



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

LWRP: 1.3  
 Gage Reading: D:9.95 R:7.43 USED:8.80 NGVD  
 Sea Conditions: ROUGH/WINDY  
 Vessel Name: OB 167  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: HIGH

0 500 1,000 1,500 2,000 2,500  
 Feet

**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.

2015 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is N.O.A.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.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: RYLAND/SOULI	Plotted By: BD
Recommended:	Chief, Survey Section	Checked By: AC
Approved:	Chief, Waterways Maintenance Section	

**MISSISSIPPI RIVER - B.R. TO GULF  
 RICH BEND CROSSING  
 MD\_29\_RIBX\_20180622\_AD  
 22 June 2018**

**Sheet  
 Reference  
 Number  
 29 of 97**

Revision Number:  
4.0-20190702

**US Army Corps of Engineers  
 District: CEMVN**

**DISCLAIMER:** The United States Government (USG) makes these data and the recipient accepts and uses them with the express understanding that the USG does not warrant the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information provided. The user is responsible for the results of the application of the data for other than its intended purpose. The information depicted on this map represents the results of a survey conducted on the date of the survey. The information is considered to represent the general condition existing at that time.

**Distribution Liability:** The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of the application of the data for other than its intended purpose.

**Data Constants:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing hydrographic conditions, changes in channel conditions, and changes in the hydrographic conditions which develop after the date of the survey. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographic conditions which develop after the date of the survey. The user is responsible for the results of the application of the data for other than its intended purpose.