Operation Division
Eastern Evaluation Section

SUBJECT: MVN-2010-2720-EFF
(Pelican Island BA-38 -Modification 1)

National Marine Fisheries Service
LSU, South Stadium Drive
Baton Rouge, Louisiana 70803
Attn: Mr. Rick Hartman

Revised drawings attached in twenty four sheets, furnished with your letter dated
February 23, 2011, covering the inclusion of approximately 77 acres of additional marsh
platform, retention dike modifications, additional borrow canal, decreased beach fill volume,
modified beach and dune alignment, and tie-in at the Empire Waterway rock jetty; all for
constructing the Pelican Island (BA-38) CWPPRA project, located east of the Empire Waterway
on the Gulf of Mexico, near Empire, Louisiana, within Plaquemines Parish. These plats hereby
supersede original drawings of your permit and are approved and will be included in your plans
for the work authorized by the Secretary of the Army in the permit dated August 13, 2009, from
the District Engineer at New Orleans, Louisiana.

The following special conditions are made supplemental to your authorization:

1. The applicant shall insure that the dredge contractor minimizes migration of dredge materials
into the Empire Waterway, during construction of the project.

2. The applicant shall immediately contact and consult with the US Fish and Wildlife Service
(USFWS) in the event that shorebird bird nesting is observed during construction activities.

3. Passive measures such as the placement of filter cloth or orange fencing material along the
beaches shall be carried out, in order to attempt discouragement of shorebird nesting. If deemed
unsuccessful, alternate measures such as dogs or continuous human presence should be attempted
in order to deter nesting. More aggressive methods of hazing (i.e. cannons, flares) may also be
applied, if found necessary.

4. Timing, persistence, organization, and diversity of abatement measures are crucial in deterring
shorebirds from establishing active nesting colonies. Abatement measures shall be overseen
and/or conducted by a certified wildlife biologist familiar with shorebird ecology and the
proposed deterrence methods. Abatement techniques shall be coordinated with the USFWS and
LA Department of Wildlife and Fisheries, prior to use.
5. To increase effectiveness of the nesting prevention program, it is recommended that a combination of abatement measures be employed. Additionally, the types of abatement measures as well as their special and temporal deployment should be varied frequently to reduce the chances of shorebirds becoming habituated to the deterrence methods.

6. Since this proposed activity occurs within an area impacted by the Deepwater Horizon Oil Spill, the permittee is required to contact the US Coast Guard, Unified Area Command Situation Cell (USCG) prior to commencement of work for the purpose of obtaining clearance to conduct any dredge and/or fill activities within affected areas as authorized by this permit action. Permittee should be prepared to provide location data and estimated duration of work activities when coordinating with the USCG. Telephone inquiries can be directed to 504-335-0957.

All other conditions to which the work is made subject remain in full force and effect.

A copy of this permit approval letter must be conspicuously displayed at the project site. Also, you must keep a copy of this signed letter, with attached drawings, at the project site until the work is completed.

The New Orleans District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete and return the attached Customer Service Survey or go to the survey found on our web site at http://per2.nwp.usace.army.mil/survey.html.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

[Signature]
Pete Serio
Chief, Regulatory Branch

for
Edward R. Fleming
Colonel, U.S. Army
District Commander

Enclosure
NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

NO EXCAVATION AREA UNLESS CONTRACTOR COORDINATES EXCAVATION IN THIS AREA WITH PIPELINE OWNERS (CONTRACTOR TO USE EXTREME CAUTION IN THIS AREA)

UPON COMPLETION OF THIS PROJECT, THE PRIMARY DIKES SHALL BE LEFT IN PLACE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PRIMARY DIKES DURING THE PROJECT AND SHALL PREVENT ANY BREACHES OF THE DIKES FOR THE DURATION OF THIS PROJECT.

NOTES:
1. PHOTOGRAPH TAKEN IN 2008.
2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, 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. MINOR ALIGNMENT CHANGES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.

LEGEND:
- MARSH HYDRAULIC FILL
- FILL SOURCE FOR PRIMARY DIKE
- SETTLEMENT PLATE
- PROBABLE OIL & GAS INFRASTRUCTURE
- PROJECT BASELINE
- SAND FENCING

PELICAN ISLAND RESTORATION (BA-38-1) CWPPRA PROJECT
PROJECT PLAN VIEW

DATE: 11/19/11

COASTAL PLANNING & ENGINEERING, INC.
123 Main Street, New Orleans, LA 70112
(504) 555-1234 • FAX: (504) 555-1234
www.CoastalPlanning.com
NOTES:
1. PHOTOGRAPH TAKEN IN 2008.
2. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
3. LAND EQUIPMENT/MARSH BUGGY ACCESS WILL BE RESTRICTED TO CONSTRUCTION AREAS ONLY. TRACING THROUGH EXISTING MARSH OUTSIDE THE PROJECT AREA IS PROHIBITED.
4. MINOR ALIGNMENT CHANGES THAT DO NOT IMPACT VEGETATED WETLANDS MAY BE EXECUTED IN THE FIELD.

LEGEND:
- MARSH HYDRAULIC FILL
- FILL SOURCE FOR PRIMARY DIKE
- SETTLEMENT PLATE
- PROBABLE OIL & GAS INFRASTRUCTURE
- PROJECT BASELINE
- SAND FENCING

COASTAL PLANNING & ENGINEERING, INC.

PELICAN ISLAND RESTORATION (BA-38-1) GWPPRA PROJECT
PROJECT PLAN VIEW
NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN HEREON ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); LOUISIANA GIS CD: 4 DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET BASED ON NAVD 88.

LEGEND:
- CPE 2002 VIBRACORE LOCATION
- CPE 2002 MAGNETOMETER HIT
- BSS CORE LOCATIONS (FROM USGS FILE REPORT NO. 01-384, DATED SEPTEMBER 2001, APPENDIX B CD ROM) MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINE LOCATION
- PRIMARY DREDGE AREA (SILT/CLAY/SAND)
- BATHYMETRIC CONTOUR

EAST EMPIRE VOLUME SUMMARY
- MARSH FILL = 2,431,000cy
- OVER DREDGE = 708,000cy
- TOTAL DREDGE VOL. = 3,139,000cy

WEST EMPIRE VOLUME SUMMARY
- MARSH FILL = 1,387,000cy
- OVER DREDGE = 529,000cy
- TOTAL DREDGE VOL. = 1,916,000cy

DATE: 11/17/03
BY: JRC

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COMPLIANCE NO. 7281.31 SHEET 4
NOTE:
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 ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW THE DESIGN CUT DEPTH.

LEGEND:
- EMVC-02-17 DENOTES CPE 2002 VIBRACORE LOCATION
- SILT/CLAYSAND (PRIMARY DREDGE AREA)
- SILT/CLAY Layer

SCALE: 1" = 1000' HORIZONTAL
1" = 20' VERTICAL
NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL): THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:
- CPE 2003 VIBRACORE LOCATION
- MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- BATHYMETRIC CONTOUR

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SANDY POINT NW BORROW AREA BATHYMETRY
NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN ARE IN FEET AND DEPICT THE FIRST SEISMIC REFLECTOR DERIVED FROM THE SEISMIC SURVEY CONDUCTED BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL), THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:
- MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- 1ST SEISMIC REFLECTOR CONTOUR
1. COORDINATES SHOWN HEREIN ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE; 2 CD SET; AND GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
SANDY POINT NW BORROW AREA
CROSS SECTION SP1-SP1'

NOTES:
1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 8-8 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1889 (NAVD 98).
4. BEACH COMPATIBLE SEDIMENTS DELINEATED FROM VIBRACORES. ADDITIONAL COMPATIBLE SEDIMENTS MAY BE PRESENT BELOW THE INTERMITTENT ACOUSTIC REFLECTOR.
5. SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
6. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:
- SPVC-03-30 DENOTES CPE 2003 VIBRACORE LOCATION
- MAXIMUM DEPTH OF EQUIPMENT
- BEACH COMPATIBLE SEDIMENTS
- SURFACE SILT/CLAY LAYER
- INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY

SCALE: 1" = 1000' HORIZONTAL
1" = 20' VERTICAL
SANDY POINT NW BORROW AREA CROSS SECTION SP2-SP2'

- Cut to -50 NAVD
- Cut to -45 NAVD
- SP2
- SP2'
- Post excavation slope 1V:1H (exaggerated for clarity)
- 1st Seismic Relector
- 2nd Seismic Relector
- Edge of borrow area

MAXIMUM DEPTH OF EQUIPMENT

DISTANCE FROM SP2 (FEET)

NOTES:
1. Vibracores may not fall directly on cross section line, but are located sufficiently close to represent similar material.
2. See Sheet 6-3 for location of cross section lines.
3. Elevations shown are in feet referenced to North American Vertical Datum of 1988 (NAVD 88).
4. Beach compatible sediments delineated from vibracores. Additional compatible sediments may be present below the intermittent acoustic reflector.
5. Seismic survey conducted may 2003 by CPE.
6. Maximum depth of equipment is 8 feet below design cut depth.

LEGEND:
- SPVC-03-03 denotes CPE 2003 vibracore location
- Beach compatible sediments
- Surface silt/clay layer
- Intermittent acoustic reflector within sand deposit as delineated from seismic survey

SCALE: 1"=1000' horizontal
1"=20' vertical

COASTAL PLANNING & ENGINEERING, INC.
PELICAN ISLAND RESTORATION
(BA-36-1) CWPPRA PROJECT
SANDY POINT NW BORROW AREA CROSS SECTIONS
SANDY POINT NW DISPOSAL SITE
CROSS SECTION DS1-DS1'

NOTE:
1. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:

OVERBURDEN DISPOSAL

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL

PELICAN ISLAND RESTORATION
(BA-38-1) CWPPRA PROJECT
SANDY POINT NW DISPOSAL AREA CROSS SECTION
NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN ARE IN FEET AND DERIVED FROM THE BATHYMETRIC SURVEY CONDUCTED BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (OPL); THE LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:
- DENOTES CPE 2003 VIBRACORE LOCATION
- DENOTES CPE 2005 VIBRACORE LOCATION
- DENOTES MAGNETIC ANOMALY MAGNETIC ANOMALY WITH BUFFER RECOMMENDED FOR INVESTIGATION OR AVOIDANCE
- PIPELINES
- BATHYMETRIC CONTOUR
OVERBURDEN DISPOSAL SITE
(MINIMUM DISPOSAL DEPTH:
EL= -25.0 NAVD)

SOUTHEAST
DISPOSAL SITE

LIMITS OF
DISCHARGE
PIPE

GULF
OF
MEXICO

NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA
SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN ARE IN FEET AND DEPICT THE FIRST SEISMIC
REFLECTOR DERIVED FROM THE SEISMIC SURVEY CONDUCTED
BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP
VIEWER CD, BY OILFIELD PUBLICATIONS LIMITED (CPL); THE
LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET.; AND
GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:
- DENOTES CPE 2003 VIBRACORE LOCATION
- DENOTES MAGNETIC ANOMALY
- MAGNETIC ANOMALY WITH BUFFER
  RECOMMENDED FOR INVESTIGATION
  OR AVOIDANCE
- PIPELINES
- 1ST SEISMIC REFLECTOR CONTOUR
OVERBURDEN DISPOSAL SITE
(MINIMUM DISPOSAL DEPTH:
EL. = -25.0 NAVD)

GULF OF MEXICO

NOTES:
1. COORDINATES SHOWN HEREON ARE BASED ON LOUISIANA
SOUTH STATE PLANE COORDINATE SYSTEM IN FEET, NAD 1983.
2. CONTOURS SHOWN ARE IN FEET AND DEPICT THE ELEVATION OF
THE SECOND SEISMIC REFLECTOR DERIVED FROM THE SEISMIC
SURVEY CONDUCTED BY CPE, MAY 2003.
3. PIPELINE LAYOUTS FROM: THE GULF OF MEXICO GIS MAP
VIEWER CD. BY OILFIELD PUBLICATIONS LIMITED (OPL); THE
LOUISIANA GIS CD: A DIGITAL MAP OF THE STATE, 2 CD SET; AND
GROUND TRUTHING BY CPE.
4. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

LEGEND:
DENOTES CPE 2005 VIBRACORE LOCATION
DENOTES MAGNETIC ANOMALY
MAGNETIC ANOMALY WITH BUFFER
RECOMMENDED FOR INVESTIGATION
OR AVOIDANCE
PIPPINES
2ND SEISMIC REFLECTOR CONTOUR

VOLUME SUMMARY
OVERBURDEN = 1,318,000cy
BEACH FILL = 3,889,000cy
OVER DREDGE = 445,000cy
TOTAL DREDGE VOL. = 8,632,000cy
DISPOSAL SITE VOL. = 1,627,000cy
SANDBY POINT SE BORROW AREA
CROSS SECTION SP5-SP5'

DISTANCE FROM SP5 (FEET)

NOTES:
1. VIBRACORES MAY NOT FALL DIRECTLY ON CROSS SECTION LINE, BUT ARE LOCATED SUFFICIENTLY CLOSE TO REPRESENT SIMILAR MATERIAL.
2. SEE SHEET 12-14 FOR LOCATION OF CROSS SECTION LINES.
3. ELEVATIONS SHOWN ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. BEACH COMPATIBLE SEDIMENTS Delineated from VibraCore.
5. SEISMIC SURVEY CONDUCTED MAY 2003 BY CPE.
6. MAXIMUM DEPTH OF EQUIPMENT IS 3 FEET BELOW DESIGN CUT DEPTH.

LEGEND:
SPVC-03-03 DENOTES CPE 2003 VIBRACORE LOCATION
SPVC-05-05 DENOTES CPE 2005 VIBRACORE LOCATION
BEACH COMPATIBLE SEDIMENTS
SURFACE SILTCLAY LAYER
INTERMITTENT ACOUSTIC REFLECTOR WITHIN SAND DEPOSIT AS DELINEATED FROM SEISMIC SURVEY

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

PELICAN ISLAND RESTORATION
(BA-38-1) CWPPRA PROJECT
SANDBY POINT SE BORROW AREA CROSS SECTIONS
NOTE:
ELEVATIONS SHOWN HEREON ARE IN FEET
BASED ON NAVD 1988.

LEGEND:
- MARSH FILL
- BEACH & DUNE FILL
- PRIMARY DIKE
- FILL SOURCE FOR PRIMARY DIKE
NOTE:
1. CROSS SECTION J1 VIEWED LOOKING WEST. CROSS SECTION J8 VIEWED LOOKING NORTH.
2. EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.
PROFILE J1

- Oct 2010 Survey
- Aug 2007 Survey
- Jetty Fill Template
- Jetty Fill Tolerance

MATCHLINE SHEET 24

MATCHLINE SHEET 26

6" Thick Marine Mattress

ARMS STONE

EL. = +3.5' NAVD

EL. = -1.5' NAVD

EXISTING GRADE

NOTE:

1. Cross section J1 viewed looking west. Cross section J8 viewed looking north.
2. Existing elevations were collected at discrete locations. Elevations between discrete elevations are shown as linear features. Some variations should be expected.
3. Excavate existing profile as necessary to place armor stone and foundation to achieve the specific grade.
4. Vertical tolerances are ±6 inches to the design surface. Horizontal tolerances are ± 2 feet.
5. Armor stone on the jetty ranges from 1.7 to 2.8 tons.
NOTE:

1. CROSS SECTION J1 VIEWED LOOKING WEST. CROSS SECTION J8 VIEWED LOOKING NORTH.
2. EXISTING ELEVATIONS WERE COLLECTED AT DISCRETE LOCATIONS. ELEVATIONS BETWEEN DISCRETE ELEVATIONS ARE SHOWN AS LINEAR FEATURES. SOME VARIATIONS SHOULD BE EXPECTED.
3. EXCAVATE EXISTING PROFILE AS NECESSARY TO PLACE ARMOR STONE AND FOUNDATION TO ACHIEVE THE SPECIFIC GRADE.
4. VERTICAL TOLERANCES ARE ±6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ± 2 FEET.
5. ARMOR STONE ON THE JETTY RANGE FROM 1.7 TO 2.8 TONS.
NOTES:
1. CROSS SECTION VIEWED LOOKING NORTHEAST.
2. VERTICAL TOLERANCES ARE ± 6 INCHES TO THE DESIGN SURFACE. HORIZONTAL TOLERANCES ARE ± 2 FEET.
3. BOULDERS DRAWN IN CROSS SECTION ARE FOR PICTORIAL PURPOSES ONLY. CONTRACTOR SHALL UTILIZE THE MATERIAL AND TOLERANCES SPECIFIED TO ACHIEVE THE LINES AND GRADES OF THE DESIGN.
4. ARMOR STONE ON THE JETTY RANGES FROM 1.7 TO 2.8 TONS.