



# Mississippi River Sediment Delivery System - Bayou Dupont (BA-39)

March 2010

Cost figures as of: May 2025

## Project Status

**Approved Date:** 2003      **Project Area:** 471 acres  
**Approved Funds:** \$24 M      **Total Est. Cost:** \$24 M  
**Net Benefit After 20 Years:** 326 acres  
**Status:** Construction  
**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 involves 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 will spread over the project area and be contained primarily with existing land features. Newly-constructed low containment dikes will be necessary only along a limited portion of the project area. Native intertidal marsh vegetation will be planted post construction.

The proximity of the project to the Mississippi River presents a prime opportunity to employ a pipeline delivery system that will utilize 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 will utilize 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 should serve to demonstrate the value and efficacy of greater use of pipeline-conveyed river sediments for coastal restoration.



Aerial view of Bayou Dupont.

## Progress to Date

The Louisiana Department of Natural Resources (LDNR) Coastal Engineering Division performed the engineering and design services. Construction activities began in April of 2009, construction completion is anticipated in the Spring/Summer 2010.

This project is on Priority Project List 12.

*For more information, please contact:*



**Federal Sponsor:**  
U.S. Environmental Protection Agency  
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**Local Sponsor:**  
Coastal Protection and Restoration Authority  
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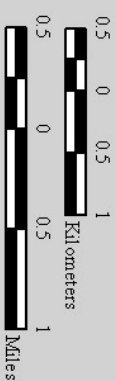




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-  Railroad Crossing
-  Highway Crossing
-  Temporary Containment Dikes \*
-  Sediment Delivery System \*
-  Borrow Site \*
-  Marsh Creation \*
-  Project Boundary

\* denotes proposed feature



Produced by:  
U.S. Department of the Interior  
U.S. Geological Survey  
National Wetlands Research Center  
Coastal Restoration Field Station

Back-ground Imagery:  
2005 Digital Orthophoto Quarter Quadrangle  
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