



Coastal Protection and Restoration Authority of Louisiana

Office of Coastal Protection and Restoration

2015 Annual Inspection Report

Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration

State Project Number BA-35
Priority Project List 11

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Plaquemines Parrish

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I. Introduction

The Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) project area is located between Pass Chaland and Grand Bayou Pass and separates Bay Joe Wise from the Gulf of Mexico. Both project areas are located in Plaquemines Parish.

II. Project Description and History

The Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) consists of nourishing and rebuilding the shoreline with sediment to create a beach berm, dune, and a back barrier marsh platform. The wetlands, dune, and swale habitats within the project area have undergone substantial loss due to oil and gas activities, subsidence, sea-level rise, and marine and wind induced shoreline erosion. Marine processes acting on the abandoned deltaic headlands and barrier islands rework and redistribute the previously deposited sediment. In these areas along the shoreline, there are several locations where the shoreline has receded and decreased to a critical width that is susceptible to breaching during storms.

Construction of the Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) was completed in July, 2009.

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, the OCPR shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. A summary of past operation and maintenance projects completed since completion of the project can be found in Section II.

An inspection of the Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) was held on May 28, 2015, by members of NOAA and CPRA. Photographs of this inspection are included in Appendix B of this report.

IV. Inspection Results

Sand Fence

Approximately 14,360 linear feet of sand fencing was installed during project construction. This structure is performing as designed based on visual inspection.

Containment Dike

Due to poor access this feature was not inspected at this time. However, based on recent aerial photography it appears this structure has almost completely degraded.

Settlement Plates

The settlement plates were not inspected on this site visit.

Vegetative Plantings

The vegetative plantings are performing well. The natural vegetation has also filled in the gaps nicely.

V. Conclusions

The project is performing as designed. Based on visual inspections and aerial imagery the shoreline is retreating. The majority of this was caused by the landfall of Hurricane Isaac in 2012. The sand fencing and vegetation is still evident on the island and still performing the job of sediment retainage. This shoreline retreat will continue to be observed visually and through regular surveys. If necessary more sand fencing or vegetative plantings will be used to maximize sediment retainage through the 20 year life of the project.

VI. Recommendations

It is recommended not to perform any maintenance work at this time.

Immediate Repairs

- None at this time.

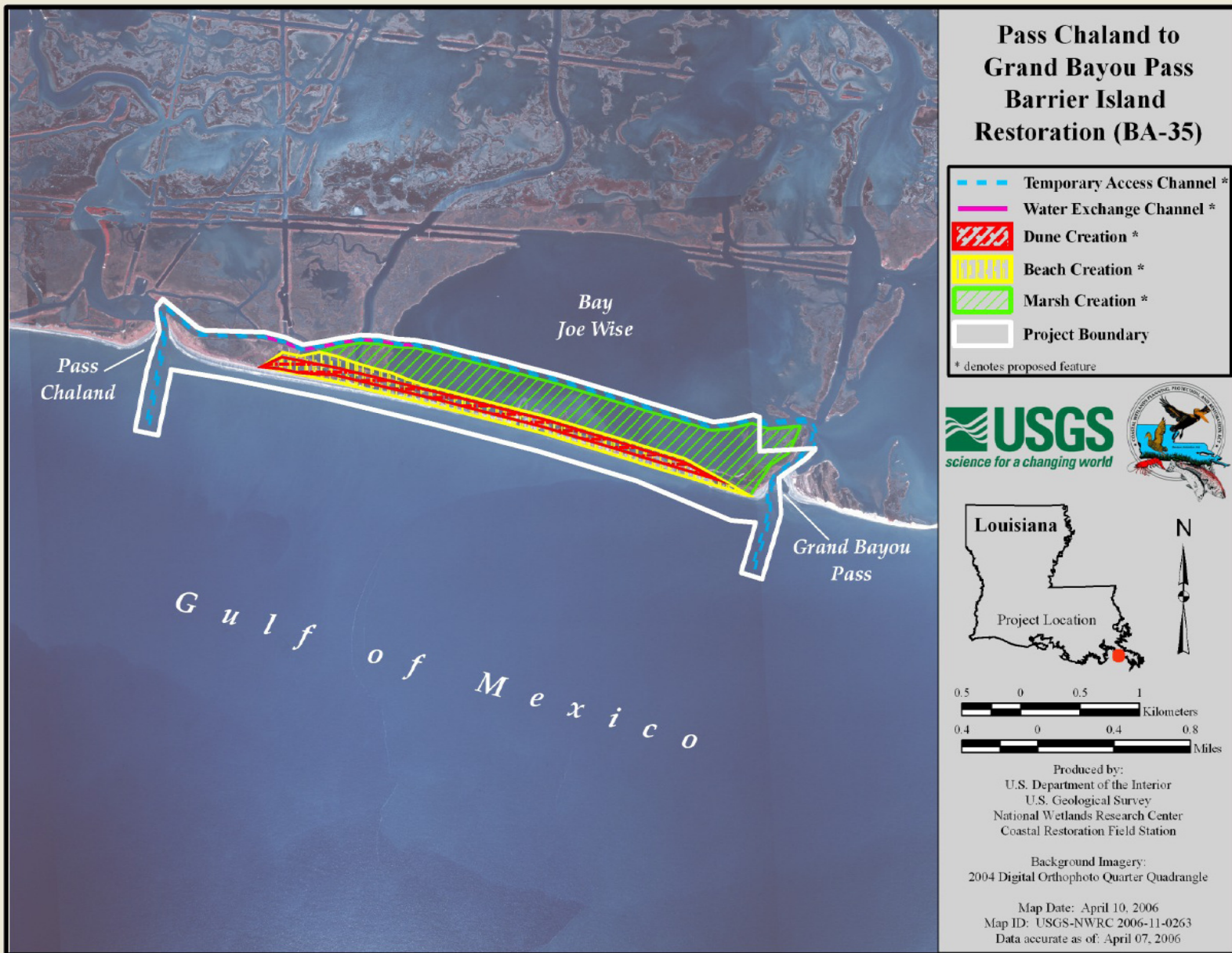
Programmed Maintenance

- No Programmed Maintenance is recommended at this time.

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Appendix A

Project Features Map



Appendix B

Photographs



Photo #1 – West End Beach Looking East.



Photo #2 – West End Shoreline Looking East.



Photo #3 – Tidal Creek on Beach, Looking North.

Appendix C

Three Year Budget Projection

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Federal Sponsor: NMFS
Construction Completed : June 11, 2009
PPL #11

	Year 0	Year - 1	Year -2	Year -3	Year -4	Year -5	Year -6	Year -7	Year -8	Year -9	Year -10	Year -11	Year -12	Year -13	Year -14	Year -15	Year -16	Year - 17	Year -18	Year -19	Project Life	Currently
Current Approved O&M Budget	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Budget	Funded
State O&M	\$854,975	\$535,594	\$1,010,438	\$4,561	\$4,656	\$4,754	\$4,854	\$224,790	\$5,060	\$5,166	\$5,275	\$5,386	\$5,499	\$5,614	\$259,991	\$5,852	\$5,975	\$6,101	\$6,229	\$6,360	\$2,967,130	\$2,410,224
Corps Admin	\$2,356	\$819	\$836	\$853	\$871	\$890	\$908	\$927	\$947	\$967	\$987	\$1,008	\$1,029	\$1,050	\$1,072	\$1,095	\$1,118	\$1,141	\$0	\$0	\$18,874	\$5,735
Federal S&A	\$17,365	\$11,548	\$19,166	\$1,169	\$4,277	\$1,219	\$1,245	\$4,178	\$1,297	\$4,487	\$1,352	\$1,381	\$1,410	\$1,440	\$4,832	\$1,501	\$1,532	\$1,564	\$1,597	\$5,768	\$88,328	\$53,525
Total																					\$3,074,332	\$2,469,484

Projected O&M Expenditures																					Remaining Project Life	Current 3 year Request
Maintenance Inspection			\$4,208	\$4,296	\$4,380	\$4,468	\$4,556	\$4,648	\$4,742	\$4,837	\$4,934	\$5,032	\$5,133	\$5,236	\$5,340	\$5,447	\$5,556	\$5,667	\$5,780	\$6,257	\$90,516	\$13,946
General Maintenance																					\$0	\$0
Structure Operations																					\$0	\$0
Corps Admin			\$836	\$853	\$871	\$890	\$908	\$927	\$947	\$967	\$987	\$1,008	\$1,029	\$1,050	\$1,072	\$1,095	\$1,118	\$1,141	\$0	\$0	\$15,699	\$2,782
Federal S&A			\$19,166	\$1,169	\$4,277	\$1,219	\$1,245	\$4,178	\$1,297	\$4,487	\$1,352	\$1,381	\$1,410	\$1,440	\$4,832	\$1,501	\$1,532	\$1,564	\$1,597	\$5,768	\$59,415	\$6,720
State S&A			\$195,959					\$75,846							\$87,138						\$358,943	\$75,846
Construction:			\$481,790					\$161,230							\$161,230						\$804,250	\$161,230
Professional Services:																					\$0	\$0
E&D																					\$0	\$0
Surveying			\$4,218																		\$4,218	\$0
Construction Administration																					\$0	\$0
Inspection																					\$0	\$0
Total	\$0	\$0	\$706,177	\$6,318	\$9,528	\$6,577	\$6,709	\$246,829	\$6,986	\$10,291	\$7,273	\$7,421	\$7,572	\$7,726	\$259,612	\$8,043	\$8,206	\$8,372	\$7,377	\$12,025	\$1,333,041	\$260,524

O&M Expenditures from COE Report	\$470,305	Current O&M Budget less COE Admin	\$2,463,749	Current Project Life Budget less COE Admin	\$3,055,458
State O&M Expenditures not submitted for in-kind credit	\$0	Remaining Available O&M Budget	\$1,993,444	Total Projected Project Life Budget	\$1,803,346
Total Estimated O&M Expenditures (as of August 2010)	\$470,305	Incremental Funding Request Amount FY16-FY18	-\$1,732,920	Project Life Budget Request Amount	-\$1,252,112

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Appendix D

Field Inspection Form

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 State Project No. BA-35

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No./Name: **(BA-35) Pass Chaland to Grand Bayou Pass Restoration**

Date of Inspection: 5/28/2015 Time: N/A

Structure No. n/a

Inspector(s): CPRA and NOAA

Structure Description: n/a

Water Level N/A

Type of Inspection: Annual

Weather Conditions: Clear and Breezy

Item	Condition	Physical Damage	Corrosion	Photo #	Observations and Remarks
Sand Fencing	Poor				No sign of any fencing remaining.
Containment Dike	Poor				No access, did not inspect.
Settlement Plates	Fair				Did not inspect on this visit.
Plantings	Good			1, 2, 3	Appear to be doing well.