Project Status
Approved Date: 2003  Project Area: 471 acres  
Approved Funds: $23.8 M  Total Est. Cost: $23.8 M  
Net Benefit After 20 Years: 326 acres  
Status: Completed  
Project Type: Marsh Creation  
PPL #: 12

Location
The project is located adjacent to Bayou Dupont and southeast of Cheniere Traverse Bayou in the vicinity of Ironton in Plaquemines Parish and Lafitte in Jefferson Parish, Louisiana. The general area lies west of LA Hwy 23 and just north of the Myrtle Grove Marina within the Barataria Basin.

Problems
Marshes in the project area have degraded to open water with only scattered clumps of low-lying vegetation remaining. Marsh degradation has resulted from a combination of lack of natural fresh water and sediment input, subsidence and the dredging of oil and gas canals.

Restoration Strategy
The proposed project included dredging sediment from the Mississippi River for marsh creation and pumping it via pipeline into an area of open water and broken marsh west of the Plaquemines Parish flood protection levee. The material was spread over the project area and obtained primarily with existing land features. Newly-constructed low containment dikes were necessary only along a limited portion of the project area. Native intertidal marsh vegetation was planted post construction.

The proximity of the project to the Mississippi River presented a prime opportunity to employ a pipeline delivery system that utilized the sediment resources from the river to restore and create wetlands. Unlike most marsh creation projects that involve borrowing fill material from adjacent shallow water areas within the landscape, this project utilized renewable river sediment, thus minimizing disruption of the adjacent water and marsh platform.

The Bayou Dupont project represents the first example of pipeline transport of sediment from the river to build marsh as a CWPPRA project. Results from this project helped demonstrate the value and efficacy of greater use of pipeline-conveyed river sediments for coastal restoration.

Progress to Date
Phase 1 was approved in January 2003. The Louisiana Department of Natural Resources (LDNR) Coastal Engineering Division performed the engineering and design services. Design was completed in November 2007; Phase 2 was approved in February 2008, and construction activities began in April of 2009. Approximately 25,935 linear feet of containment dike was used to create approximately 484 acres of sustainable marsh in Marsh Creation Areas 1 and 2. Increment 2 (funded through ARRA) added approximately 84 acres of marsh within 6,241 linear feet of containment dikes. The contractor demobilized completely by May 10, 2010. Final inspection was held on May 25, 2010.

This project is on Priority Project List 12.

For more information, please contact:

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Local Sponsor:  
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