction of temporary perimeter containment dikes behind considerable stretches of the islands.

Sediment was suction-dredged from previously defined borrow areas of Lake Pelto and used to hydraulically fill the areas within the retaining dunes and dike structures.

An elevated marsh platform sloping from the dunes to the back bay dikes was created. The dunes and filled marsh were also planted with various species of vegetation.

**Progress to Date**

Construction of this Isles Dernieres project is complete. The dredging and shaping was completed in October 1998 and the vegetative planting was completed in June 1999.

Approximately 300 acres of island were created. The “net benefit after 20 years” figure listed above is the amount projected to remain of the created acreage at the end of the 20-year life of the project. Restoration of barrier islands also provides benefits to the inland marsh due to wave energy reduction, which is not included in the benefited acreage figure.

Dune elevation of 8 feet, along with sand fencing and vegetation, is enhancing the barrier island’s capabilities to buffer storm surges to fringe marshes and coastal towns. The temporary containment dikes have degraded due to natural processes. Intertidal areas have developed naturally.

This project is on Priority Project List 1.

*For more project information, please contact:*

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