



Coastal Protection and  
Restoration Authority of Louisiana

## Coastal Protection and Restoration Authority of Louisiana

### Office of Coastal Protection and Restoration

# 2008/2009 Annual Inspection Report

for

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

State Project Number CS-24  
Priority Project List 4

October 2, 2008  
Calcasieu Parish

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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 Shoreline 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, 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, 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 OCPR was responsible for the operation and maintenance phase of the vast majority of CWPPRA projects, that OCPR would be the responsible party for all Post Storm/Hurricane Assessments. After Hurricane Ike, every project appeared to have been impacted by the storms; therefore, OCPR determined that all projects should be assessed for damages (Broussard, 2006). With concurrence from the federal sponsor, OCPR 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 2, 2008 under sunny skies and mild temperatures. In attendance were Mel Guidry, Stan Aucoin, and Tommy McGinnis of OCPR, along with John Foret (NOAA) and Bill Hicks (USACE) for other inspections. The inspection began at 11:00 am at the eastern end of the project.

The field inspection included a complete visual inspection on the entire project site. Staff gauge readings and existing benchmarks were not available to determine approximate water level and existing elevation of the foreshore rock dike. 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:** Below is a summary of completed maintenance projects and operation tasks performed since February 1999, the construction completion date of the Perry Ridge Shoreline Protection Project (CS-24).

No maintenance has been required on this project to date.

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

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

##### **Site 1—Foreshore rock dike**

The dike is in excellent condition with some very small areas being below constructed elevation. Visible signs of accretion are occurring behind the rock dike in some areas. No maintenance is recommended at this time. Water salinity was 11 ppt in the GIWW near the western end of the rock dike. (Photos: Appendix B, Photo 1)

## **VI. Conclusions and Recommendations**

The Perry Ridge Shoreline Protection Project is in good condition and functioning as designed and does not appear to have suffered any damages from Hurricane Ike.

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



## **Appendix B**

### **Photographs**





**Photo No.1**, Typical rock dike

## **Appendix C**

### **Three Year Budget Projection**

Annual Inspection Report  
 PERRY RIDGE SHORELINE PROTECTION PROJECT  
 State Project No. CS-24

**PERRY RIDGE SHORELINE PROTECTION/ CS-24 /PPL 4**  
**Three-Year Operations & Maintenance Budgets 07/01/2009 - 06/30/2012**

|                                      |  |                                |                                  |
|--------------------------------------|--|--------------------------------|----------------------------------|
| <u>Project Manager</u><br>Pat Landry | <u>O &amp; M Manager</u><br>Mel Guidry | <u>Federal Sponsor</u><br>NRCS | <u>Prepared By</u><br>Mel Guidry |
|--------------------------------------|--|--------------------------------|----------------------------------|

|                                   | 2009/2010   | 2010/2011   | 2011/2012   |
|-----------------------------------|-------------|-------------|-------------|
| <b>Maintenance Inspection</b>     | \$ 5,737.00 | \$ 5,909.00 | \$ 6,086.00 |
| <b>Structure Operation</b>        |             |             |             |
| <b>Administration</b>             |             | \$ -        | \$ -        |
| <b>Maintenance/Rehabilitation</b> |             |             |             |

09/10 Description:

|                               |      |
|-------------------------------|------|
| E&D                           |      |
| Construction                  |      |
| Construction Oversight        |      |
| Sub Total - Maint. And Rehab. | \$ - |

10/11 Description

|                               |      |
|-------------------------------|------|
| E&D                           | \$ - |
| Construction                  | \$ - |
| Construction Oversight        | \$ - |
| Sub Total - Maint. And Rehab. | \$ - |

11/12 Description:

|                               |      |
|-------------------------------|------|
| E&D                           | \$ - |
| Construction                  | \$ - |
| Construction Oversight        | \$ - |
| Sub Total - Maint. And Rehab. | \$ - |

|                              | 2009/2010          | 2010/2011          | 2011/2012          |
|------------------------------|--------------------|--------------------|--------------------|
| <b>Total O&amp;M Budgets</b> | <b>\$ 5,737.00</b> | <b>\$ 5,909.00</b> | <b>\$ 6,086.00</b> |

|   |                      |
|---|----------------------|
| <b>O &amp; M Budget (3 yr Total)</b>          | <b>\$ 17,732.00</b>  |
| <b>Unexpended O &amp; M Budget</b>            | <b>\$ 389,111.00</b> |
| <b>Remaining O &amp; M Budget (Projected)</b> | <b>\$ 371,379.00</b> |

## **Appendix D**

### **Field Inspection Form**

Annual Inspection Report  
 PERRY RIDGE SHORELINE PROTECTION PROJECT  
 State Project No. CS-24

MAINTENANCE INSPECTION REPORT CHECK SHEET

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

Date of Inspection: October 2, 2008 Time: 11:00 am

Structure No.

Inspector(s): Stan Aucoin, Mel Guidry & Tommy McGinnis (OCPR)  
 John Foret (NOAA), Bill Hicks (COE)

Structure Description: Rock Dike

Water Level

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       | Accretion occurring behind rock dike. |
| 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**