



**LEGEND**

|                                  |                     |                         |                |
|----------------------------------|---------------------|-------------------------|----------------|
| --- Federal Navigation Channel   | ○ Cable Area        | ■ Shoaling 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' to 50'    |
|                                  |                     |                         | -50' and below |

LWRP: 1.0  
 Gage Reading: RE:2.9NO:2.1 USED:2.8 NAVD  
 Sea Conditions: CALM  
 Vessel Name: OB 189  
 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 (via 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.  
 2017 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.



**DISTRIBUTION LIABILITY:** The data represents the results of data collection for a specific US Army Corps of Engineers project. It is only valid for its intended use, context, time and accuracy. The user is responsible for the results. The application of the data for other than its intended purpose is at the user's risk. Data Constants Hydrographic survey data is subject to change due to several factors including but not limited to changing hydrographic conditions which develop after the date of the survey. The Corps of Engineers accepts no responsibility for changes in the hydrographic conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted at the time of the survey. It is not intended to represent the general condition existing at that time.

|              |                    |
|--------------|--------------------|
| Submitted:   | Surveyed By: SP-JA |
| Recommended: | Plotted By: AO     |
| Approved:    | Checked By: AO     |

**MISSISSIPPI RIVER - B.R. TO GULF  
 RESERVE - SHEET 2  
 MD\_37\_RE2X\_20220924\_CS  
 24 September 2022**

**Sheet Reference Number  
 37 of 97**

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 4.2-20200420