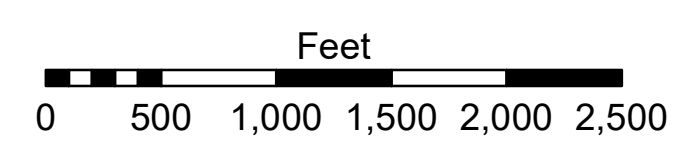
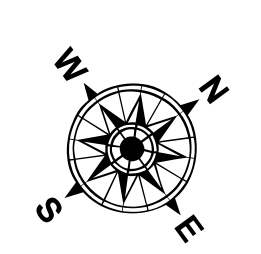


LEGEND		
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	♦ Red Navigation Buoy
— Project Depth Contour	✈ 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: 1.8  
 Gage Reading: BR:22.0 D:13.4 VRN:17.6 NAVD AVG  
 Sea Conditions: CHOPPY  
 Vessel Name: OB-169  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: HIGH

**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 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. 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.



**DISCLAIMER:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared, and that the recipient is responsible for the results of any use of the data. The application of the data for other than its intended purpose is at the user's risk. The Corps of Engineers accepts no responsibility for changes in the hydrographical conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted on or about the date shown. The information is considered to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: SP-JS	Plotted By: BD
Recommended:	Chief, Survey Section	Checked By: AO/JH
Approved:	Chief, Waterways Maintenance Section	

**MISSISSIPPI RIVER - B. R. TO GULF  
 BAYOU GOULA CROSSING  
 MD\_13\_GOU\_20240403\_CS  
 03 April 2024**

**Sheet Reference Number  
 13 of 97**

Revision Number:  
 4.2-20240420