



<b>LEGEND</b>	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	★ Beacon, General
— Project Depth Contour	⊗ Obstruction Point
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy

**LWRP:** 1.9  
**Gage Reading:** BR:25.3 D:15.8 USED:21.00 NAVD  
**Sea Conditions:** CALM  
**Vessel Name:** OB-167  
**Survey Type:** CS  
**Sounding Frequency\*\*\*:** HIGH

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

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

**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.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/processing for a specific US Army Corps of Engineers activity and includes the general existing conditions. As such, the data is not necessarily accurate or complete for other uses. The user is responsible for the results of any application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging and filling operations, shoaling, scouring, and coastal processes. The data is intended for U.S. Army Corps of Engineers use in hydrographic conditions which develop after the date of publication. The data is not intended for use in dredging, ACO, and similar activities. The data is not intended for use in dredging, ACO, and similar activities.

This information depicts on the map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Surveyed By:	RYLAND/SONNIER
Submitted:	
Recommended:	One Survey Section
Approved:	One Waterways Maintenance Section
Checked By:	AOC

**MISSISSIPPI RIVER - B.R. TO GULF**  
**GRANADA CROSSING**  
**MD\_10\_GRA\_20210710\_CS**  
**10 July 2021**

**Sheet  
Reference  
Number**  
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