

PPL24 PROJECT NOMINEE FACT SHEET
January 29, 2014

Project Name:

Lake Barre Marsh Creation

Project Location:

Region 3, Terrebonne Basin, Terrebonne Parish. Southeast Montegut between Wonder Lake and Madison Bay.

Problem:

The marshes near the Madison Bay area have experienced tremendous wetland loss due to a variety of factors, including subsidence, saltwater intrusion, a lack of sediment supply, and oil and gas activities. The loss of the marshes have exposed significant infrastructure to open water conditions and has made the area less suitable for various wildlife and fisheries. The 1983 to 1990 loss rate for the Montegut area is 3.5%/yr. (Coast 2050). With high wetland loss in the vicinity, the Montegut Levee to the north of the project area has become extremely susceptible to high wave energies caused by the increased fetch distance in the now the open water areas of Madison Bay and Wonder Lake. The Montegut Levee breached during Hurricanes Lili and Rita in 2002 and 2005, respectively.

Goals :

This project would strategically tie together three ridges (Bayou Terrebonne Ridge, Bayou St. Jean Charles Ridge, and Point au Chene Ridge) and two other CWPPRA projects (Maddison Bay Marsh Creation and Terracing project and Island Road Marsh Creation project).

Specific goals: 1) Create 440 acres and nourish 19 acres of emergent brackish marsh.

Proposed Solution:

This project would propose to create/nourish approximately 459 acres of emergent marsh by hydraulically dredging material from Maddison Bay and placing that material in in shallow open water areas between Wonder Lake and Maddison Bay. Dredge material would be placed in open water areas to a target height of +1.4 NAVD 88. All constructed containment dikes would be sufficiently gapped or degraded no later than 3 years post construction to allow for fisheries access.

Preliminary Project Benefits:

1) What is the total acreage benefited both directly and indirectly?

This total project area is 459 ac.

2) How many acres of wetlands will be protected/created over the project life?

Approximately 353 ac of brackish marsh will be protected/created over the 20 year project life.

3) What is the anticipated loss rate reduction throughout the area of direct benefits over the project life (<25%, 25-49%, 50-74%, and >75%)?

The anticipated land loss rate reduction throughout the area of direct benefits would be 50-74% over the 20 year project life.

4) *Do any project features maintain or restore structural components of the coastal ecosystem such as barrier islands, natural or artificial levee ridges, beach and lake rims, cheniers, etc?*

The project would help restore portions of the Wonder Lake shoreline and portions of the Bayou Barre bankline.

5) *What is the net impact of the project on critical and non-critical infrastructure?*

This project would help protect the Point Barre road, several camps, and some oil and gas infrastructure.

6) *To what extent does the project provide a synergistic effect with other approved and/or constructed restoration projects?*

This project would work synergistically with two other projects (Maddison Bay Marsh Creation and Terracing project and Island Road Marsh Creation project) which would tie together three ridges (Bayou Terrebonne Ridge, Bayou St. Jean Charles Ridge, and Pointe aux Chene Ridge). This would also work synergistically with the TE-83 project that will be located just south of the project area.

Identification of Potential Issues:

There would most likely be some pipeline issues and numerous oyster leases within the project area.

Preliminary Construction Costs:

The estimated construction cost including 25% contingency is estimated between \$25-\$30 M.

Preparer(s) of Fact Sheet:

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