The project is located on Queen Bess Island north of Grand Isle and east of the Barataria Bay Waterway in Jefferson Parish, Louisiana.

Problems
Between 1956 and 1989, subsidence and erosion caused Queen Bess Island to shrink dramatically. Its average loss across this period was nearly 1 acre per year. The island's reduction in size from 45 to 17 acres only increased the frequency of storm-induced overwash, further degrading its role as a crucial nesting habitat for Louisiana's state bird, the endangered brown pelican (*Pelecanus occidentalis*).

Restoration Strategy
The initial project design was to use maintenance-dredged sediments to create marsh in shallow water areas adjacent to the Barataria Bay Waterway. However, oyster leases in or adjacent to the proposed marsh creation sites prohibited the use of all sites. As an alternative, in cooperation with the operations and maintenance of the channel, dredged material was used to enlarge Queen Bess Island.

An additional 9 acres of vegetated wetland were created adjacent to the state-funded Queen Bess project (BA-05b) by constructing a rock dike and filling the containment area with dredged material from the Barataria Bay Waterway. A breach was built on the north side of the rock dike to allow effluent to be routed from the containment area through the BA-05b project area and the original Queen Bess Island.

Vegetation has not colonized in this project's area because of its low elevation and persistent inundation with water.

There is a sediment deposition rate of 0.14 feet per year in the state-funded (BA-05b) project area and deposition rate of 0.31 feet per year on the original island. These rates indicate that the containment dike breach created by this project allowed a substantial amount of effluent to settle, as intended, in adjacent wetlands outside of the dredge-fill area.

This project was completed for $945,678, more than $250,000 under its original budget. Remaining funds may be used to clear marsh creation sites of oyster leases. The oyster lease sites would be used as marsh creation areas under the U.S. Army Corps of Engineers Barataria Bay Waterway Navigation Project.

This project is on Priority Project List 1.

For more project information, please contact:

**Federal Sponsor:**
U.S. Army Corps of Engineers
New Orleans, LA
(504) 862-1597

**Local Sponsor:**
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4736

www.LaCoast.gov