



**Coastal Protection and Restoration  
Authority of Louisiana**

**Office of Coastal Protection and  
Restoration**

**2008/2009 Annual Inspection  
Report**

for

**COTE BLANCHE HYDROLOGIC  
RESTORATION PROJECT  
(TV-04)**

State Project Number TV-04  
Priority Project List 3

September 30, 2008  
St. Mary Parish

Prepared by:

Stan Aucoin, Engineering Tech.  
CPRA/ Office of Coastal Protection and Restoration  
Lafayette Field Office  
635 Cajundome Blvd.  
Lafayette, LA 70596

## **Table of Contents**

|   |   |
|---|---|
| I. Introduction.....  | 1 |
| II. Inspection Purpose and Procedures .....                 | 1 |
| III. Project Description and History.....                   | 1 |
| IV. Summary of Past Operation and Maintenance Projects..... | 3 |
| V. Inspection Results .....                                 | 4 |
| VI Conclusions and Recommendations .....                    | 5 |

## **Appendices**

|            |                                   |
|------------|-----------------------------------|
| Appendix A | Project Features Map              |
| Appendix B | Photographs                       |
| Appendix C | Three Year Budget Projections     |
| Appendix D | Field Inspection Notes            |
| Appendix E | Map showing areas to be monitored |

## **I. Introduction**

The Cote Blanche Hydrologic Restoration Project is a 31,637 ac (12,655 ha) freshwater marsh located in St. Mary Parish. The project boundaries include the Gulf Intracoastal Waterway to the north, Highway 317 to the east, East Cote Blanche Bay to the south and West Cote Blanche Bay to the west. (See Appendix A).

The Cote Blanche Hydrologic Restoration Project 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 third Priority Project List. The Cote Blanche Hydrologic Restoration Project has a twenty year (20 year) economic life, which began in January 1999.

## **II. Inspection Purpose and Procedures**

The purpose of the annual inspection of the Cote Blanche Hydrologic Restoration Project (TV-04) 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, 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, 2003). The annual inspection report also contains a summary of maintenance projects, if any, 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.

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 inspection of the Cote Blanche Hydrologic Restoration Project (TV-04) was held on September 30, 2008 under mostly cloudy skies and mild temperatures. In attendance were Stan Aucoin and Melvin Guidry of OCPR; Dale Garber of NRCS; and John Foret of NMFS (for other inspections).

The field inspection included a complete visual inspection of all features. Staff gauge readings, when available, were used to determine approximate elevations of water, rock weirs, earthen embankments, steel bulkhead structures and other project features. Photographs were taken at each project feature (see Appendix B) and Field Inspection notes were completed in the field to record measurements and deficiencies (see Appendix D).

### **III. Project Description and History**

The Cote Blanche marsh has experienced increased freshwater introduction from the GIWW and westward currents from the Atchafalaya delta (DeLaune et al. 1987). Historical information documents the alterations in marsh types resulting from these hydrologic changes. Marsh type changes have been documented by 1982 USFWS Ecological Atlas Maps and Vegetative Type Maps of the Louisiana Coastal Marshes (Chabreck et al. 1968; Chabreck and Linscombe 1978, 1988). Using aerial photography, planimeter data show the percentages of each marsh type (USDA 1993). In 1949, the area was almost entirely brackish (93%) with a narrow band of saline (7%) associations along the southwestern shoreline. By 1968, the area was divided into intermediate (39%), fresh (13%), and brackish (48%) associations. In 1978, the area was predominantly fresh (63%) and intermediate (37%) associations, where as by 1988 the entire area was identified as fresh marsh.

Construction of the GIWW and numerous oilfield canals have been the predominant causes of hydrologic change for the project area. Major canals such as the Humble and Humble-F canals were dredged between 1937 and 1958 and the British-American Canal and extensions from the Humble Canal were dredged between 1958 and 1974. Major impacts on the area have resulted from increased tidal action and rapid water exchange between the interior marsh and East and West Cote Blanche bays through these oilfield canals and the GIWW. Rapid water exchange and tidal fluctuations have caused breaches in spoil banks of interior canals that have lead to erosion and conversion of broken marsh to open water. Broken marsh began to be detected in the 1952 aerial photography. An area west of the British-American Canal showed some marsh deterioration prior to the dredging of the canal, however, the dredging created more marsh loss in the area. Utilizing historical aerial photography, from 1957 to 1990, the land loss rate for the area has been estimated to average 73 ac/year (29 ha/yr) (Britsch and Kemp 1990).

Shoreline erosion on the southern project boundary resulting from wave energy and breaches in adjacent canals was evident from aerial photography as early as 1952. Shoreline erosion rates averaged 10–15 ft/yr (3.0-4.6 m/yr) according to 1952, 1957, 1971, 1979, 1983, and 1990 aerial photography and surveys completed in 1975 by Miller Engineers & Associates. These measurements show an increase in shoreline erosion after 1978 for the Teche/Vermilion basin. Erosion rates averaged 10–12 ft/yr (3.0-3.7 m/yr) from 1941 to 1978 and increased to an average of 20–25 ft/yr (6.1-7.6 m/yr) from 1978 to 1983.

The Cote Blanche Hydrologic Restoration Project contains measures to improve hydrologic conditions in 31,637 ac (12,803 ha) of fresh marsh through low-level weirs placed at major water exchange avenues and through shoreline protection on the southern boundary of the project area.

The principal project features include:

1. Low-level weir at Mud Bayou

2. Low-level weir at the Humble-F Canal
3. Low-level weir on Bayou Long
4. Low-level weir on Bayou Carlin
5. Low-level weir at the Humble Canal
6. Low-level weir at Jackson Bayou
7. Low-level weir at the British-American Canal.
8. Shoreline protection (~ 3,500 LF of PVC wall) along the southern project boundary.
9. Approximately 3,500 Lf of foreshore rock dike along the northern bank of Cote Blanche Bay just to the west of Humble Canal.

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

**General Maintenance:** Below is a summary of completed maintenance projects and operation tasks performed since January 1999, the construction completion date of the Cote Blanche Hydrologic Restoration Project.

**2001 Maintenance Project – LDNR:** This maintenance project included the placement of 12”-14” of paving stone spread out around the wingwalls of the weirs at Mud Bayou, Humble F Canal, Bayou Long, Humble Canal, Jackson Bayou and British American Canal to “harden” the area while still allowing flow in extreme tidal events to pass around the structure without washing away the existing bank. Also included was the replacement of approximately 100 pile caps along the PVC wall, the replacement of day markers at Humble F Canal with signs mounted to the weir instead of on driven pylons, and the construction of revetment/foreshore dike along the west bank of the British American Canal from the weir to the canals convergence with Cote Blanche Bay. The costs associated with the engineering, design and construction of the Cote Blanche Maintenance Project are as follows:

|   |                  |
|---|------------------|
| Construction-----                             | \$287,919.80     |
| E & D, construction oversight, as-builts----- | \$ 31,690.79     |
| <br>Project Total-----                        | <br>\$319,610.59 |

**2005 Maintenance Project – LDNR:** This maintenance project included rock repair at six of the structures, replacement of warning signs and channel markers. This project was a result of damages that occurred during Hurricane LILI in 2002.

|                                   |              |
|-----------------------------------|--------------|
| Project Cost                      | \$84,500.00* |
| *This cost was reimbursed by FEMA |              |

**Navigational Light Maintenance – LDNR:** Automatic Power, Inc. performed the following navigational light maintenance:

|                        |          |
|------------------------|----------|
| Humble Canal (1/29/07) | \$525.00 |
|------------------------|----------|

|                         |            |
|-------------------------|------------|
| Humble Canal (2/12/07)  | \$2,320.00 |
| Humble Canal (4/30/07)  | \$595.00   |
| Humble Canal (8/13/07)  | \$1,032.00 |
| Humble Canal (11/6/07)  | \$544.20   |
| Humble Canal (2/25/08)  | \$539.00   |
| Humble Canal (6/4/08)   | \$574.00   |
| Humble Canal (8/27/08)  | \$553.00   |
| Humble Canal (12/18/08) | \$699.00   |

**2007 School Bus Bayou Maintenance – LDNR:** This maintenance event consisted of the installation of approximately 3,500 linear feet of foreshore rock dike along the northern shoreline of Cote Blanche Bay just west of the Humble Canal and in the vicinity of School Bus Bayou. Also, two low level rock weirs were installed on the eastern and western side of Humble Canal where School Bus Bayou crosses. Associated costs are as follows:

|                      |                |
|----------------------|----------------|
| Construction         | \$1,500,000.00 |
| E&D/Const. oversight | \$63,328.45    |
| Total                | \$1,563,328.45 |

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

## V. Inspection Results

### **Site 1—Mud Bayou**

The Mud Bayou structure appears to be holding up fairly well. The coating on the sheet piles is peeling. The steel is beginning to show signs of rust and will need to be monitored. Signage is ok. (Photos: Appendix B, Photo 1).

### **Site 2—Humble F Canal**

The warning sign, day-marker, and railing on the north side of the structure are gone and will need to be replaced. Sheet piles and rocks on the end of the structure are stable and functioning as intended. The coating on the sheet piles is rusting on this structure and will be monitored as well. The south arrow sign is missing. (Photos: Appendix B, Photo 2).

### **Site 3—Bayou Long**

The Bayou Long structure and signage are stable. The coating on the sheet piles is rusting on this structure and will be monitored as well. Staff gauges are gone at this site. (Photos: Appendix B, Photo 3)

### **Site 4—Bayou Carlin**

The structure is in excellent post-construction condition. The canal, between Humble Canal and the structure is beginning to silt in. This may or may not be a result of the hurricanes. It shouldn't, however, significantly affect the function of the structure. The Bayou Carlin structure and signage are stable. The coating on the sheet piles is rusting on this structure and will be monitored as well. (Photos: Appendix B, Photo 4)

#### **Site 5—Humble Canal**

There is some minor rail damage on the structure. The rocks placed on the ends of the structure, as well as the signage are stable and suffered no damage. On the southern end of the rock on the eastern location closure, some erosion was noticed and will be monitored. The NW nav-aid sign is missing but this occurred before the storm. The shoreline at the south end of the rock riprap dike has experienced some erosion and the marsh area remaining is narrow and now subject to being breached allowing water to flow around the weir. Budget limitations will not allow this area to be addressed; however, Miami Corporation has proposed to address this area with mitigation dollars in the future. In the meantime, it will continue to be monitored. One of the staff gauges needs to be replaced. (Photos: Appendix B, Photos 5, 8).

#### **School Bus Bayou**

The dike has settled to an approximate average elevation of +2.0NAVD and survived the hurricane intact. Spoil placed behind the dike is nearly all gone. Rock placed across School Bus Bayou on the west side of Humble Canal is gone from the channel but the rock on the bank is still present and stable. This condition will be monitored. One warning sign on the foreshore dike was leaning and may need to be straightened. (Photos: Appendix B, Photos 6-7, 9-10).

#### **Site 6—Jackson Bayou**

The Jackson Bayou structure and signage are stable. The coating on the sheet piles is rusting on this structure and will be monitored as well. The west warning sign is gone and will need to be replaced. (Photos: Appendix B, Photo 11).

#### **Site 7—British American Canal**

The western (green) navigational aid marker is gone and will need to be replaced. The coating on the sheet piles is rusting on this structure and will be monitored as well. One of the directional arrows is missing and will be replaced. (Photos: Appendix B, Photos 12-13).

#### **Site 8—PVC Wall**

The PVC shoreline protection wall and signage are stable. Several pile caps are missing but no damage to the timber piles was noticed. Previous attempts to replace these pile caps have been unsuccessful. The piles will be monitored and should the need arise, will be painted or coated for protection. Sheet piles in several locations are missing. Replacement of these sheet piles may not be possible due to the rock at the base. There aren't enough missing to cause any problems as of yet. (Photos: Appendix B, Photos 14-15).

## **VI. Conclusions and Recommendations**

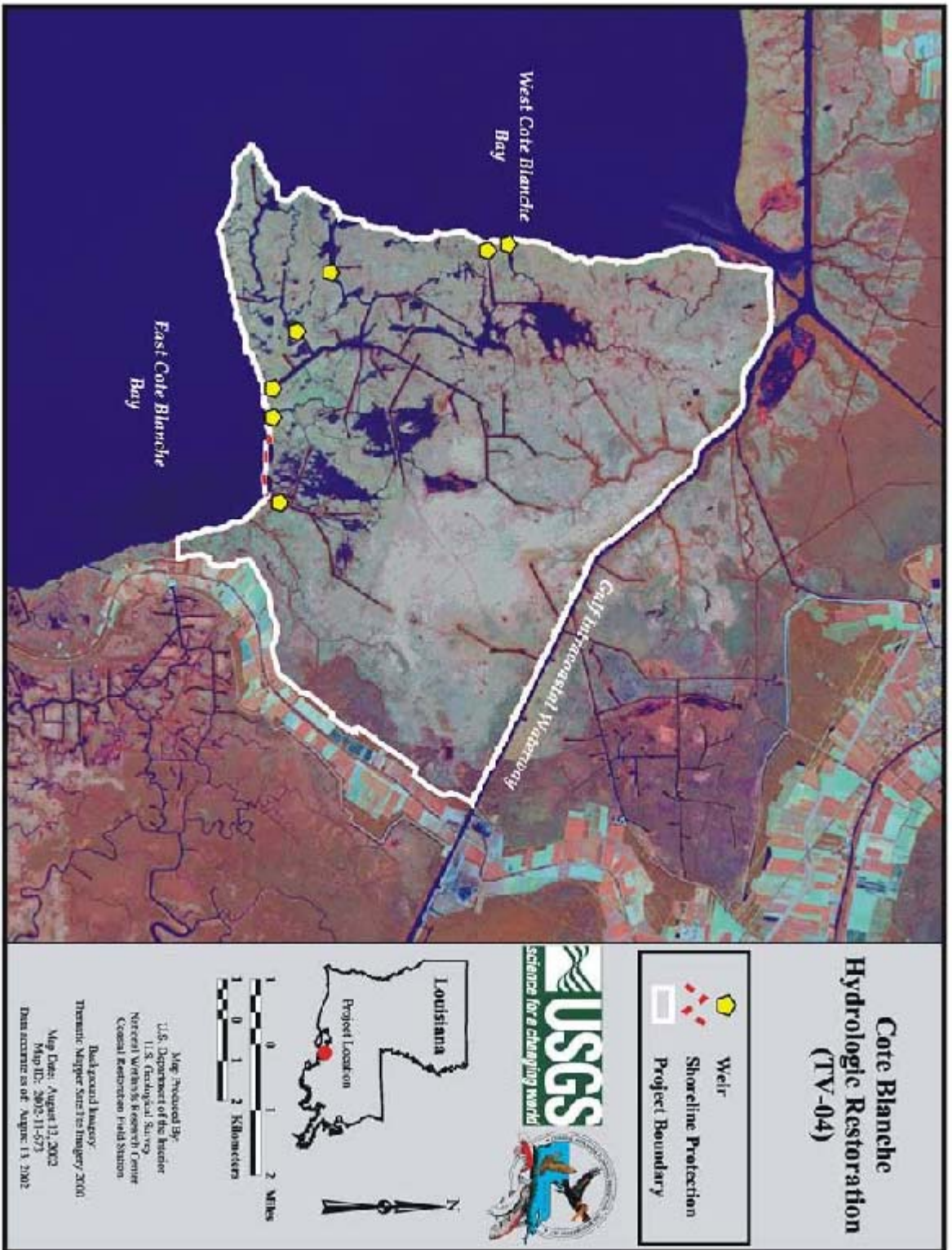
Overall, the Cote Blanche Hydrologic Restoration Project is in good condition and functioning as designed and did not appear to sustain any major damage from Hurricane Ike. The rock weirs at the intersections of School Bus Bayou and Humble Canal and the rock dike on the SE side of Humble Canal structure will be monitored, as will the sheet piles on structures where the coating is rusting.

Maintenance requirements for CY 2009:

- Replace/repair Coast Guard and other signage as necessary
- Verify staff gauges in the area



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



## **Appendix B**

### **Photographs**



**Photo 1**—signage at Mud Bayou



**Photo 2**— Missing sign, nav-aid marker, and railing @ Humble F Canal (on left)



**Photo 3** – Bayou Long



**Photo 4**—Bayou Carlin Structure and signage





**Photo 5**—missing sign and Nav-Aid lights at Humble Canal



**Photo 6**—eastern weir at School Bus Bayou



**Photo 7**—western weir at School Bus Bayou



**Photo 8**— south end of rock dike at location closure near Humble Canal



**Photo 9**—typical section of School Bus dike



**Photo 10**— damaged warning sign on School Bus Bayou dike





**Photo 11**— missing warning sign on Jackson Bayou



**Photo 12**—British American Canal structure and signage



**Photo 13**—rock along British American Canal



**Photo 14**—PVC wall near British American Canal



**Photo 15**—typical section of PVC wall

## **Appendix C**

### **Three Year Budget Projection**

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

**COTE BLANCHE/ TV-04 / PPL 3**  
**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>Stan Aucoin | <u>Federal Sponsor</u><br>NRCS | <u>Prepared By</u><br>Stan Aucoin |
|--------------------------------------|---|--------------------------------|-----------------------------------|

|                               | 2009/2010   | 2010/2011   | 2011/2012   |
|-------------------------------|-------------|-------------|-------------|
| <b>Maintenance Inspection</b> | \$ 5,737.00 | \$ 5,909.00 | \$ 6,086.00 |
| <b>Nav. Aid Inspections</b>   | \$ 3,000.00 | \$ 3,000.00 | \$ 3,000.00 |
| <b>Administration</b>         | \$ -        | \$ -        |             |

**Maintenance/Rehabilitation**

09/10 Description: Replace two staff gages, replace one nav.aid sign

|                                      |                     |
|--------------------------------------|---------------------|
| E&D                                  | \$ 10,000.00        |
| Construction                         | \$ 3,000.00         |
| Construction Oversight               | \$ -                |
| <i>Sub Total - Maint. And Rehab.</i> | <u>\$ 13,000.00</u> |

10/11 Description:

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

11/12 Description:

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

|                                     | 2009/2010           | 2010/2011          | 2011/2012          |
|-------------------------------------|---------------------|--------------------|--------------------|
| <b><u>Total O&amp;M Budgets</u></b> | <u>\$ 21,737.00</u> | <u>\$ 8,909.00</u> | <u>\$ 9,086.00</u> |

|  |                      |
|--|----------------------|
| <b><u>O &amp;M Budget (3 yr Total)</u></b>           | <u>\$ 39,732.00</u>  |
| <b><u>Unexpended O &amp; M Budget</u></b>            | <u>\$ 324,632.00</u> |
| <b><u>Remaining O &amp; M Budget (Projected)</u></b> | <u>\$ 284,900.00</u> |

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

**OPERATION AND MAINTENANCE BUDGET WORKSHEET**  
 COTE BLANCHE HR/ PROJECT NO. TV-04 / PPL NO. 3

| DESCRIPTION                   | UNIT | EST. QTY. | UNIT PRICE | ESTIMATED TOTAL |
|-------------------------------|------|-----------|------------|-----------------|
| O&M Inspection and Report     | EACH | 1         | \$5,737.00 | \$5,737.00      |
| General Structure Maintenance | LUMP | 1         | \$0.00     | \$0.00          |
| Engineering and Design        | LUMP | 1         | \$0.00     | \$0.00          |
| Navigational Aid Inspection   | LUMP | 1         | \$3,000.00 | \$3,000.00      |
| Construction Oversight        | LUMP | 1         | \$0.00     | \$0.00          |

**ADMINISTRATION**

|                                    |      |   |        |               |
|------------------------------------|------|---|--------|---------------|
| OCPR / CRD Admin.                  | LUMP | 1 | \$0.00 | \$0.00        |
| FEDERAL SPONSOR Admin.             | LUMP | 1 | \$0.00 | \$0.00        |
| SURVEY Admin.                      | LUMP | 0 | \$0.00 | \$0.00        |
| OTHER                              |      |   |        | \$0.00        |
| <b>TOTAL ADMINISTRATION COSTS:</b> |      |   |        | <b>\$0.00</b> |

**MAINTENANCE / CONSTRUCTION**

**SURVEY**

|                            |                              |      |   |                    |             |
|----------------------------|------------------------------|------|---|--------------------|-------------|
| SURVEY DESCRIPTION:        | Verify staff gages           |      |   |                    |             |
|                            | Secondary Monument           | EACH | 0 | \$0.00             | \$0.00      |
|                            | Staff Gauge / Recorders      | EACH | 2 | \$5,000.00         | \$10,000.00 |
|                            | Marsh Elevation / Topography | LUMP | 0 | \$0.00             | \$0.00      |
|                            | TBM Installation             | EACH | 0 | \$0.00             | \$0.00      |
|                            | OTHER                        |      |   |                    | \$0.00      |
| <b>TOTAL SURVEY COSTS:</b> |                              |      |   | <b>\$10,000.00</b> |             |

**GEOTECHNICAL**

|                                  |         |      |   |               |        |
|----------------------------------|---------|------|---|---------------|--------|
| GEOTECH DESCRIPTION:             |         |      |   |               |        |
|                                  | Borings | EACH | 0 | \$0.00        | \$0.00 |
|                                  | OTHER   |      |   |               | \$0.00 |
| <b>TOTAL GEOTECHNICAL COSTS:</b> |         |      |   | <b>\$0.00</b> |        |

**CONSTRUCTION**

|                           |  |        |          |      |                   |            |
|---------------------------|--|--------|----------|------|-------------------|------------|
| CONSTRUCTION DESCRIPTION: | Replace Nav. Aid sign at Humble Canal. |        |          |      |                   |            |
|                           | Rip Rap                                | LIN FT | TON / FT | TONS | UNIT PRICE        |            |
|                           | Rock Dike                              | 0      | 0.0      | 0    | \$65.00           | \$0.00     |
|                           | Bank Paving                            | 0      | 0.0      | 0    | \$60.00           | \$0.00     |
|                           |  | 0      | 0.0      | 0    | \$0.00            | \$0.00     |
|                           | Filter Cloth / Geogrid Fabric          | SQ YD  | 0        |      | \$8.00            | \$0.00     |
|                           | Navigation Aid                         | EACH   | 1        |      | \$0.00            | \$0.00     |
|                           | Signage                                | EACH   | 1        |      | \$3,000.00        | \$3,000.00 |
|                           | General Excavation / Fill              | CU YD  | 0        |      | \$0.00            | \$0.00     |
|                           | Dredging                               | CU YD  | 0        |      | \$0.00            | \$0.00     |
|                           | Sheet Piles (Lin Ft or Sq Yds)         |        | 0        |      | \$0.00            | \$0.00     |
|                           | Timber Piles (each or lump sum)        |        | 0        |      | \$0.00            | \$0.00     |
|                           | Timber Members (each or lump sum)      |        | 0        |      | \$0.00            | \$0.00     |
|                           | Hardware                               | LUMP   | 1        |      | \$0.00            | \$0.00     |
|                           | Materials                              | LUMP   | 1        |      | \$0.00            | \$0.00     |
|                           | Mob / Demob                            | LUMP   | 0        |      | \$0.00            | \$0.00     |
|                           | Contingency                            | LUMP   | 0        |      | \$0.00            | \$0.00     |
|                           | General Structure Maintenance          | LUMP   | 1        |      | \$0.00            | \$0.00     |
|                           | OTHER                                  |        |          |      | \$0.00            | \$0.00     |
|                           | OTHER                                  |        |          |      | \$0.00            | \$0.00     |
|                           | OTHER                                  |        |          |      | \$0.00            | \$0.00     |
|                           | <b>TOTAL CONSTRUCTION COSTS:</b>       |        |          |      | <b>\$3,000.00</b> |            |

**TOTAL OPERATIONS AND MAINTENANCE BUDGET: \$21,737.00**

## **Appendix D**

### **Field Inspection Form**

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 7 British American Canal

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir, rock on banks and canal

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks                                  |
|-----------------------|-----------|-----------------|-----------|---------|---|
| Steel Bulkhead / Caps | good      |                 |           | 12,13   | Some initial post construction rusting. No action needed. |
| Steel Grating         | N/A       |                 |           |         |   |
| Stop Logs             | N/A       |                 |           |         |   |
| Hardware              | good      |                 |           |         |   |
| Timber Piles          | N/A       |                 |           |         |   |
| Timber Wales          | N/A       |                 |           |         |   |
| Galv. Pile Caps       | N/A       |                 |           |         |   |
| Cables                | N/A       |                 |           |         |   |
| Signage / Supports    | good      |                 |           |         |   |
| Rip Rap (fill)        | good      |                 |           |         |   |
| 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?



Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 2 Humble F Canal

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir, rock paving on bank

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks  |
|-----------------------|-----------|-----------------|-----------|---------|---|
| Steel Bulkhead / Caps | good      |                 |           | 2       | Structure in good condition. Some slight rusting of pile caps. Warning sign, day marker and railing missing |
| Steel Grating         | N/A       |                 |           |         |   |
| Stop Logs             | N/A       |                 |           |         |   |
| Hardware              | good      |                 |           |         |   |
| Timber Piles          | good      |                 |           |         |   |
| Timber Wales          | N/A       |                 |           |         |   |
| Galv. Pile Caps       | N/A       |                 |           |         |   |
| Cables                | N/A       |                 |           |         |   |
| Signage / Supports    | good      |                 |           |         |   |
| Rip Rap (fill)        | good      |                 |           |         |   |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 5 Humble Canal

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir, rock on banks and canal

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks                                    |
|-----------------------|-----------|-----------------|-----------|---------|---|
| Steel Bulkhead / Caps | good      |                 |           |         | 5 Some initial post construction rusting. No action needed. |
| Steel Grating         | N/A       |                 |           |         |   |
| Stop Logs             | N/A       |                 |           |         |   |
| Hardware              | fair      |                 |           |         | 5 Handrail on western side of structure is damaged.         |
| Timber Piles          | N/A       |                 |           |         |   |
| Timber Wales          | N/A       |                 |           |         |   |
| Galv. Pile Caps       | good      |                 |           |         |   |
| USCG Lights           | poor      |                 |           |         | 5 NW nav-aid sign is missing and needs replacement.         |
| Signage / Supports    | poor      |                 |           |         |   |
| Rip Rap (fill)        | fair      |                 |           |         | 8 Some erosion on eastern closure, will be monitored        |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 8 PVC wall

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: approximately 3800 linear feet of PVC wall

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                    | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks  |
|-------------------------|-----------|-----------------|-----------|---------|---|
| PVC sheet piling / Caps | fair      |                 |           | 14,15   | PVC wall appears to be in post construction condition and holding up well.                                      |
| Steel Grating           |           |                 |           |         |   |
| Stop Logs               |           |                 |           |         |   |
| Hardware                | good      |                 |           |         |   |
| Timber Piles            | good      |                 |           |         | Some pile caps missing again. No immediate action necessary.  |
| Timber Wales            | good      |                 |           |         |   |
| Galv. Pile Caps         |           |                 |           |         |   |
| Cables                  |           |                 |           |         |   |
| Signage / Supports      | good      |                 |           |         | All signs in place and in immediate post construction condition.  |
| Rip Rap (fill)          | good      |                 |           |         | Rock placed along the inside and outside of the PVC wall is still in place and functional. No action necessary. |
| Earthen Embankment      |           |                 |           |         |   |

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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 3 Bayou Long

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks  |
|-----------------------|-----------|-----------------|-----------|---------|---|
| Steel Bulkhead / Caps | good      |                 |           | 3       | Structure in pristine post-construction condition. Some slight rusting of pile caps. No immediate action necessary. |
| Steel Grating         | N/A       |                 |           |         |   |
| Stop Logs             | N/A       |                 |           |         |   |
| Hardware              | good      |                 |           |         |   |
| Timber Piles          | good      |                 |           |         |   |
| Timber Wales          | N/A       |                 |           |         |   |
| Galv. Pile Caps       | N/A       |                 |           |         |   |
| Cables                | N/A       |                 |           |         |   |
| Signage / Supports    | good      |                 |           |         |   |
| Rip Rap (fill)        | N/A       |                 |           |         |   |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 1 Mud Bayou

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir, rock paving on bank

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks   |
|-----------------------|-----------|-----------------|-----------|---------|--|
| Steel Bulkhead / Caps | good      |                 |           |         | It appears the old bayou channel that existed to the marsh side of the structure appears somewhat wider. |
| Steel Grating         | N/A       |                 |           |         |  |
| Stop Logs             | N/A       |                 |           |         |  |
| Hardware              | good      |                 |           |         |  |
| Timber Piles          | good      |                 |           |         |  |
| Timber Wales          | N/A       |                 |           |         |  |
| Galv. Pile Caps       | N/A       |                 |           |         |  |
| Cables                | N/A       |                 |           |         |  |
| Signage / Supports    | good      |                 |           |         |  |
| Rip Rap (fill)        | good      |                 |           |         |  |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 6 Jackson Bayou

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks                                       |
|-----------------------|-----------|-----------------|-----------|---------|--|
| Steel Bulkhead / Caps | good      |                 |           | 11      | Some slight rusting of pile caps. West warning sign is missing |
| Steel Grating         | N/A       |                 |           |         |  |
| Stop Logs             | N/A       |                 |           |         |  |
| Hardware              | good      |                 |           |         |  |
| Timber Piles          | poor      |                 |           |         |  |
| Timber Wales          | N/A       |                 |           |         |  |
| Galv. Pile Caps       | N/A       |                 |           |         |  |
| Cables                | N/A       |                 |           |         |  |
| Signage / Supports    | good      |                 |           |         |  |
| Rip Rap (fill)        | N/A       |                 |           |         |  |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. 4 Bayou Carlin

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Fixed crest weir

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| Item                  | Condition | Physical Damage | Corrosion | Photo # | Observations and Remarks  |
|-----------------------|-----------|-----------------|-----------|---------|---|
| Steel Bulkhead / Caps | good      |                 |           |         | Structure in pristine post-construction condition. Some slight rusting of pile caps. No immediate action necessary. |
| Steel Grating         | N/A       |                 |           |         |   |
| Stop Logs             | N/A       |                 |           |         |   |
| Hardware              | good      |                 |           |         |   |
| Timber Piles          | good      |                 |           |         |   |
| Timber Wales          | N/A       |                 |           |         |   |
| Galv. Pile Caps       | N/A       |                 |           |         |   |
| Cables                | N/A       |                 |           |         |   |
| Signage / Supports    | good      |                 |           |         |   |
| Rip Rap (fill)        | N/A       |                 |           |         |   |
| 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?

Annual Inspection Report  
 COTE BLANCHE HYDROLOGIC RESTORATION PROJECT  
 State Project No. TV-04

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: TV-04 Cote Blanche

Date of Inspection: April 1, 2008 Time:

Structure No. School Bus Bayou SP

Inspector(s): Stan Aucoin, Melvin Guidry (OCPR)  
 Dale Garber (NRCS); John Foret (NMFS)

Structure Description: Foreshore Rock Dike & Weirs

Water Level Inside: Outside:  
 Weather Conditions: Cloudy and Clear

Type of Inspection: Annual

| 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    | Good      |                 |           | 10      | One sign is down  |
| Rip Rap (fill)        |           |                 |           |         |   |
| School Bus Bayou      | Good      |                 |           | 9       | Some settlement of rock dike, will need to be monitored.                    |
| Low Level Weirs       | Good      |                 |           | 6,7     | Rock at bottom of each weir apparently washed out, floating fabric noticed. |
| 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**