



**State of Louisiana  
Department of Natural Resources  
Coastal Engineering Division**

**2005/2006 Annual Inspection  
Report**

for

**PERRY RIDGE SHORELINE  
PROTECTION PROJECT (CS-24)**

State Project Number CS-24  
Priority Project List 4

October 6, 2005  
Calcasieu Parish

Prepared by:

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## **I. Introduction**

The Perry Ridge Shoreline Protection Project (CS-24) is located in the Calcasieu-Sabine Basin on the northern bank of the Gulf Intracoastal Waterway in Calcasieu Parish. The 1,203 acre project area extends from the Perry Ridge on the northern shore of the GIWW eastward to the Vinton Drainage Canal. (See Appendix A).

The Perry Ridge Shoreline Project (CS-24) was authorized by Section 303(a) of Title III Public Law 101-646, the Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) enacted on November 29, 1990 as amended and approved on the fourth Priority Project List. The Perry Ridge Shoreline Project has a twenty –year (20 year) economic life, which began in February 1999.

## **II. Project Description and History**

The Perry Ridge Shore Protection project provides features to protect 1,203 ac (481 ha) of vegetated shoreline along the Gulf Intracoastal Waterway (GIWW), which in turn will benefit 5,945 ac (2,378 ha) of predominantly intermediate marsh located north of the shoreline. The project is on the north bank of the GIWW from Perry Ridge to the Vinton Drainage Canal in Calcasieu Parish, Louisiana. The project area is bounded on the north by an arbitrary line connecting the north tip of Big Island and the Gray Canal, on the south by the GIWW, on the east by the Vinton Drainage Canal and the Gray Canal, and on the west by Perry Ridge and Big Island. Approximately 12,000 linear ft (3.7 km) of free-standing rock dike was constructed along the north bank of the GIWW from Perry Ridge to the Vinton Drainage Canal.

The Project has twenty-year (20 year) economic life, which began in February 1999.

The principal project features include:

- Site 1 - Foreshore Rock Dike (approximately 12,000 linear feet)

## **III. Inspection Purpose and Procedures**

The purpose of the annual inspection of the Perry Ridge Shoreline Protection Project (CS-24) is to evaluate the constructed project features and 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, LDNR 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, 2002). The annual inspection report also contains a summary of maintenance projects which were completed since completion of constructed project features 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 Perry Ridge Shoreline Project(CS-24) are outlined in Section IV.

In 2003, the CWPPRA Task Force determined, due to the fact that LDNR was responsible for the operation and maintenance phase of the vast majority of CWPPRA projects, that LDNR would be the responsible party for all Post Storm/Hurricane Assessments. After Hurricanes Katrina and Rita, every project appeared to have been impacted by the storms; therefore, LDNR determined that all projects should be assessed for damages (Broussard, 2006). With concurrence from the federal sponsor, LDNR has decided to use the information obtained during this post hurricane assessment in this Annual Maintenance Inspection.

An annual O & M inspection of the Perry Ridge Shoreline Project (CS-24) was held on October 6, 2005 under sunny skies and mild temperatures. In attendance were Mel Guidry, Stan Aucoin, Mark Mouldous, and Ricky Brouillette of LDNR, along with Cindy Steyer representing NRCS, and Joy Merino representing NMFS (for other inspections). The field inspection included a complete visual inspection on the entire project site. Staff gauge readings and existing benchmarks were used to determine approximate water elevation and existing elevation of the foreshore rock dike and earthen terraces. Photographs were taken at each project feature (see Appendix B) and field inspection notes were compiled to record measurement and deficiencies (Appendix D).

#### **IV. Summary of Past Operation and Maintenance Projects**

**General Maintenance:** There has been no required maintenance as of yet on this project.

**2005 Structure Operations:** There are no active operations associated with this project.

#### **V. Inspection Results**

##### **Site 1—Foreshore rock dike**

The dike is in good condition and appears to be in the same condition as to what existed prior to the storm and did not sustain any discernable damage from the storm. No maintenance is recommended at this time. (Photos: Appendix B, Photos 1 & 2)

#### **VI. Conclusions and Recommendations**

The Perry Ridge Shoreline Protection Project is in good condition and functioning as designed and did not sustain any major damage from Hurricane RITA.

**Appendix A**  
**Project Features Map**



# Perry Ridge Shore Protection (CS-24)

- ⊕ Fish Dip
- Rock Dike
- Project Boundary



**Appendix B**  
**Photographs**





Photo 1, Typical rock dike.



Photo 2, Rock dike tie-in.



## **Appendix C**

### **Three Year Budget Projection**

**PERRY RIDGE SHORELINE PROTECTION/ CS-24 /PPL 4**  
**Three-Year Operations & Maintenance Budgets 07/01/2005 - 06/30/08**

<u>Project Manager</u> Pat Landry	<u>O &amp; M Manager</u> Mel Guidry	<u>Federal Sponsor</u> NRCS	<u>Prepared By</u> Mel Guidry
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	2005/2006	2006/2007	2007/2008
<i>Maintenance Inspection</i>	\$ 4,955.00	\$ 5,250.00	\$ 5,407.00
<i>Structure Operation</i>			
<i>Administration</i>		\$ -	\$ -
<i>Maintenance/Rehabilitation</i>			

05/06 Description:

<i>E&amp;D</i>	
<i>Construction</i>	
<i>Construction Oversight</i>	
<i>Sub Total - Maint. And Rehab.</i>	\$ -

06/07 Description:

<i>E&amp;D</i>	\$ -
<i>Construction</i>	\$ -
<i>Construction Oversight</i>	\$ -
<i>Sub Total - Maint. And Rehab.</i>	\$ -

07/08 Description:

<i>E&amp;D</i>	\$ -
<i>Construction</i>	\$ -
<i>Construction Oversight</i>	\$ -
<i>Sub Total - Maint. And Rehab.</i>	\$ -

	2005/2006	2006/2007	2007/2008
<b><u>Total O&amp;M Budgets</u></b>	<b>\$ 4,955.00</b>	<b>\$ 5,250.00</b>	<b>\$ 5,407.00</b>

<b><u>O &amp; M Budget (3 yr Total)</u></b>	<b>\$ 15,612.00</b>
<b><u>Existing O &amp; M Budget</u></b>	<b>\$ 398,883.00</b>
<b><u>Remaining O &amp; M Budget (Projected)</u></b>	<b>\$ 383,271.00</b>

## **Appendix D**

### **Field Inspection Form**

**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: CS-24 Perry Ridge Shoreline Protection

Date of Inspection: October 6, 2005 Time:

Structure No.

Inspector(s): Stan Aucoin, Herb Juneau, Mark Mouledous  
 Ricky Brouillette(LDNR); Cindy Steyer (NRCS), Joy Merino (NMFS)  
 Water Level +2.6

Structure Description: , Rock Dike

Type of Inspection: Annual

Weather Conditions: Clear & mild

Item	Condition	Physical Damage	Corrosion	Photo #	Observations and Remarks
Steel Bulkhead / Caps	N/A				
Steel Grating	N/A				
Stop Logs	N/A				
Hardware	N/A				
Timber Piles	N/A				
Timber Wales	N/A				
Galv. Pile Caps	N/A				
Cables	N/A				
Signage /Supports	N/A				
Rip Rap (fill) (foreshore dike)	Good			1 & 2	
Earthen Embankment	N/A				

- What are the conditions of the existing levees?
- Are there any noticeable breaches?
- Settlement of rock plugs and rock weirs?
- Position of stoplogs at the time of the inspection?
- Are there any signs of vandalism?

## **Appendix E**

### **Locations to be Monitored**