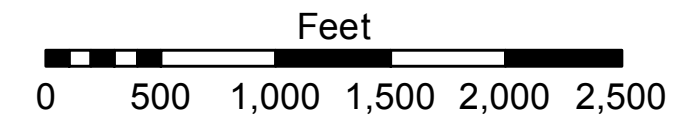
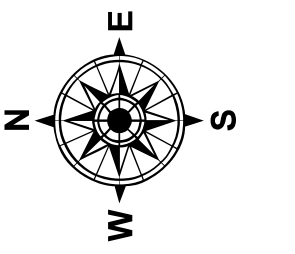


**LEGEND**

|                                  |                     |                         |                  |
|----------------------------------|---------------------|-------------------------|------------------|
| --- Federal Navigation Channel   | ○ Cable Area        | □ Borrow Area           | ■ 0' and above   |
| — Federal Navigation Center Line | □ Placement Area    | ● Shoalest Sounding**   | ■ 0' to -5'      |
| — As-built Pipeline/Cable        | □ Anchorage Area    | ☆ Beacon, General       | ■ -5' to -10'    |
| ..... Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy   | ■ -10' to -20'   |
| — Project Depth Contour          | ✈ Wrecks-Submerged  | ◆ Green Navigation Buoy | ■ -20' to -30'   |
|                                  |                     |                         | ■ -30' to -35'   |
|                                  |                     |                         | ■ -35' to -40'   |
|                                  |                     |                         | ■ -40' to -45'   |
|                                  |                     |                         | ■ -45' and below |



LWRP:  
Gage Reading:  
Sea Conditions:  
Vessel Name:  
Survey Type:  
Sounding Frequency\*\*\*: HIGH

LWRP  
BR:11.99 RR:24.42 USED:12.2 NGVD  
CALM  
OB-189  
SURVEY\_TYPE

**NOTES:**  
Horizontal Coordinate System:  
North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.  
Vertical Datum:  
Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NGVD).  
Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.  
The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.  
2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.  
Reference is N.O.A. Navigation Chart No. 11370.  
\*\* Shoalest Sounding per Quarter per Reach.  
\*\*\* High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.



**ACCESS NOTES:**  
Access Restrictions: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were prepared. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.  
Data Contents: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations, channel migration, and other factors. The user is responsible for the accuracy of the data. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.  
The information depicted on this map represents the results of a survey conducted on or after the date of the survey. The user is responsible for the accuracy of the data. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

|              |        |
|--------------|--------|
| Submitted:   | DS, JH |
| Recommended: | BD     |
| Approved:    | AC     |

**MISSISSIPPI RIVER - B.R. TO GULF  
BATON ROUGE FRONT CROSSING  
MD\_01\_BRF\_201601107  
107 January 2016**

**Sheet  
Reference  
Number  
1 of 97**