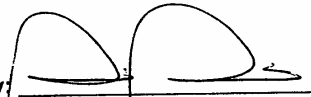


**COMPLETION REPORT  
FOR  
MAINTENANCE/REPAIR  
FRESHWATER BAYOU PROJECTS  
(ME-04, ME-13 & TV-11)  
AND  
VERMILION RIVER CUTOFF  
(TV-03)**

**PREPARED FOR:  
STATE OF LOUISIANA  
DEPARTMENT OF NATURAL RESOURCES  
POST OFFICE BOX 62027  
LAFAYETTE, LOUISIANA 70506-2027**

**PREPARED BY:  
ACADIAN ENGINEERS  
& ENVIRONMENTAL CONSULTANTS INC.  
POST OFFICE BOX 1126  
EUNICE, LOUISIANA 70535  
337/457-1492**

Prepared by:



**Andre' Aucoin, P.E.**

**Dated: March, 2006**

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VERMILION RIVER CUTOFF  
(TV-03)**

**1.0 PRIME CONTRACTOR**

Luhr Brothers, Inc.  
Post Office Box 50  
Columbia, Illinois 62236

Sub-Office  
Luhr Brothers, Inc.  
Post Office Box 7886  
Alexandria, Louisiana 71306-7886  
Phone: 318/487-9263

**2.0 SIGNIFICANT DATES/AMOUNTS**

DESCRIPTION	DATE
Contract Award	July 13, 2005
Pre-Construction Conference	July 29, 2005 Abdalla Hall 635 Cajun Dome Boulevard
Notice to Proceed	July 27, 2005
Commencement Date	July 27, 2005
Date Fixed for Completion	December 26, 2005
Actual Completion Date	December 15, 2005
Original Contract Amount	\$1,663,293.00
Actual Contract Amount	\$1,954,140.05

### 3.0 SUBCONTRACTOR

None.

### 4.0 ITEMS OF WORK

Item Number	Items of Work	Final Quantity	Unit Price	Final Amount	% Over or Under
1	Mob/Demob				
1a	Mob/Demob (ME-4)	Lump Sum	10,000.00	10,000.00	0%
1b	Mob/Demob (ME-13)	Lump Sum	10,000.00	10,000.00	0%
1c	Mob/Demob (TV-11)	Lump Sum	10,000.00	10,000.00	0%
1d	Mob/Demob (TV-03)	Lump Sum	10,000.00	10,000.00	0%
2	Stone-Dike Repairs				
2a	ME-4	21,370	21.65	462,660.50	+ 13.3%
2b	ME-13	20,987	21.65	454,368.55	+ 21.9%
2c	TV-11				
2c-1	Reach I	11,211	21.65	242,718.15	112.3%
2c-2	Reach II	29,004	21.85	633,737.40	3.5%
2d	TV-03	5,573	21.65	120,655.45	4.6%

### 5.0 EQUIPMENT

4600 Dragline L12255  
88B Dragline L1224405  
L-1103 Spud Barge  
L-1101 Spud Barge  
L-1100 Spud Barge  
L-1029 Spud Barge  
1985 Spud Barge  
L-1031 Office Barge

L-708 Office Barge  
LB - 118 Crew Boat  
LB - 117 Crew Boat  
LB - 55 Survey Boat  
L - 855 Survey Boat  
L - 14965 Backhoe  
MV Billy Gene  
MV Houston  
MV Twyla Marge

## 6.0 SUPPLY BARGES USED ON JOB SITE

Barge	Dimensions
L1021	200 x 40 x 10
L 1003	200 x 40 x 10
L 993	200 x 40 x 10
GD 896	195 x 35 x 10
L 986	200 x 40 x 10
L 1038	200 x 40 x 10
G 909	200 x 40 x 10
L 1076	200 x 40 x 10
GD 976	195 x 35 x 10
GD 910	195 x 35 x 10
L 1075	200 x 40 x 10
GD 0103	200 x 40 x 10
L 1041	200 x 40 x 10
L 1033	200 x 40 x 10
GD 978	195 x 25 x 10
L 1025	200 x 40 x 10
L 1044	200 x 40 x 10
L 1050	200 x 40 x 10
L 1027	200 x 40 x 10
L 989	200 x 40 x 10
L 1077	200 x 40 x 10
L 1032	200 x 40 x 10
L 1005	200 x 40 x 10
L 988	200 x 40 x 10
GD 0101	200 x 40 x 10
L 1074	200 x 40 x 10
L 1078	200 x 40 x 10
GD 2012	195 x 35 x 10

Barge	Dimensions
L 1048	200 x 40 x 10
L 1035	200 x 40 x 10
L 1047	200 x 40 x 10
L 1062	200 x 40 x 10
L 1016	200 x 40 x 10
L 1073	200 x 40 x 10
GD 916	195 x 35 x 10
GD 2001	195 x 35 x 10
RG 195	195 x 35 x 10
L 1020	200 x 40 x 10
GD 0108	200 x 40 x 10
L 1072	200 x 40 x 10
L 1049	200 x 40 x 10
GD 0110	200 x 40 x 10
GD 0105	200 x 40 x 10
GD 0106	200 x 40 x 10
L 1023	200 x 40 x 10
GD 0104	200 x 40 x 10
L 1034	200 x 40 x 10

#### 7.0 SIGNIFICANT EVENTS - START/FINISH/PROGRESS

The Notice to Proceed was issued for a start date on or before July 27, 2005. The Contractor began his mobilization process on that date and ultimately began placing 1,000 Lb. stone at the Vermilion River Cutoff Bankline Stabilization Project (TV-03) on August 16, 2005. The Contractor placed 5,573 tons of 1,000 Lb. stone intermittently over 4,458 Linear Feet (from Station 5+00 thru Station 65+55).

The Contractor then began working on Reach I of the Freshwater Bayou Shoreline Stabilization (TV11-RI) on August 20, 2005. The Contractor placed 1,000 Lb. stone at TV11-RI from August 20, 2005 thru August 22, 2005 and returned to place additional 1,250 Lb. stone on December 13, 2005 and December 14, 2005. A total of 11,128 tons of stone was placed intermittently over 3,960 Linear Feet at TV11-RI.

The Contractor began placing 1,250 Lb. stone at the Bankline Stabilization Project (ME-13) on August 21, 2005 thru September 2, 2005 and returned to place additional 1,250 Lb. stone on December 11, 2005 and December 13, 2005. A total of 20,892 tons of 1,250 Lb. stone was placed intermittently over 9,130 Linear Feet (from Station 13+50 thru Station 211+00) at the ME-13 project location.

Upon completion of the first phase of Bankline Stabilization at ME-13, the Contractor began working on the Freshwater Bayou Wetland Protection (ME-4) project area. The Contractor began placing 1,250 Lb. stone at project area ME-4 on September 2, 2005 thru September 8, 2005 and returned to place additional 1,250 Lb. stone on December 8, 2005 and December 11, 2005. A total of 21,370 tons of 1,250 Lb. stone was placed intermittently over 11,426 Linear Feet (from Station 30+00 thru Station 259+50) on the Freshwater Bayou Wetland Protection (ME-13) project location.

Upon completion of the first phase of ME-4 stone placement, the Contractor began placing 1,500 Lb. stone at Reach II of the Freshwater Bayou Shoreline Stabilization Project (TV11-RII) on September 9, 2005. The Contractor placed 1,500 Lb. stone at TV11-RII from September 9, 2005 thru October 2, 2005 and returned to place additional 1,500 Lb. stone on December 12, 2005. A total of 29,004 tons of 1,500 Lb. stone was placed intermittently over 10,654 Linear Feet (from Station 428+00 thru Station 587+00) Reach II of the Freshwater Bayou Shoreline Stabilization project area (TV11-RII).

**8.0 MODIFICATIONS AND CHANGES**

Two (2) project Change Order's were executed as part of the Freshwater Bayou Area Projects (ME-04, ME-13, TV-03 and TV-11). Luhr Brothers, Inc. executed Change Order No. 1 on October 12, 2005 with the Louisiana Department of Natural Resources - Coastal Engineering Division and executed the Final Project Adjustment through Change Order No. 2 on December 20, 2005. The amounts and justifications for the Change Order's are as follows:

**CHANGE ORDER NO. 1**

Adjustment of Plan Quantities

Item No.	Description	Unit	Previous Adjusted Quantity (CO #1)	Final Adjusted Quantity	Unit Price	Amount Under Run
2a	ME-04 Dike Repairs	Tons	18,862	21,370	\$21.65	\$54,298.20
2b	ME-13 Dike Repairs	Tons	17,224	20,987	\$21.65	\$81,468.95
2c	TV-11 Dike Repairs					
2c-1	Reach I	Tons	5,281	11,211	\$21.65	\$128,384.50
2c-2	Reach II	Tons	28,025	29,004	\$21.85	\$21,391.15
2d	TV-03 Dike Repairs	Tons	5,328	5,573	\$21.65	\$5,304.25

JUSTIFICATION: This proposed Change Order No. 1 is needed to the fact that various reaches of the rock dikes have deteriorated from the time the design surveys were performed to present. The additional quantities are needed to properly address needed repairs. All proposed Change Order No. 1 price quotes were negotiated with the Contractor in an October 12, 2005 letter and are found to be fair and reasonable.

**CHANGE ORDER NO. 2**

Final Adjustment of Plan Quantities:

Item No.	Description	Unit	Previous Adjusted Quantity (CO #1)	Final Adjusted Quantity	Unit Price	Amount Under Run
2b	ME-13 Dike Repairs	Tons	20,987	20,892	\$21.65	\$2,056.75
2c	TV-11 Dike Repairs					
2c-1	Reach I	Tons	11,211	11,128	\$21.65	1,796.95

JUSTIFICATION: Final Adjustment of Plan Quantities.



**9.0 UTILITY CROSSINGS**

Facility/utility owners were notified prior to work in their area to minimize any damage or potential conflicts during construction. There are no recordable utility conflicts.

**10.0 STONE GRADATION**

Stone used on the project had the following gradation:

<b>VERMILION RIVER CUTOFF (TV-03)</b>	
<b>Stone Weight in Lbs.</b>	<b>Percent Finer by Weight</b>
1,000 - 400	100
430 - 200	50
210 - 60	15
<b>FRESHWATER BAYOU ME-4, ME-13 &amp; TV-11-RI</b>	
1,250 - 500	100
500 - 250	50
250 - 80	15
<b>FRESHWATER BAYOU TV-11-RII</b>	
1,500 - 600	100
650 - 300	50
330 - 100	15

**11.0 QUALITY CONTROL**

Quality control at the job site was administered by Mr. Billy Topper. The Contractor's construction performance and Quality Control were highly satisfactory.

## **12.0 QUALITY ASSURANCE**

Quality assurance was administered by Mr. James Ducote, P.E., P.L.S., Mr. Raymond Plauche, Mr. Don Gladfelter, P.L.S. and Mr. Andre' Aucoin, P.E. of Acadian Engineers & Environmental Consultants Inc. (Acadian). The three-phase inspection system was stressed and followed throughout the Contract period.

## **13.0 ACCIDENT/SAFETY**

The Contractor provided a Safety Plan which was utilized at the job site. Daily inspections towards safety were conducted by QC and QA personnel daily. There were no accidents or loss time injuries on the project. A total of approximately one thousand (1,000) manhours were expended on the project without a loss time injury.

## **14.0 FINAL ACCEPTANCE**

A final inspection was conducted by employees from the Louisiana Department of Natural Resources, the Natural Resource Conservation Service, Luhr Brothers, Inc. and Acadian on December 15, 2005. The project was accepted on that date and the Contractor demobilized all equipment and supply barges from the job site.