



**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: 1.2  
 Gage Reading: BR:10.9D:6.4 USED:5.7 NAVD  
 Sea Conditions: SMOOTH  
 Vessel Name: LAFORUCHE  
 Survey Type: CS  
 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 (NAVD).

Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.

The location of navigation aids are based 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.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:**  
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are for informational purposes only and are not to be used for any purpose other than that for which they were originally prepared or intended concerning accuracy, completeness, reliability, usability or suitability for any particular purpose of the user. The user is responsible for the results of any use of these data. The user is responsible for the results of any use of these data. The user is responsible for the results of any use of these data. The user is responsible for the results of any use of these data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By:	Checked By:
Recommended:	DJS/SJS	AO
Approved:	Chief Survey Section	AO
	Chief Waterways Maintenance Section	

**MISSISSIPPI RIVER - B.R. TO GULF  
 RICH BEND CROSSING  
 MD\_29\_RIB\_20201006\_CS  
 06 October 2020**

**Sheet  
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 Number  
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 4.1-20191105