Project Status
Approved Date: 2002    Project Area: 1,117 acres
Approved Funds: $70.3 M    Total Est. Cost: $71.1 M
Net Benefit After 20 Years: 334 acres
Status: Completed
Project Type: Barrier Island Restoration
PPL #: 11

Location
The project is located along two sections of the Barataria Bay Shoreline in Plaquemines Parish. The Chaland Headland segment is about 3.1 miles long and is located between Pass La Mer and Chaland Pass. Pelican Island is located immediately east of the Empire Waterway; this segment was restored to maintain the integrity of 2.4 miles of shoreline.

Problems
Prior to restoration, wetlands, dune, and swale habitats within the project area had undergone substantial loss due to subsidence, sea-level rise, oil and gas activities (e.g., pipeline construction), and marine- and wind-induced shoreline erosion (gulfside and bayside). Marine processes acting on the abandoned deltaic headlands rework and redistribute previously deposited sediment. The shoreline had breached in several locations, resulting in the formation of new tidal inlets.

Restoration Strategy
The project’s primary goals were: 1) to prevent breaching of the barrier shoreline by increasing its width and average height and; 2) to protect and create dune, swale, and intertidal marsh habitats.

The Chaland Headland project restored and created about 230 acres of dune, beach, and berm; and 254 acres of intertidal saline marsh. Nearly 3.4 million cubic yards of sand and silt mined from an offshore borrow area in the Gulf of Mexico were placed to construct the dune and marsh features.

The Pelican Island project restored about 190 acres of dune, beach, and berm; and 396 acres of intertidal saline marsh. Over 2.6 million cubic yards of sand and silt were mined from two offshore borrow areas.

Additional features on both islands included installation of sand fencing concurrent with dune construction, dune and marsh vegetative plantings, and post-construction gapping of retention dikes and creation of tidal features.

Progress to Date
This project was selected for Phase I (engineering and design) funding at the January 2002 CWPPRA Task Force meeting and for Phase II (construction) funding in January 2004. The Chaland Headland portion of the project was completed in 2007. The Pelican Island portion of the project was completed in December 2012.

This project is on Priority Project List 11.

For more information, please contact:

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