Southwest Louisiana Regional Update

Darrell Pontiff
CPRA Regional Operations Manager
October 24, 2018
Cameron Parish Shoreline Project

(CS-33)
Project Cost: $45.8 million (100% 2007-08 State Surplus funds)

Construction Cost: $40+ million

Project Features:
- Constructed 5+ miles of beach
- Pumped 2 million cubic yards of sand
- Sand source 20+ miles in Gulf of Mexico
- Sand fencing
- Volunteer vegetative plantings

Project Status:
- Sand pumping complete: Feb 2014
- Sand fence re-built: October 2015
- Dunes forming adjacent to sand fencing
Project Features: Total Benefit 617 acres (2 cells)
219 acres (Miami Corp);
398 acres (Cameron Prairie)

Construction Cost: $ 8.2M Base Bid
Potential Expansion/Nourishment

Project Status:
- Construction started: September 2017
- Dredging started February 2018
- North Cell Complete (Approx. 998,758 CY)
- Currently Pumping Into South Cell
- Construction completion: December 2018 (450 days)
Oyster Bayou Marsh Creation Project (CS-59)
Oyster Bayou Marsh Creation Project (CS-59)
Project Features

► 950 acres of marsh creation
► 7,200 feet of terrace construction

Construction Cost: $ 22.1 Million

Project Status

► Construction start: December 2016
► Marsh Creation completion: September 2017
► 54,857 linear feet of earthen containment dikes
► Waterline along Hwy 82 relocated/Road crossing
► Dredged 4.31 Million Cubic Yards
Cameron Creole Freshwater Introduction (CS-49)
Project Features:

- Placement of sheet pile structure in Monsanto canal (8 - 5’ square openings)
- 8,000 feet of GIWW rock shoreline protection
- 120,000 linear feet of terracing

Construction Cost: $16 million (estimated)

Project Status:

- Project approved for Phase 2 construction at December 2017 CWPPRA Technical Committee Meeting
- NRCS is finalizing plans/specifications/permitting
- Expected Bid Date early 2019
Calcasieu River Salinity Control (CS-65)

Details on this project coming up later in this meeting.
Cameron Meadows Marsh Creation (CS-66)
Project Features:
- 400 acres of marsh creation
- 12,150 linear feet of terraces (27 terraces)
- Borrow area – 5 miles south of the project area

Fully Funded Project Cost: $35.4 million

Project Status:
- Construction Funding approved at January 2017
- CWPPRA Task Force Meeting
- Securing land rights now
- Minor adjustments to plans
- Plan to be in construction in 2019
No Name Bayou Marsh Creation (CS-78)
Project Features

- Benefit 533 acres of marsh
- 3.5 million cubic yards of material
- Borrow site still to be determined (possibly Calcasieu Lake)

Construction Cost: $24 million (original estimate)

Project Status

- 30% Design meeting: TBD
- 95% Design meeting: TBD
- Request construction funds: TBD
Rabbit Island Restoration Project

GULF OF MEXICO

GRAND LAKE

CALCASIEU LAKE

RABBIT ISLAND RESTORATION PROJECT (CS-80)
Project Vision
Re-establish eroded marsh and nourish existing marsh to benefit bird habitat

Project Features
Placement of fill within the interior of the island, as well as the creation of dunes and rock dikes to maintain the integrity of the 200 acres of bird habitat

Project Status
- Contractor selected for E&D: (Royal Engineers)
- Conceptual alternatives being considered
- Permit application submitted August 2018
- Project is still awaiting funding authorization (Deepwater Horizon Oil Spill–NRDA) $24 Million (construction)
Project Features:
- Creation of 900 acres of marsh, 29 acres nourishment
- Marsh to be created over 2 USACE maintenance dredging events of Calcasieu River

Construction Cost: $24 million (estimated)

Project Status:
- Project approved for Phase 1 at December 2017
- CWPPPRA Technical Committee Meeting: $3.8 Million
- Expected Bid Date: TBD
MERMENTAU BASIN

Historical Persistent Land Loss
1932-2010

Grand Lake

White Lake

Gulf of Mexico
Freshwater Introduction South of HWY 82 (ME-16)
Freshwater Introduction South of HWY 82 (ME-16)
Project Goals:
Reduce salinities south of Hwy 82 by increasing freshwater

Project Features: Four pipe barrel structure locations, (48 inch diameter), (3 or 4 barrel)
26,000 LF of earthen terraces
101,970 CY of spray dredging
39,432 CY of bucket dredging

Construction Cost: $3.94 million

Project Status: Completed December 2006
Rockefeller Refuge Shoreline Stabilization (ME-18)

REEF BREAKWATER WITH LIGHTWEIGHT AGGREGATE CORE
Project Features
Construct lightweight aggregate core breakwaters along shoreline for 3 miles, approximately 150’ offshore on a contour of -3.5’

Construction Cost: $18.9 million (Potential Expansion)

Project Status
- NTP issued November 1, 2017
- Additional dollars made available from other agencies
- Construction completion: June 24, 2019 (600 calendar days)
Grand Lake Shoreline Protection (Tebo Point) ME-21

GRAND LAKE SHORELINE PROTECTION (TEBO POINT) (ME-21)
Accomplished in two increments

CIAP portion (7.2 miles) completed in 2010
CWPPRA portion (1.1 miles) completed in 2017 (Tebo Point)
**Project Goals:**
Protect SW shoreline of Grand Lake from wave erosion

**Project Features:** 8.3 miles of foreshore rock dike

**Combined Construction Cost:** $14.6 million

- **CIAP Portion:** $10.6 million (7.2 miles) *completed Feb. 2010*
- **CWPPRA Portion:** $4.0 million (1.1 miles) *completed May 2017*
GULF OF MEXICO

WHITE LAKE

GRAND LAKE

CALCASIEU LAKE

SOUTH GRAND CHENIER MARSH CREATION PROJECT (ME-20)
South Grand Chenier Marsh Creation (ME-20)

Gulf of Mexico

Borrow Site

Rockefeller Wildlife Refuge

Second Lake
Project Features
Benefit 430 acres of marsh by building two cells of 200+ acres each with sediment from the Gulf of Mexico

Anticipated Construction Cost: $17 million (estimated)

Project Status:
- Out to bid twice: April 6, 2017 and August 14, 2018
- Each time bids came in over estimate: $8.1 million & $9.9 million
- Project team rejected all bids and is regrouping on project design and will conduct “Industry Day” with dredgers
LOOKING FORWARD: $344.6 Million CURRENT/FUTURE PROJECTS

SW Louisiana Region

WORK UNDERWAY
2018

$49.2 million

WORK PLANNED
2019 and BEYOND
Proposed Master Plan Funding $50 Billion

FUNDING BY PROJECT TYPE

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Funding (Billions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barrier Island Restoration</td>
<td>$1.5B</td>
</tr>
<tr>
<td>Hydrologic Restoration</td>
<td>$0.4B</td>
</tr>
<tr>
<td>Marsh Creation</td>
<td>$17.8B</td>
</tr>
<tr>
<td>Ridge Restoration</td>
<td>$0.1B</td>
</tr>
<tr>
<td>Sediment Diversion</td>
<td>$5.1B</td>
</tr>
<tr>
<td>Shoreline Protection</td>
<td>$0.9B</td>
</tr>
<tr>
<td>Structural Nonstructural</td>
<td>$19.0B</td>
</tr>
<tr>
<td>Risk Reduction</td>
<td>$6.0B</td>
</tr>
</tbody>
</table>

Total Funding: $50 Billion

Restoration $25 Billion

Risk Reduction $25 Billion
CONNECT WITH US!

SUBSCRIBE