2019 Annual Inspection Report

for

Jonathan Davis Wetland Restoration Project

State Project Number BA-20
Priority Project List 2

March 26, 2019
Jefferson Parish

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I. Introduction

The Jonathan Davis Wetland Restoration Project (BA-20) is located in Jefferson Parish within the Barataria Basin. The 7,462-acre (3,020 ha) project area is bounded on the north by the Pailet Canal, on the east by La. Hwy. 301, on the south by Bayous Perot and Rigolettes, and on the west by the Gulf Intracoastal Waterway (GIWW) (see Appendix A).

II. Project Description and History

Overall, 1,393 acres (557 ha) of land within the Jonathan Davis Wetland Restoration Project area were converted to open water between 1945 and 1989 (Coastal Environments Inc. 1991). The average rate of change of marsh to non-marsh (including loss to both open water and commercial development) has increased since the 1940s (Dunbar et al. 1992). National Biological Survey (NBS) Geographic Information System (GIS) habitat data from 1956 characterized the majority of the area as fresh marsh. However, the 1978 and 1990 data indicate that the area had become more saline. In 1978, 1988, and 1990, the area was classified as primarily intermediate marsh (NBS 1994a; NBS 1994b; NBS 1994c; Chabreck and Linscombe 1988).

Large scale factors influencing degradation in the Barataria Basin include subsidence, lack of sedimentation, and reduced freshwater influx due to the levee system on the Mississippi River and its major distributaries. To compound this problem, there are no major external sources of inorganic sediment into the project area, although some sediment does enter via the GIWW. Moreover, storm surges moving through numerous oil field canals within the area have caused erosion and the loss of organic sediments.

Other factors influencing wetland loss within the project area are increased water exchange, saltwater intrusion, tidal scour, and shoreline erosion along Bayous Perot and Rigolettes. Shoreline erosion from 1945 to 1989 caused primarily by wave action along Bayou Perot has been measured at 20 ft/yr (6.1 m/yr) (Coastal Environments Inc. 1991). Saltwater intrusion and tidal scour are believed to have been enhanced with the construction of various oil field canals that were dredged in the 1940s when oil companies were not responsible for maintaining a continuous spoil bank along the canals. As a result, the breaches that occurred were not repaired and subsequently exposed the interior marsh to increased tidal flows and salinity during storm surges (U.S. Department of Agriculture, Soil Conservation Service 1994).

Project features consist of shoreline protection, rock armored plugs, a sheet pile weir, and two rock weirs with boat bays (see Appendix A).
Construction Unit 1, which consists of project features 12, 13, 14, 15, 16, 17, 19, 20, and 21 (as shown on the project features map in Appendix A), was completed in September 1998. Construction Unit 2 was completed in May 2001, which included a sheet pile weir at structure 22, and shoreline protection from structures 20 to 22. Construction Unit 3, which consists of shoreline protection extending from project feature 12 to the GIWW, was completed on July 7, 2003. Construction Unit 4, completed in January 2012, consists of rip-rap and pre-cast concrete shoreline protection extending across the northern edge of Bayou Rigolettes and Bayou Perot, from just east of Structure 12 to west of Structure 20. Construction of features 1, 2, 3, 6, 8, 9, 10, and 11 in the northern project area has been postponed due to the anticipated positive influence of the Davis Pond Diversion, a lack of funding, and land rights issues.

On January 30, 2002, Stone Energy Corporation was issued a Coastal Use Permit to plug and abandon existing wells within the Jonathan Davis Wetland Protection Project. This work was completed on July 18, 2002 and consisted of removing and replacing structures 13 & 19 (rock weirs with boat bays) and to plug and abandon several existing wells located behind these structures. As part of the construction documents prepared by NRCS for this project, Stone Energy Corporation was required to reconstruct structure 13, increasing the boat bay crest from 50’ to 100’ in width and raising the crest elevation from -5.0’ NGVD to -2.5’ NGVD. The cost associated with removing and replacing these structures was incurred entirely by Stone Energy Corporation. However, at the request of NRCS, CPRA (formerly OCPR) was required to provide inspection services for this project. CPRA obtained the services of GSE Associates, Inc. to inspect construction activities and prepare a project completion report and as-built drawings. These inspection services were performed for a total cost of $9,394.13.

**Previous Maintenance**

As part of the construction contract for Construction Unit 4, maintenance was performed on structures 14, 15, and 17. Due to the location and activity of a pipeline in the vicinity of Structure 16, no work was performed there.

**III. Inspection Purpose and Procedures**

The purpose of the annual inspection of the BA-20 project is to evaluate the constructed project features, to identify any deficiencies, and to prepare a report detailing the condition of project features and recommended corrective actions, if needed. Should it be determined that corrective actions are needed, CPRA shall provide a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan March 18, 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
included in Appendix C. A summary of past maintenance projects completed since construction of the project are outlined in Section II.

Zachary Collier and Barry Richard of CPRA, along with Quin Kinler of National Resources Conservation Service (NRCS), held an inspection of the BA-20 project on March 8, 2019. Weather conditions were mostly sunny with a light wind. The apparent water level at the time of inspection was approximately +1.0 ft., based on the staff gauge at monitoring station BA01-10. Photographs taken during the inspection are included in Appendix B of this report.

IV. Inspection Results

Construction Unit No. 1

Structure No. 12 – Rock rip-rap armored plug

Minor settlement has occurred, but the structure is in good condition. No maintenance needs were identified at this location.

Structure No. 13 – Rock rip-rap armored weir w/ boat bay

Settlement in the structure prevented a detailed inspection of the weir. Signs and timber supports were generally in good condition. No maintenance will be required at this time.

Structure No. 14 – Rock rip-rap armored plug

Structure was in good condition, with some settlement noted. There is currently no need for maintenance of this structure.

Structure No. 15 – Rock rip-rap weir w/ boat bay

The original weir was converted to a rock plug structure as part of the work effort for Construction Unit 4. No defects were noted during the inspection.

Structure No. 16 – Rock rip-rap channel plug

Rip-rap and warning signs appeared to be in good condition. No immediate maintenance requirements were identified at this structure.

Structure No. 17 – Rock rip-rap channel plug

Plug appeared to be in good condition, with no maintenance needed at this time.
Structure No. 19 – Rock rip-rap weir w/ boat bay

Weir has experienced some settlement, but is performing as designed. Signs and timber supports were generally in good condition. No maintenance will be required at this time.

Structure No. 20 – Rock rip-rap armored plug

The rock plug was heavily vegetated at the time of inspection, but appeared to be in good condition. No maintenance needs were identified at this location.

Structure No. 21 – Rock rip-rap armored plug

No significant defects were noted. Structure is generally in good condition and requires no maintenance at this time.

Construction Unit No. 2

Structure No. 22 A – Canal bank stabilization

The structure appeared to be in good condition. No immediate maintenance concerns were noted at this site.

Structure No. 22 – Steel sheet pile weir w/ boat bay

No significant defects were noted on the visible portion of the structure. Warning signs and supports were in good condition. No maintenance is required at this time.

Bayou Rigolettes Bank Stabilization

The shoreline protection function is performing adequately in spite of previous settlement. This area should be monitored on future inspections, but no immediate maintenance is required.

Construction Unit No. 3

Bayou Perot Bank Stabilization

No significant changes were noted since the last inspection. The rock shoreline protection appeared to be in good condition, with minor settlement in some areas. The areas of lower elevation deserve continued observation on future inspections, but no maintenance needs were identified at this time.
Construction Unit No. 4

Concrete Panel Wall Shoreline Protection

No defects in the concrete panel wall sections were noted; the structure appeared to be in good condition. Minor damage/vandalism to some warning signs are noted, as in previous inspections, and one sign was missing, but all other signs and timber supports are in place and performing as designed. No immediate maintenance needs were identified at this construction unit.

V. Conclusions

The project is protecting the shoreline as intended. Structures appeared to be in generally good condition, with the exception of the one missing sign along the concrete panel wall.

VI. Recommendations

All project features were serving their intended purpose. Monitor signs along concrete panel wall for any additional vandalism or missing signs. Continue to inspect and assess project conditions annually.

Immediate Repairs

- None at this time.

Programmed Maintenance

- None at this time.

VII. References


Appendix A

Project Features Map
Appendix B

Photographs
Photo #5 – Structure #19

Photo #6 – Panel Wall Shoreline Protection (CU4)
Appendix C

Three Year Budget Projection
### Current Approved O&M Budget

<table>
<thead>
<tr>
<th>Year</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
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<th>FY28</th>
<th>FY29</th>
<th>FY30</th>
<th>FY31</th>
<th>FY32</th>
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<tbody>
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<td>$4,309</td>
<td>$4,421</td>
<td>$4,536</td>
<td>$84,433</td>
<td>$500,924</td>
<td>$4,899</td>
<td>$5,027</td>
<td>$5,157</td>
<td>$111,609</td>
<td>$2,668,178</td>
<td>$5,570</td>
<td>$5,715</td>
<td>$2,18,766</td>
<td>$3,70,377</td>
<td>$3,462,144</td>
<td>$11,313</td>
<td>$11,498</td>
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<td>$0</td>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Total</td>
<td>$4,200</td>
<td>$4,309</td>
<td>$4,421</td>
<td>$4,536</td>
<td>$84,433</td>
<td>$500,924</td>
<td>$4,899</td>
<td>$5,027</td>
<td>$5,157</td>
<td>$111,609</td>
<td>$2,668,178</td>
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<td>$5,715</td>
<td>$2,18,766</td>
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<td>$11,313</td>
<td>$11,498</td>
<td>$11,667</td>
<td>$11,840</td>
</tr>
</tbody>
</table>

### Projected O&M Expenditures

<table>
<thead>
<tr>
<th>Project</th>
<th>Current FY2023 O&amp;M Expenditures</th>
<th>FY19-FY21 Incremental Funding Request Amount</th>
<th>FY20-FY21 Incremental Funding Request Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Inspection</td>
<td>$4,200</td>
<td>$4,309</td>
<td>$4,421</td>
</tr>
<tr>
<td>General Maintenance</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Surveys</td>
<td>$75,000</td>
<td>$100,000</td>
<td>$150,000</td>
</tr>
<tr>
<td>Sign Replacement</td>
<td>$0</td>
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<td>$0</td>
</tr>
<tr>
<td>Maintenance/Rehabilitation</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Construction</td>
<td>$1,178,809</td>
<td>$2,312,107</td>
<td>$3,445,410</td>
</tr>
<tr>
<td>Construction Oversight</td>
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<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Total</td>
<td>$4,200</td>
<td>$4,309</td>
<td>$4,421</td>
</tr>
</tbody>
</table>

### Remaining O&M Budget

**Current Year O&M Budget Funded:**
- State O&M: $4,200
- Corps Admin: $0
- Federal S&A: $0
- Total: $7,310,604

**Remaining Available O&M Budget:**
- $6,023,683

**Total Projected Project Life Budget Request Amount:**
- $65,046
Appendix D

Field Inspection Forms
## MAINTENANCE INSPECTION REPORT CHECK SHEET

**Project No. / Name:** BA-20 Jonathan Davis Wetland  
**Date of Inspection:** 03/08/2019  
**Time:** 9:30 AM  
**Structure No.** Construction Unit No.1 - Site No. 12  
**Inspector(s):** Collier, Richard, Kinler

**Structure Description:** Rock rip-rap armored plug  
**Water Level**  
- Inside: N/A  
- Outside: +1.0 ft.

**Type of Inspection:** Annual  
**Weather Conditions:** Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td></td>
<td>No change since last inspection; maintenance not required at this time.</td>
</tr>
<tr>
<td>Armored plug</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td>No change since last inspection; maintenance not required at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**

Structure Description: 294 linear ft. of rock rip-rap armored rock-filled plug located in a pipeline channel north of Bayou Perot, west of Bayou Barataria, and east of the GIWW. The crest of the weir was set at an elevation of +3.9 ft. NGVD. The rock-fill plug contains 2,689 tons of rock filled with 2,518 tons of rip-rap armor. Aluminum warning signs are also located through the rock embankment.
Structure Description: Rock rip-rap armored weir

Type of Inspection: Annual

Water Level
- Inside: N/A
- Outside: +1.0 ft.

Weather Conditions: Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td></td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Armored Weir</td>
<td>Fair</td>
<td></td>
<td></td>
<td>2</td>
<td>Structure has experienced some settlement, but maintenance is not required at this time.</td>
</tr>
</tbody>
</table>

Construction Unit No.1

Structure Description: 300 linear ft. of rock rip-rap armored rock filled weir with a 50 ft. wide boat bay located north of Bayou Perot and Site 12, west of Bayou Barataria, and east of the GIWW. The crest of the weir is set at an elevation of +1.0 ft. NGVD. The invert of the boat bay is set at an elevation of -5.0 ft NGVD. Rock wingwalls were constructed to an elevation of +3.6 ft NGVD. On the west side and +4.0 ft. NGVD on the east side of the weir. The rock filled weir contains 1,093 tons of rock filled with 772 tons of rip-rap armor. Aluminum warning signs are located adjacent to the structure.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: **BA-20 Jonathan Davis Wetland**  
Date of Inspection: **03/08/2019**  
Time: **9:30 AM**  
Inspector(s): Collier, Richard, Kinler

Structure No. Construction Unit No.1 -Site No. 14  
Structure Description: **Rock rip-rap armored plug**  
Water Level Inside: **N/A**  
Outside: **+1.0 ft.**  
Weather Conditions: **Mostly sunny, light wind**

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Good</td>
<td></td>
<td></td>
<td></td>
<td>Slight settlement noted, but no repairs needed at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**  
Structure Description: 138 linear ft. of rock rip-rap armored rock filled channel plug located in a pipeline channel north of Bayou Perot, west of Bayou Barataria and east of GIWW and Site 13. The crest of the plug was constructed to an elevation of +3.2 ft. NGVD. The rock-fill plug contains 2,580 tons of rock filled with 1,346 tons of rock rip-rap armor. Aluminum warning signs are located through the rock embankment.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

<table>
<thead>
<tr>
<th>Project No. / Name: <strong>BA-20 Jonathan Davis Wetland</strong></th>
<th>Date of Inspection: 03/08/2019</th>
<th>Time: 9:30 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure No. Construction Unit No.1 - Site No. 15</td>
<td>Inspector(s): Collier, Richard, Kiner</td>
<td></td>
</tr>
<tr>
<td>Structure Description: Rock rip-rap armored weir w/ boat bay</td>
<td>Water Level: Inside: N/A, Outside: +1.0 ft.</td>
<td></td>
</tr>
<tr>
<td>Type of Inspection: Annual</td>
<td>Weather Conditions: Mostly sunny, light wind</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td>3</td>
<td>This structure was converted into a channel plug as part of the completed CU4 maintenance work.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**

Structure Description: 132 linear ft. of rock rip-rap armored weir with a 50 ft. wide boat bay located in a pipeline channel north of Bayou Perot, west of Bayou Barataria and east of the GIWW and Site 14. The crest of the rock weir was constructed to an elevation of +4.0 ft. NGVD. The invert of the boat bay is at an elevation of -3.0 ft. The rock filled weir contains 1,248 tons of rock filled with 728 tons of rock-rip armor. Two (2) aluminum warning signs are located through the rock armored embankment on each side of the boat bay.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: **BA-20 Jonathan Davis Wetland**

Date of Inspection: **03/08/2019**

Time: **9:30 AM**

Inspector(s): Collier, Richard, Kinler

Structure No. Construction Unit No.1 - Site No. 16

Structure Description: **Rock rip-rap armored plug**

Water Level

Inside: N/A

Outside: +1.0 ft.

Type of Inspection: **Annual**

Weather Conditions: **Mostly sunny, light wind**

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Fair</td>
<td>None</td>
<td>N/A</td>
<td>4</td>
<td>No maintenance needs identified at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**

Structure Description: 303 linear ft. of rock rip-rap armored rock filled plug located in a pipeline channel north of Bayou Perot, west of Bayou Barataria, east of the GIWW and Site 15. The crest of the plug was constructed to an elevation of +4.0 ft. NGVD. The rock fill plug contains 6,483 tons of rock filled with 1,766 tons of rock rip-rap armor. Two (2) aluminum warning signs are located through the rock plug embankment.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: **BA-20 Jonathan Davis Wetland**

Structure No.  Construction Unit No.1 - Site No. 17

Structure Description: **Rock rip-rap armored plug**

Date of Inspection: **03/08/2019**  
Time: **9:30 AM**

Inspector(s): Collier, Richard, Kinler

Water Level  
Inside: N/A  
Outside: +1.0 ft.

Type of Inspection: **Annual**  
Weather Conditions: Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td>No maintenance is required at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**

Structure Description: 197 linear ft. of rip-rap armored rock plug located in a pipeline channel north of Bayou Perot, west of Bayou Barataria, and east of the GIWW. The crest of the plug was constructed to an elevation of +3.8 ft. NGVD. The rock-fill plug contains 2,253 tons of rock filled with 1,201 tons of rock rip-rap armor. Aluminum warning signs supported by galvanized pipe are located through the rock embankment.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

**Project No. / Name:** BA-20 Jonathan Davis Wetland  
**Date of Inspection:** 03/08/2019  
**Time:** 9:30 AM  
**Inspector(s):** Collier, Richard, Kinler

**Structure No.** Construction Unit No.1 - Site No. 19  
**Inspection Description:** Rock rip-rap armored weir  
**Water Level**  
Inside: N/A  
Outside: +1.0 ft.

**Type of Inspection:** Annual  
**Weather Conditions:** Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
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<tbody>
<tr>
<td>Signage and supports</td>
<td>Fair</td>
<td>See remarks</td>
<td>Minor</td>
<td>5</td>
<td>Signage replaced since last inspection; no maintenance needs were identified.</td>
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<tr>
<td>Armored Weir</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td>5</td>
<td>No change since last inspection; no maintenance needs were identified.</td>
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**Construction Unit No.1**

Structure Description: 239 linear ft. of rock rip-rap armored rock filled fixed crest weir with a 60 ft. wide boat bay located in a pipeline channel east of the GIWW, north of Bayou Perot, and west of Bayou Barataria. The crest of the weir was constructed to an elevation of +1.9 ft. NGVD on the north side and +2.0 ft. NGVD on the south. The boat bay invert was constructed to an elevation of -2.5 ft. NGVD. The rock-fill plug contains 1,014 tons of rock filled with 572 tons of rock rip-rap armor. Aluminum warning signs are located on each side of the barge bay through the rock embankment.
## Maintenance Inspection Report Check Sheet

**Project No./Name:** BA-20 Jonathan Davis Wetland  
**Date of Inspection:** 03/08/2019  
**Time:** 9:30 AM  
**Inspector(s):** Collier, Richard, Kinler

### Structure Description: Rock rip-rap armored plug

- **Water Level:** Inside: N/A  
- **Type of Inspection:** Annual  
- **Weather Conditions:** Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td></td>
<td>No change since previous inspection; maintenance is not required at this time.</td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td>No change since previous inspection; maintenance is not required at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**

- **Structure Description:** 170 linear ft. of rock rip-rap armored rock filled plug located north of Bayou Rigolettes, west of Bayou Barataria, and east of Bayou Perot. The plug crest was constructed to an elevation of +4.0 ft. NGVD. The rock-fill plug contains 1,829 tons of rock filled with 795 tons of rock rip-rap armor. Two (2) aluminum warning signs are located on each end of the structure through the armored rock plug embankment.
MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: **BA-20 Jonathan Davis Wetland**  
Structure No.  
Construction Unit No.1 -Site No. 21  
Structure Description: Rock rip-rap armored plug  
Type of Inspection: Annual  
Type of Inspection:  
Weather Conditions: Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
<th>Condition</th>
<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armored Plug</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td>Maintenance is not required at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.1**  
Structure Description: 83 linear ft. of rock rip-rap armored rock filled plug located north of Bayou Rigolettes, west of Bayou Barataria, and east of Bayou Perot. The plug crest was constructed to an elevation of +4.0 ft. NGVD. The rock-fill plug contains 285 tons of rock filled with 220 tons of rock rip-rap armor. Two (2) aluminum warning signs supported by galvanized pipe are located on each end of the structure through the rock embankment.
## MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: **BA-20 Jonathan Davis Wetland**  
Date of Inspection: **03/08/2019**  
Time: **9:30 AM**  
Inspector(s): **Collier, Richard, Kinler**

Structure No.  
Construction Unit No.2 - Site No. 22  
Water Level: Inside: N/A  
Outside: +1.0 ft.

Type of Inspection: Annual  
Weather Conditions: Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
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<th>Physical Damage</th>
<th>Corrosion</th>
<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Bulkhead</td>
<td>Good</td>
<td>None</td>
<td>Minor</td>
<td>N/A</td>
<td>No significant defects noted. Structure does not require maintenance at this time.</td>
</tr>
<tr>
<td>Handrails, Hardware, etc.</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Earthen Wingwalls</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Rock Armored Earthen Embankment</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Construction Unit No.2**

Structure Description: 58 linear ft. of steel sheet pile bulkhead with a crest elevation of +1.95 ft. NGVD and a 24’ - 8-1/2” wide boat bay with a crest elevation of -0.93 ft. NGVD located off of Bayou Regolettes, west of Bayou Barataria and east of GIWW. The structure consists of a steel sheet pile weir with 1,426 square feet of sheet piling set at +1.95 ft. NGVD. At the bottom the boat bay, is a 1.5 ft. thick rock rip-rap scour pad section with an invert of -0.93 ft. NGVD. This structure ties into structure 22A on the west side. Aluminum warning signs supported by 12” diameter timber piles are located at the entrance of the boat bay.
<table>
<thead>
<tr>
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<th>Photo #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock Armored Bank</td>
<td>Good</td>
<td>None</td>
<td></td>
<td></td>
<td>No maintenance needs were identified.</td>
</tr>
<tr>
<td>Earthen Embankment</td>
<td>Good</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Construction Unit No.2**

Structure Description: Canal bank stabilization consisting of 1,385 linear ft. of rock rip-rap protection on the west bank of the access channel at the Baltazaar Point Subdivision. The rip-rap was constructed to an elevation of +3.0 ft. NGVD.
MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: **BA-20 Jonathan Davis Wetland**  
Date of Inspection: 03/08/2019  
Time: 9:30 AM  
Inspector(s): Collier, Richard, Kinler

Structure No.  Construction Unit No.2  
Structure Description: **Rock dike along Bayou Rigolettes**  
Water Level  
Inside: N/A  
Outside: +1.0 ft.  
Weather Conditions: Mostly sunny, light wind

<table>
<thead>
<tr>
<th>Item</th>
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<th>Photo #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Rock Dike</td>
<td>Good; see remarks</td>
<td></td>
<td></td>
<td></td>
<td>Minor settlement observed in some areas, no repairs needed at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.2**  
Structure Description: The rock dike consist of 3,967 linear ft. of rock dike with a 6 ft. top width and a crest elevation of +3.5 ft. NGVD. The shoreline stabilization extends from Site 22A west to Structure No.20.
**MAINTENANCE INSPECTION REPORT CHECK SHEET**

Project No. / Name: **BA-20 Jonathan Davis Wetland**  
Date of Inspection: 03/08/2019  
Time: 9:30 AM

Structure No.  Construction Unit No.3  
Inspector(s): Collier, Richard, Kinler

Structure Description: **Rock dike along Bayou Perot**  
Water Level  
Inside: N/A  
Outside: +1.0 ft.

Type of Inspection: Annual  
Weather Conditions: **Mostly sunny, light wind**

<table>
<thead>
<tr>
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<th>Photo #</th>
<th>Observations and Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock Dike</td>
<td>Good; see remarks</td>
<td>None</td>
<td>N/A</td>
<td>1</td>
<td>Minor settlement observed in some areas, no repairs needed at this time.</td>
</tr>
</tbody>
</table>

**Construction Unit No.3**  
Structure Description: The rock dike consist of 13,088 linear ft. of rock dike with a 6 ft. top width and a crest elevation of +3.5 ft. NGVD. The shoreline stabilization extends from Site 12 west to the Gulf Intracoastal Waterway.
### MAINTENANCE INSPECTION REPORT CHECK SHEET

**Project No. / Name:** **BA-20 Jonathan Davis Wetland**  
**Date of Inspection:** 03/08/2019  
**Time:** 9:30 AM  
**Inspector(s):** Collier, Richard, Kinler

**Structure No.** Construction Unit No. 4  
**Structure Description:** Concrete panel wall  
**Water Level**  
Inside: N/A  
Outside: +1.0 ft.  
**Weather Conditions:** Mostly sunny, light wind

**Type of Inspection:** Annual

<table>
<thead>
<tr>
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<th>Photo #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Signage and supports</td>
<td>Good</td>
<td>See remarks</td>
<td>Minor</td>
<td>6</td>
<td>Some fading noted; minor spray-paint vandalism to border of one sign was observed, and one sign was missing. Sign faces and text were legible; no repairs needed at this time.</td>
</tr>
<tr>
<td>Concrete wall panels, piles, hardware</td>
<td>Good</td>
<td>None</td>
<td>None</td>
<td>6</td>
<td>No defects noted; structure was performing as designed.</td>
</tr>
<tr>
<td>Rock Dike</td>
<td>Good</td>
<td>None</td>
<td>N/A</td>
<td>6</td>
<td>No defects noted; structure was performing as designed.</td>
</tr>
</tbody>
</table>

**Construction Unit No.4**  
**Structure Description:** The wall consists of approx. 12,850 linear ft. of pre-cast concrete wall sections supported by 848 pre-cast concrete piles, in addition to approx. 4,290 linear feet of rock rip-rap bank stabilization/shoreline protection. C.U. #4 extends across the northern edge of Bayou Rigolettes and Bayou Perot, from just east of Structure #12 to Structure #20.