Operations Division
Eastern Evaluation Section

SUBJECT: EDD 20-040-0451

NOAA Fisheries
Baton Rouge Field Office
c/o Louisiana State University
Baton Rouge, Louisiana 70803-7535

Gentlemen:

Enclosed is a permit dated this date, subject as above, authorizing work under the Department of the Army permit program.

You are again reminded that any work not in accordance with the approved plans is subject to removal regardless of the expense and the inconvenience that such removal may involve and regardless of the date when the discrepancy is discovered.

Your attention is directed to all the terms and conditions of the approval. In order to have the work approved in accordance with the issued permit, all terms and conditions of the permit and plans shown on the drawings attached thereto must be rigidly adhered to.

It is necessary that you notify the District Engineer, Attention: Eastern Evaluation Section, in writing, prior to commencement of work and also upon its completion. The notification must include the permittee's name, as shown on the permit, and the permit number. Please note the expiration date on the permit. Should the project not be completed by that date, you may request a permit time extension. Such requests must be received before, but no sooner than six months before, the permit expiration date and must show the work completed and the reason the project was not finished within the time period granted by the permit.

A copy of Page 1 of the permit (ENG Form 1721) must be conspicuously displayed at the project site. Also, you must keep a copy of the signed permit at the project site until the work is completed.

Sincerely,

Pete J. Serio
Chief, Eastern Evaluation Section

Enclosures
DEPARTMENT OF THE ARMY PERMIT

Permittee: NOAA Fisheries
Permit No. EDD 20-040-0451
Issuing Office: New Orleans District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

PROJECT DESCRIPTION: Excavation and deposition of fill material (and possible placement of temporary sheet piling or sunken barges), for shoreline stabilization and marsh creation, to implement the Chaland Headland Restoration CWPPRA Project (BA-38-2), in accordance with drawings attached in 14 sheets; sheet 13, dated July 29, 2003; sheet 5, dated October 9, 2003; sheets 8 thru 10, dated October 17, 2003; and sheets 1 thru 4; 6, 7; 11,12; and 14, dated November 17, 2003.

PROJECT LOCATION: On Chaland Headland (between Pas La Mer and Chaland Pass), approximately 48 nautical miles south-southeast of New Orleans, Louisiana, in Plaquemines Parish, and in the Gulf of Mexico, as shown on the attached drawings.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on APRIL 30, 2009. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

ENG FORM 1721, Nov 86 (33 CFR 325 (Appendix A))
e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant’s Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

x [Signature] 3/23/04
(PERMITEE) (DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Peter J. Serio, Chief Eastern Evaluation Section
for Peter J. Rowan, District Engineer

31 March 2004
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

[Signature]  [DATE]
Special conditions: EDD 20-040-0451

7. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction. This includes the use of water control structures, turbidity screens, etc., in water discharge areas.

8. All exposed soil and other fills must be stabilized and/or planted with appropriate marsh and dune species at the earliest practicable date.

9. All structural elements, such as sheet pile or sunken barges, must be removed prior to project completion.

10. Your use of the permitted activity must not interfere with the public’s right to free navigation on all navigable waters of the United States.

11. You must install and maintain at your expense, any safety lights and signals prescribed by the United States Coast Guard, through regulations or otherwise, on your authorized facilities.

12. Special attention must be given to properly marking and/or lighting any temporary obstructions to recreational and commercial fishing resulting from project construction, and to advertising construction periods to these interested parties to the greatest extent practicable.

13. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

14. If the proposed project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc..) in the waterway, you are advised to notify the Eighth Coast Guard District so that a Notice to Mariners, if required, may be prepared. Notification, with a copy of your permit approval and drawings, should be mailed to the Commander (m), Eighth Coast Guard District, ATTN: Vessel Traffic Management Branch, 501 Magazine Street, New Orleans, Louisiana 70130-3396, about 1 month before you plan to start work. Telephone inquiries can be directed to (504) 589-4686.

15. This permit does not obviate the permittee from obtaining any required permits or approvals from the Louisiana Department of Wildlife and Fisheries or the US Fish and Wildlife Service.
CHALAND HEADLAND RESTORATION
(BA-38-2)
CWPPRA PROJECT

GULF OF MEXICO

PROJECT AREA

QUATRE BAYOU BORROW AREA

QUATRE BAYOU FILL AREA

CHALAND HEADLAND

GULF OF MEXICO

PROJECT FILL AREA

NOTE:
SOURCE OF MAP: LOUISIANA GIS CD;
A DIGITAL MAP OF THE STATE, 2 CD SET.

SHEET INDEX

<table>
<thead>
<tr>
<th>NO.</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LOCATION MAP</td>
</tr>
<tr>
<td>2-3</td>
<td>PROJECT PLAN VIEW</td>
</tr>
<tr>
<td>4</td>
<td>QUATRE BAYOU BORROW AREA BATHYMETRY</td>
</tr>
<tr>
<td>5-8</td>
<td>QUATRE BAYOU BORROW AREA CROSS SECTIONS</td>
</tr>
<tr>
<td>7-9</td>
<td>FILL CROSS SECTIONS</td>
</tr>
<tr>
<td>10</td>
<td>BARGE ACCESS CANAL CROSS SECTION A-A' (TYP.)</td>
</tr>
<tr>
<td>11</td>
<td>TYPICAL CANAL Closure PROFILE B-B' (TYP.)</td>
</tr>
<tr>
<td>12</td>
<td>TYPICAL CANAL Closure CROSS SECTION C-C' (TYP.)</td>
</tr>
<tr>
<td>13</td>
<td>BREACH Closure CROSS SECTION D-D'</td>
</tr>
<tr>
<td>14</td>
<td>BREACH Closure PROFILE E-E'</td>
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</tbody>
</table>
LOCATION OF INFRASTRUCTURE (WELLHEADS, PIPELINES, ETC.) ARE FOR INFORMATIONAL PURPOSES ONLY TO DEMONSTRATE COMPLEXITY OF AREA. CONTRACTOR SHALL CONFIRM LOCATIONS AND REFER TO MAGNETOMETER SURVEY PREPARED BY MPH (MORRIS P. HEBERT, INC.). IF INFRASTRUCTURE IS ENCOUNTERED, CONSTRUCTION SHALL IMMEDIATELY CEASE.

NOTES:
1. PHOTOGRAPH TAKEN IN 2003
2. COORDINATES SHOWN HEREIN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN F.E.T., NAD 1983.
3. LAND EQUIPMENT/MARSH BUGGY ACCESS WILL BE RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACKING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.
4. HYDRAULIC FILL OR SEDIMENTATION SHALL NOT EXCEED 6.5' OF FALL WITHIN WATER DISCHARGE AREA.

LEGEND:

- WETLAND HYDRAULIC FILL
- PRIMARY DIKE
- DUNE CREST
- FILL SOURCE FOR PRIMARY DIKE & TIDAL FEATURE
- SUGGESTED STAGING AREA
- LAND REWORK AREA
- SETTLEMENT PLATE
- SAND FENCING
- EXISTING INFRASTRUCTURE
- SIGN TO BE POSTED

GRAPHIC SCALE IN FT

CHALAND HEADLAND RESTORATION (BA-38-3) CWPPRA PROJECT PLAN VIEW

COASTAL PLANNING & ENGINEERING, INC.
2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-0102 FAX (561) 391-0110
NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
   CONTOURS SHOWN HEREON ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE ON 8/6/02 - 8/15/02.

LEGEND:
- o DENOTES CPE 2002 VIBRACORE LOCATION
- o DENOTES 2002 MAGNETOMETER HIT
- o DENOTES BSS CORE LOCATIONS (FROM USGS FILE REPORT NO. 01-384, DATED SEPTEMBER 2001, APPENDIX B CD ROM)
- o DENOTES MAGNETIC ANOMALY WITH BUFFER

REVOLUTIONS

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<th>DESCRIPTION</th>
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SHEET: 4
QUATRE BAYOU BORROW AREA
CROSS SECTION Q1-1'

LEGEND:
- QBVC-02-17: DENOTES CPE 2002 VIBRACORE LOCATION
- : BEACH COMPATIBLE SEDIMENTS
- : SURFACE SILT/CLAY LAYER (TO BE USED FOR MARSH CONSTRUCTION)
- : INTERMITTENT ACCOUSTIC REFLECTOR WITHIN SAND DEPOSIT

NOTES:
1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 4 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 88.

SCALE: 1" = 1000' HORIZONTAL
1" = 20' VERTICAL

CHALAND HEADLAND RESTORATION
QUATRE BAYOU BORROW AREA
Q1-Q1' CROSS SECTION
QUATRE BAYOU BORROW AREA
CROSS SECTION Q2-2'

LEGEND:
QBVC-02-17 DENOTES CPE 2002 VIBRACORE LOCATION
BEACH COMPATIBLE SEDIMENTS
SURFACE SILT/CLAY LAYER (TO BE USED FOR MARSH CONSTRUCTION)
NO DREDGE AREA - MAGNETIC ANOMALIES
INTERMITTENT ACoustIC REFLECTOR WITHIN SAND DEPOSIT

NOTES:
1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 4 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 88.

SCALE: 1"= 1000' HORIZONTAL
1"=20' VERTICAL

CHALAND HEADLAND RESTORATION
QUATRE BAYOU BORROW AREA
Q2-Q2' CROSS SECTION
CHALAND HEADLAND RESTORATION
(62-38-2) CWPPRA PROJECT
FILL CROSS SECTION CG25

LEGEND:

DENOTES WETLAND HYDRAULIC FILL
DENOTES ISLAND FILL
DENOTES PRIMARY DIKE
DENOTES EXCAVATED MARSH MATERIAL TO BE USED FOR PRIMARY DIKE

NOTE:
1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988

SCALE: 1" = 300' HORIZONTAL
1" = 15' VERTICAL

COASTAL PLANNING & ENGINEERING, INC.
2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-9116

PROFILE CG25
SEPT 2002 DESIGN
--- TOLERANCE

ELEVATION (FEET)

DISTANCE (FEET)

DISCHARGE AREA
PRIMARY DIKE
CONSTRUCTED MARSH ELEVATION (+2.5' NAVD)
SECONDARY DIKE
EL = +4.5' NAVD
EL = +4.5' NAVD
STA. 3+32.6
STA. 3+33.6
STA. 3+35.2
STA. 3+37.9
STA. 3+46.2
STA. 3+48.5

SAND FENCING
PROPOSED WETLAND HYDRAULIC FILL
TEMPORARY FLOATATION CANAL FOR CONSTRUCTION
BARGE AND FILL SOURCE FOR CONSTRUCTING OF PRIMARY DIKE
ISLAND FILL

NOTE:
1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988

SCALE: 1" = 300' HORIZONTAL
1" = 15' VERTICAL
ACCESS CANAL CROSS SECTION A-A' (TYPICAL)

NOTE:
1. ELEVATIONS SHOWN HEREON ARE IN FEET
   BASED ON NAVD 1988.
2. OVERDEPTH IS 0.5 FEET

LEGEND:
- DENOTES CONTAINMENT DIKE
- DENOTES WETLAND FILL

SCALE: 1" = 200' HORIZONTAL
1" = 10' VERTICAL
TEMPORARY SHEET PILE OR BARGE TO CLOSE BREACH AS NEEDED. TO BE REMOVED AFTER CLOSURE.

SECTION B-B'  
SEPT 2002 DESIGN

ELEVATION (FEET)

-15 -10 -5 0 5 10 15

DISTANCE (FEET)

-300 -250 -200 -150 -100 -50 0 50 100 150 200

TEMPORARY SHEET PILE OR BARGE TO CLOSE BREACH AS NEEDED. TO BE REMOVED AFTER CLOSURE.

BOTTOM PROFILE APPROXIMATED

LEGEND:

FILL MATERIAL TO CLOSE CANAL

DENOTES EXCAVATED MARSH MATERIAL TO BE USED FOR CANAL CLOSURE

NOTE:

1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

CHALAND HEADLAND RESTORATION PROJECT (BA-38-2) CWPPRA PROJECT CLOSURE PROFILE B-B' (TYP.)
BREACH CLOSURE CROSS SECTION D-D'

NOTES:
1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
2. DEPTH AND WIDTH OF BREACH VARIES.

LEGEND:
- FILL MATERIAL TO CLOSE BREACH

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

CHALAND HEADLAND RESTORATION (BA-38-2) CWPPRA PROJECT
BREACH CLOSURE CROSS SECTION D-D'

2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8182 FAX (561) 391-9116
BREACH CLOSURE PROFILE E-E'

NOTE:
1. ELEVATIONS SHOWN HEREON ARE IN FEET BASED ON NAVD 1988.
2. DEPTH AND WIDTH OF BREACH VARIES.

LEGEND:
- FILL MATERIAL TO CLOSE BREACH
- BOTTOM PROFILE APPROXIMATED

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL

COASTAL PLANNING & ENGINEERING, INC.
2481 N.W. BOCA RATON BLVD.
BOCA RATON, FL 33431
PH. (561) 391-8102 FAX (561) 391-8118

CHALAND HEADLAND RESTORATION
(8A-38-2) CWPPRA PROJECT
BREACH CLOSURE PROFILE E-E'