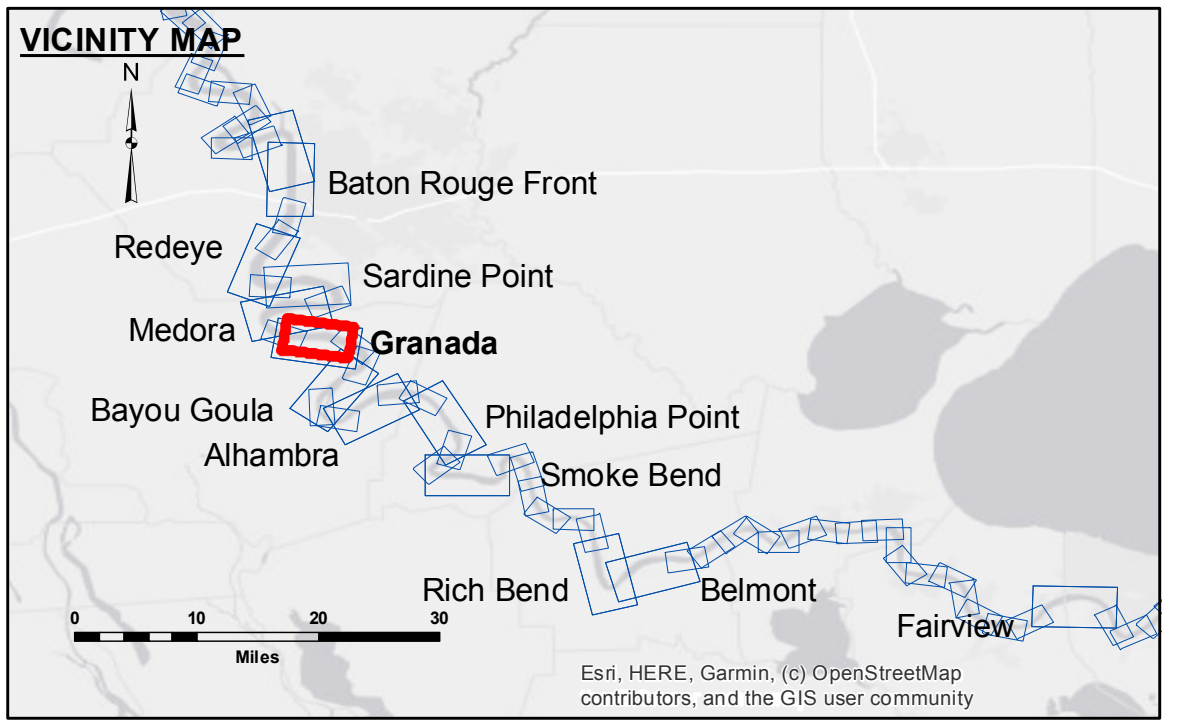


**Accession:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were originally prepared or intended. The user is responsible for the results of any use of the data for other than the intended purpose. The application of the data for other than the intended purpose is at the user's risk. The data are not to be used for any purpose other than that for which they were originally prepared or intended. The user is responsible for the results of any use of the data for other than the intended purpose. The application of the data for other than the intended purpose is at the user's risk.

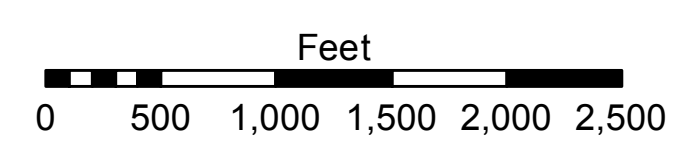
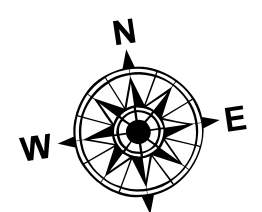
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: DS/SPS
Recommended:	Plotted By: BD
Approved:	Checked By: AC

**MISSISSIPPI RIVER - B. R. TO GULF  
GRANADA CROSSING  
MD\_10\_GRA\_20210824\_AD  
24 August 2021**



LEGEND	
--- Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	★ Wrecks-Submerged
□ Borrow Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
◆ Green Navigation Buoy	

0' and above	Green
0' to -5'	Yellow
-5' to -10'	Orange
-10' to -20'	Light Blue
-20' to -30'	Blue
-30' to -35'	Dark Blue
-35' to -40'	Light Purple
-40' to -45'	Dark Purple
-45' and below	White



LWRP: 1.9  
Gage Reading: BR:10.5 D:5.4 USED:8.2 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-189  
Survey Type: CS  
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 based 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.

**Sheet Reference Number  
10 of 97**