

Coastal Protection and Restoration Authority of Louisiana

Office of Coastal Protection and Restoration

2010 Annual Inspection Report

NAOMI OUTFALL MANAGEMENT

State Project Number BA-03c Priority Project List 5

December 13, 2010 Jefferson Parish

Prepared by:

Barry Richard, P.E. CPRA/ Office of Coastal Protection and Restoration New Orleans Field Office CERM, Suite 309 2045 Lakeshore Dr. New Orleans, La 70122

Table of Contents

| I. | Introduction | on | 1 | | | | | | | |
|------|-------------------------------------|-------------------------------|---|--|--|--|--|--|--|--|
| II. | II. Project Description and History | | | | | | | | | |
| III. | Inspection | Purpose and Procedures | 3 | | | | | | | |
| IV. | Inspection | Results | 3 | | | | | | | |
| | Bayou Du | pont Canal Weir | 3 | | | | | | | |
| | Goose Bay | you Canal Weir | 4 | | | | | | | |
| V. | Conclusio | ns | 4 | | | | | | | |
| VI. | Recomme | ndations | 4 | | | | | | | |
| | Immediate | e Repairs | 4 | | | | | | | |
| | Programm | ned Maintenance | 5 | | | | | | | |
| | | Appendices | | | | | | | | |
| | | ** | | | | | | | | |
| Ap | pendix A | Project Features Map | | | | | | | | |
| Ap | pendix B | Photographs | | | | | | | | |
| Ap | pendix C | Three Year Budget Projections | | | | | | | | |
| Аp | pendix D | Field Inspection Form | | | | | | | | |

I. Introduction

The Naomi Outfall Management Project (State Project No. BA-03c) is located south of Lafitte, Louisiana. Although the project features are located entirely in Jefferson Parish, the project outfall area encompasses 27,135 acres in Jefferson and Plaquemines Parishes. More specifically, project features are located on two streams – Goose Bayou Canal and Bayou Dupont – which connect the Barataria Bay Waterway to the Pen (Appendix A).

II. Project Description and History

In February, 1993, the Naomi Siphon, located on the west bank of the Mississippi River, went into operation and has delivered an average of 997 cfs of fresh river water (when operating) into the marshes and streams east of the Pen. Much of this fresh water eventually exits the project area via Goose Bayou Canal and Bayou Dupont Canal which connect the Pen with the Barataria Waterway. During periods of high tide, reverse flow occurs and high-salinity water from the Barataria Waterway enters the Pen via the two subject canals. So, the two canals provide a natural avenue for loss of fresh river water from the project area and intrusion of high-salinity water into the project area.

The present project, which consists of fixed crest weirs with boat bays, restricts the hydrologic connections between the Pen and the Barataria Waterway. This restriction holds diverted water and nutrients in the project area, while restricting the high salinity waters from the Barataria Waterway. The weirs moderate or dampen the interchange of water into and out of the Pen through Goose Bayou Canal and Bayou Dupont Canal. Thus, retention of sediment-rich fresh siphon water in the outfall area is maximized, and intrusion of high-salinity water is minimized.

Project construction began on June 1, 2002, and was completed on July 15, 2002. Project life is estimated to be 20 years. Annual project inspections are planned.

On June 20, 2006, a contract was awarded to place two warning buoys in places where warning signs were damaged and to replace 5 navigation lights. This project was completed on October 4, 2006.

The principal project features include:

1. One stone weir at Goose Bayou Canal

- a. Total length of weir = 458 ft.
- b. Bottom width of boat bay = 30 ft.
- c. Boat bay bottom elevation= -5 ft. (NAVD 88)
- d. Weir crest = +1 ft. (NAVD 88)
- e. Rock placed directly on geotextile
- f. Rock rip rap = 3.967 tons
- g. Geotextile = 2,851 yards

h. Rock conforms to Rock Type 1 of Material Specification 523 with a gradation of:

| Percent Lighter Than | Rock Unit Weight |
|-----------------------------|------------------|
| 100 | 700 lbs |
| 50-100 | 300 lbs |
| 15-50 | 150 lbs |
| 0-15 | 45 lbs |

- i. Four (4) 4-piling clusters with navigation aid lights and warning signs
- j. Six (6) single pilings with warning signs
- k. Thirty-two buoys and associated stainless steel cable

2. One stone weir at **Bayou Dupont Canal**

- a. Total length of weir = 302 ft.
- b. Bottom width of boat bay = 30 ft.
- c. Boat bay bottom elevation = -5 ft. (NAVD 88)
- d. Weir crest +1 ft. (NAVD 88)
- e. Rock placed directly on geotextile
- f. Rock rip rap = 8,505 tons
- g. Geotextile = 3,374 yards
- h. Rock conforms to Rock Type 1 of Material Specification 523 with a graduation of:

| Percent Lighter Than | Rock Unit Weight |
|----------------------|------------------|
| 100 | 700 lbs |
| 50 -100 | 300 lbs |
| 15-50 | 150 lbs |
| 0-15 | 45 lbs |

- i. Four (4) 4-pile clusters with day mark navigation signs and three (3) of the piling clusters have navigation aid lights.
- j. Three (3) single pilings with warning signs (reduced from five (5) in 2006 repair project)
- k. Twenty-two warning buoys with stainless steel cable
- 1. Two (2) marker buoys with warning markings and internal radar reflectors (added during 2006 repair project in place of two (2) single pilings with warning signs).

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the Naomi Outfall Management Project (BA-03c) 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 December 24, 2002). 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 Naomi Outfall Management Project are outlined in Section II.

An inspection of the Naomi Outfall Management Project (BA-03c) was held on May 18, 2010, by Barry Richard of OCPR and Quin Kinler of NRCS. There was a light wind and the skies were clear. Photographs of that inspection are included in Appendix B of this report.

IV. Inspection Results

BAYOU DUPONT CANAL WEIR

Rock Riprap

There were no notable changes in the rock rip rap during this inspection.

Pilings

The two pilings on either side of the boat bay which were damaged have been replaced with regulatory marker buoys. Both of these buoys are now missing. The damaged piling clusters supporting the navigation lights have been repaired and another cluster is now damaged.

Warning Signs and Day Board Navigation Signs

All signs are in good condition.

Navigation Aid Lights

There was no damage to any navigation lights. There is a contract in place to handle the maintenance and repair of all navigation lights.

Regulatory Marker Buoys

Both buoys are missing.

GOOSE BAYOU CANAL WEIR

Rock Riprap

The rock appears to be settling as it is rarely visible above the water line. A survey is warranted to determine if maintenance is needed.

Pilings

All pilings visually appeared to be damage-free and in good condition.

Warning Signs and Day Board Navigation Signs

Some of the signs are losing their lettering due to weathering. The orange warning buoys on the north side came loose from the anchors in 2009. They were temporarily repaired and one string had come loose again for the inspection. This string was tied to a piling so it doesn't drift. Further repair is warranted.

Navigation Aid Lights

There was no damage to any navigation lights. There is a contract in place to handle the maintenance and repair of all navigation lights.

V. Conclusions

Overall, the Naomi Outfall Management project is functioning properly and is in fair condition. Vandalism to the navigational aids continues to be a concern. The BA-41 South Shore of the Pen Shoreline Protection Project is anticipated to go into the construction phase this year; access to BA-41 requires removal of the Bayou Dupont Canal weir; upon completion of BA-41, the Bayou Dupont Canal weir will be reconstructed and any other repairs needed for the Bayou Dupont Canal pilings, warning signs, buoys, etc.will be made at this time.

VI. Recommendations

Immediate Repairs

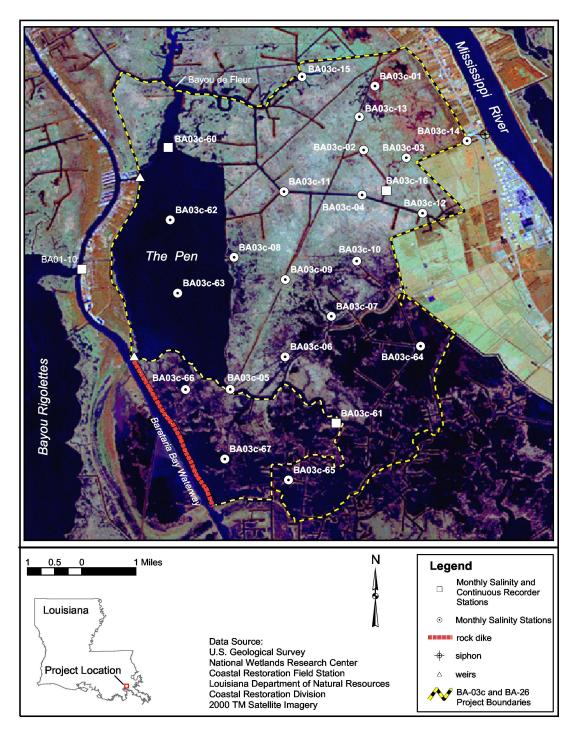
- Bayou Dupont Canal weir repairs will be addressed upon completion of the BA-41 project.
- A survey of the Goose Bayou Canal weir is needed to determine if maintenance is needed.
- At the Goose Bayou Canal, the string of orange warning buoys on the north side need to be securely anchored to keep it in its proper position.

Programmed Maintenance

• A contract has been awarded to Automatic Power for regular maintenance of the lights.

Appendix A

Project Features Map



Appendix B

Photographs



Photo #1 – Bayou Dupont Canal Weir. Approaching the structure from the Barataria Waterway, looking toward the Pen.



Photo #2 – Goose Bayou Canal Weir. Looking West.

Appendix C

Three Year Budget Projection

| | | ment / BA-03c / PPL 5 ce Budgets 07/01/2010 · | 06/30/2013 |
|----------------------------------|-------------------------------|--|---------------|
| | | | |
| Project Manager | O & M Manager | <u>Federal Sponsor</u> | Prepared By |
| Barry Richard | Barry Richard | NRCS | Barry Richard |
| | 2010/2011 | 2011/2012 | 2012/2013 |
| Maintenance Inspection | \$3,342.00 | \$3,429.00 | \$3,518.00 |
| General Maintenance | \$3,000.00 | \$3,000.00 | \$3,000.0 |
| Structure Operation | \$0.00 | \$0.00 | \$0.0 |
| Administration | \$0.00 | \$0.00 | \$0.00 |
| Maintenance/Rehabilitation | | | |
| 0/11 Description: Survey to dete | ermine elevation of Goose Ba | ayou Structure | |
| E&D | \$30,000.00 | | |
| Construction | \$0.00 | | |
| Construction Oversight | | | |
| Sub Total - Maint. And Rehab. | \$ 30,000.00 | | |
| | ¥ 23,33333 | | |
| 1/12 Description | | | |
| E&D | | \$0.00 | |
| Construction | | \$0.00 | |
| Construction Oversight | | \$0.00 | |
| J | Sub Total - Maint. And Rehab. | \$ - | |
| 2/13 Description: | | | |
| Fan | | | Φ0.0 |
| E&D | | | \$0.00 |
| Construction | | | \$0.00 |
| Construction Oversight | | 0.1.7.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | \$0.00 |
| | | Sub Total - Maint. And Rehab. | \$ - |
| | 2010/2011 | 2011/2012 | 2012/2013 |
| Total O&M Budgets | \$ 36,342.00 | \$ 6,429.00 | \$ 6,518.00 |
| | | | |
| O &M Budget (3 yr To | otal) | | \$ 49,289.00 |
| Unexpended O & M B | udget | | \$ 305,677.68 |
| Remaining O & M Bu | daet (Projected) | | \$ 256,388.68 |

| | OPERATION ANI | | | | | | |
|-----------------------|---|---------|--------------|--------------|-------------------|--------------------|----------|
| | Nac | mı Outi | ali Man | ageme | nt / BA-03c / PP | L 5 | |
| | DESCRIPTION | | UNIT | EST. QTY. | UNIT PRICE | ESTIMATED TOTAL | |
| | O&M Inspection and Report | EACH | 1 | \$3,342.00 | \$3,342.00 | | |
| | General Structure Maintenance | | LUMP | 1 | \$3,000.00 | \$3,000.00 | |
| | Engineering and Design | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Operations Contract | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Construction Oversight | | LUMP | 0 | \$0.00 | \$0.00 | |
| | | | ADN | MINISTRAT | TON | | |
| | LDNR / CRD Admin. | | LUMP | 0 | \$0.00 | \$0.00 | |
| | FEDERAL SPONSER Admin. | | LUMP | 0 | \$0.00 | \$0.00 | |
| | SURVEY Admin. | | LUMP | 0 | \$2,000.00 | \$0.00 | |
| | OTHER | | | | | \$0.00 | |
| | | | | TOTAL ADM | NISTRATION COSTS: | \$0.00 | |
| | | M | ΔΙΝΤΕΝΔΝ | CE / CONS | STRUCTION | | |
| | SURVEY | | | 0270011 | JIII GOTIGIC | | |
| SURVEY SCRIPTION: | | | | | | | |
| JUNIF HUN: | Secondary Monument | | EACH | 0 | \$0.00 | \$0.00 | |
| | Staff Gauge / Recorders | | EACH | 0 | \$0.00 | \$0.00 | |
| | Marsh Elevation / Topography | | LUMP | 1 | \$30,000.00 | \$30,000.00 | |
| | TBM Installation | | EACH | 0 | \$0.00 | \$0.00 | |
| | | | LUMP | 0 | \$0.00 | \$0.00 | |
| | | | | то | TAL SURVEY COSTS: | \$30,000.00 | |
| | | | | | | | |
| 05075011 | GEOTECHNICAL | | | | | | |
| GEOTECH SCRIPTION: | | | | | | | |
| | Borings | | EACH | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | | | \$0.00 | |
| | | | • | TOTAL GE | OTECHNICAL COSTS: | \$0.00 | |
| | | | | | | | |
| NSTRUCTION | CONSTRUCTION | | | | | | |
| SCRIPTION: | | | • | ı | | | |
| | Rip Rap | LINFT | TON / FT | TONS | UNIT PRICE | 00.00 | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | Filter Olette / Oceanidal Faleria | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | Filter Cloth / Geogrid Fabric | | SQ YD | 0 | \$0.00 | \$0.00 | |
| | Navigation Aid | | EACH EACH | 0 | \$0.00 \$0.00 | \$0.00 \$0.00 | |
| | Signage General Excavation / Fill | | CU YD | 0 | \$0.00 | \$0.00 | |
| | | | CU YD | | | \$0.00 | |
| | Dredging Sheet Piles (Lin Ft or Sq Yds) | | COTD | 0 | \$0.00 \$0.00 | \$0.00 | |
| | Timber Piles (Lin Ft or Sq Yds) | | - | 0 | \$0.00 | \$0.00 | |
| | Timber Members (each or lump sum) | | | 0 | \$0.00 | \$0.00 | |
| | Hardware | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Materials | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Mob / Demob | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Contingency | | LUMP | 0 | \$0.00 | \$0.00 | |
| | OTUE D | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | - | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | | | | TOTAL CO | NSTRUCTION COSTS: | \$0.00 | |
| | | | TAL OF | CDATIC | NO AND MAINTE | MANOE DUBOET | |
| | | IC | JI AL OP | EKA HO | NS AND MAINTEI | NANCE BUDGET: | \$36,342 |

| | OPERATION ANI | | | | | | |
|-----------------------|-----------------------------------|---------|----------------|------------|--------------------|------------------|---------|
| | Nac | mi Outi | fall Man | agemei | nt / BA-03c / PP | L 5 | |
| | | | | EST. | | ESTIMATED | |
| | DESCRIPTION | UNIT | QTY. | UNIT PRICE | TOTAL | | |
| | O&M Inspection and Report | EACH | 1 | \$3,429.00 | \$3,429.00 | | |
| | General Structure Maintenance | LUMP | 1 | \$3,000.00 | \$3,000.00 | | |
| | Engineering and Design | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Operations Contract | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Construction Oversight | | LUMP | 0 | \$0.00 | \$0.00 | |
| | LIBNO (ODD A L. | | 1 | IINISTRAT | | 00.00 | |
| | LDNR / CRD Admin. | | LUMP LUMP | 0 | \$0.00 | \$0.00 | |
| | FEDERAL SPONSER Admin. | | | 0 | \$0.00 | \$0.00 | |
| | SURVEY Admin. OTHER | | LUMP | U | \$0.00 | \$0.00 \$0.00 | |
| | OTTEN | | | TOTAL ADM | INISTRATION COSTS: | \$0.00 | |
| | | | | | | φυ.υυ | |
| | | М | AINTENAN | CE / CONS | STRUCTION | | |
| | SURVEY | | | | | | |
| SURVEY ESCRIPTION: | | | | | | | |
| ESUNIT HUN: | Secondary Monument | | EACH | 0 | \$0.00 | \$0.00 | |
| | Staff Gauge / Recorders | | EACH | 0 | \$0.00 | \$0.00 | |
| | Marsh Elevation / Topography | | LUMP | 0 | \$0.00 | \$0.00 | |
| | TBM Installation | | EACH | 0 | \$0.00 | \$0.00 | |
| | 15W Hotelleton | | LUMP | 0 | \$0.00 | \$0.00 | |
| | | | | то | TAL SURVEY COSTS: | \$0.00 | |
| | | | | | | , , , | |
| | GEOTECHNICAL | | | | | | |
| GEOTECH | | | | | | | |
| DESCRIPTION: | D : | | FACU. | | *** | 00.00 | |
| | Borings | | EACH | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | TOTAL CE | OTECHNICAL COSTS: | \$0.00 | |
| | | | | TOTAL GE | OTECHNICAL COSTS: | \$0.00 | |
| | CONSTRUCTION | | | | | | |
| ONSTRUCTION | | | | | | | |
| ESCRIPTION: | | | | | | | |
| | Rip Rap | LIN FT | TON / FT | TONS | UNIT PRICE | | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | Filter Cloth / Geogrid Fabric | | SQ YD | 0 | \$0.00 | \$0.00 | |
| | Navigation Aid | | EACH | 0 | \$0.00 | \$0.00 | |
| | Signage General Excavation / Fill | | EACH | 0 | \$0.00 \$0.00 | \$0.00 | |
| | Dredging | | CU YD CU YD | 0 | \$0.00 | \$0.00 \$0.00 | |
| | Sheet Piles (Lin Ft or Sq Yds) | | 00 10 | 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 | 0 | \$0.00 | \$0.00 | |
| | Materials | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Mob / Demob | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Contingency | | LUMP | 0 | \$0.00 | \$0.00 | |
| | | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | | | | TOTAL CO | NSTRUCTION COSTS: | \$0.00 | |
| | | | | | | | |
| | | T/ | παι αν | FRATIC | NS AND MAINTE | NANCE BUIDGET: | \$6,429 |

| | Nac | mı Outf | all Man | ageme | nt / BA-03c / PP | 'L 5 | |
|------------------------|-----------------------------------|---------|----------|--------------|---------------------------------------|-----------------------------------|--|
| | DESCRIPTION | | UNIT | EST. QTY. | UNIT PRICE | ESTIMATED TOTAL | |
| | O&M Inspection and Report | | EACH | 1 | \$3,518.00 | \$3,518.00 | |
| | General Structure Maintenance | | LUMP | 1 | \$3,000.00 | \$3,000.00 | |
| | Engineering and Design | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Operations Contract | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Construction Oversight | | LUMP | 0 | \$0.00 | \$0.00 | |
| | | | ADN | IINISTRAT | TION | | |
| | LDNR / CRD Admin. | | LUMP | 0 | \$0.00 | \$0.00 | |
| | FEDERAL SPONSER Admin. | | LUMP | 0 | \$0.00 | \$0.00 | |
| | SURVEY Admin. | | LUMP | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | | | \$0.00 | |
| | | | | TOTAL ADM | INISTRATION COSTS: | \$0.00 | |
| | | | | | | | |
| | | M | AINTENAN | CE / CON | STRUCTION | | |
| | SURVEY | | | | | | |
| SURVEY DESCRIPTION: | | | | | | | |
| | Secondary Monument | | EACH | 0 | \$0.00 | \$0.00 | |
| | Staff Gauge / Recorders | | EACH | 0 | \$0.00 | \$0.00 | |
| | Marsh Elevation / Topography | | LUMP | 0 | \$0.00 | \$0.00 | |
| | TBM Installation | | EACH | 0 | \$0.00 | \$0.00 | |
| | - Strandardin | | LUMP | 0 | \$0.00 | \$0.00 | |
| | L | | I COM | | OTAL SURVEY COSTS: | \$0.00 | |
| | | | | | | ψο.σσ | |
| | GEOTECHNICAL | | | | | | |
| GEOTECH | | | l. | | <u> </u> | | |
| DESCRIPTION: | | | ı | | | | |
| | Borings | | EACH | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | TOTAL CE | OTECHNICAL COSTS: | \$0.00 | |
| | | | | TOTAL GL | OTECHNICAE COSTS. | \$0.00 | |
| | CONSTRUCTION | | | | | | |
| ONSTRUCTION | | | | | | | |
| DESCRIPTION: | | ı | 1 | | | | |
| | Rip Rap | LINFT | TON/FT | TONS | UNIT PRICE | | |
| | | 0 | 0.0 | 0 | \$0.00 | \$0.00 | |
| | | 0 | 0.0 | 0 | \$0.00 \$0.00 | \$0.00 \$0.00 | |
| | Filter Cloth / Geogrid Fabric | U | SQ YD | 0 | \$0.00 | \$0.00 | |
| | Navigation Aid | | EACH | 0 | \$0.00 | \$0.00 | |
| | Signage | | EACH | 0 | \$0.00 | \$0.00 | |
| | 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 | 0 | \$0.00 | \$0.00 | |
| | Materials | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Mob / Demob | | LUMP | 0 | \$0.00 | \$0.00 | |
| | Contingency | | LUMP | 0 | \$0.00 | \$0.00 | |
| | OTUED | | | 0 | \$0.00 | \$0.00 | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | | | l | ^ | | | |
| | OTHER | | | 0 | \$0.00 | \$0.00 | |
| | | | | 0 | \$0.00 \$0.00 NSTRUCTION COSTS: | \$0.00 \$0.00 \$0.00 | |

Appendix D

Field Inspection Form

| | | | FIELD IN | SPECTION | CHECK SHEET | | | | |
|------------------------|-----------|------------------|-----------|----------|------------------------------|-------------|--------------|-----------------------|--------------|
| Project No. / Name: | Naomi Ou | tfall Management | | | Date of Inspection: | 5/18/2010 |) | Time: | 9:30 |
| Structure No. | Bayou | Dupont Canal | | | Inspector(s): | | | Richard, Kinler | |
| Structure Description: | St | one Weir | | | Water Level: | Inside: | N/A | Outside: | 1.36' |
| Type of Inspection: | | Annual | | | Weather Conditions: | | Clea | r skies, Light Wind | |
| Item | Condition | Physical Damage | Corrosion | Photo # | | Obse | rvations an | d Remarks | |
| Rock Riprap | Good | None | N/A | #1 | | | | | |
| Creosote Piling | Fair | None | None | #1 | Some damage to pile clusters | | | | |
| Warning Signs and | | | | | | | | | |
| Day Board | Fair | None | None | #1 | | | | | |
| Navigation Signs | | | | | | | | | |
| Navigation Aid | | | | | | | | | |
| Lights | Fair | None | None | #1 | | | | | |
| Warning Buoys | Poor | See observations | None | #1 | | | Both Miss | ing | |
| Vandalism | N/A | N/A | N/A | | Pile clusters still | in the same | condition as | last inspection. No n | ow vandalism |

| | | FIELD IN | SPECTION | CHECK SHEET | | | | |
|-----------|---|---|---|--|---|--|---|---|
| Naomi Ou | tfall Management | | | Date of Inspection: | 5/18/2010 | | Time: | 9:30 |
| Goose | Bayou Canal | | | Inspector(s): | | Rich | ard, Kinler | |
| St | one Weir | | | Water Level: | Inside: | N/A | Outside: | 1.36' |
| | Annual | | | Weather Conditions: | | Clear sk | ies, Light Wind | |
| Condition | Physical Damage | Corrosion | Photo # | | Obse | rvations and Re | emarks | |
| Good | None | N/A | | | Possible | settlement, surv | ey needed. | |
| Good | None | None | #2 | | | | | |
| | | | | | | | | |
| Good | None | None | #2 | Weathering of le | ettering, poss | ible replacement | needed. Continu | e to observe. |
| | | | | | | | | |
| | | | | | | | | |
| Good | None | None | #2 | | | | | |
| | | | | Ter | mporary repai | r after strings bro | oke loose in 2009 | |
| Good | None | None | #2 | | One string lo | ose again, tied to | warning sign. | |
| | | | | | Peri | manent repair ne | eded. | |
| N/A | N/A | N/A | | | | | | |
| | Goose St Condition Good Good Good Good | Good None Good None Good None Good None Good None | Naomi Outfall Management Goose Bayou Canal Stone Weir Annual Condition Physical Damage Corrosion Good None N/A Good None None Good None None Good None None Good None None | Naomi Outfall Management Goose Bayou Canal Stone Weir Annual Condition Physical Damage Corrosion Photo # Good None N/A Good None None #2 Good None None #2 Good None None #2 | Goose Bayou Canal Inspector(s): Stone Weir Water Level: Annual Weather Conditions: Condition Physical Damage Corrosion Photo # Good None N/A Good None None #2 Good None None #2 Good None None #2 Good None None #2 Good None None #2 | Naomi Outfall Management Goose Bayou Canal Stone Weir Annual Condition Physical Damage Good None Non | Naomi Outfall Management Goose Bayou Canal Inspector(s): Stone Weir Annual Weather Conditions: Clear ski Condition Physical Damage Corrosion Photo # Observations and Re Good None None None #2 Weathering of lettering, possible replacement Good None None #2 Temporary repair after strings bro Good None None None #2 One string loose again, tied to Permanent repair ne | Naomi Outfall Management Goose Bayou Canal Inspector(s): Water Level: Inside: N/A Outside: Annual Condition Physical Damage Corrosion Photo # Observations and Remarks Good None None None None None Weathering of lettering, possible replacement needed. Continu Good None None None None None Weathering of lettering, possible replacement needed. Continu Good None None None None None Weathering of lettering, possible replacement needed. Continu Good None None None None None Possible settlement, survey needed. Good None None None None None None Possible settlement, survey needed. Continu Good None None None None None Possible replacement needed. Continu Good None None None Permanent repair after strings broke loose in 2009 One string loose again, tied to warning sign. Permanent repair needed. |