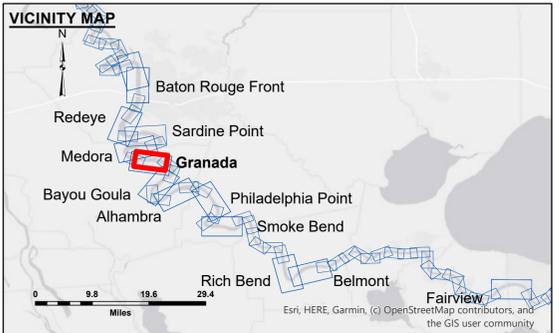


DISCLAIMER: The data represented by the symbols of this map were collected and processed for a specific US Army Corps of Engineers activity and indicates the general existing conditions. As such, the user is responsible for the accuracy, completeness, and reliability of the data for other than its intended purpose. The user is responsible for the results of any of the application of the data for other than its intended purpose. The Corps of Engineers is not liable for any damage, injury, or loss of property, life, or limb, or for any other consequences resulting from the use of this data. The Corps of Engineers is not responsible for any damage, injury, or loss of property, life, or limb, or for any other consequences resulting from the use of this data. The Corps of Engineers is not responsible for any damage, injury, or loss of property, life, or limb, or for any other consequences resulting from the use of this data.

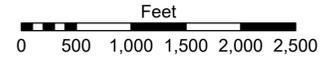
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U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: RYLAND/SIMMONS
Recommended:	Plotted By: JHT
Approved:	Checked By: JHT



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
★ Beacon, General	◆ 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: 1.9
 Gage Reading: BR:39.2 D:27.8 USED:34.1 NAVD88
 Sea Conditions: CALM
 Vessel Name: LAFORUCHE
 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.
 2021 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.

**MISSISSIPPI RIVER - B. R. TO GULF
 GRANADA CROSSING
 MD_10_GRA_20250423_CS
 23 April 2025**

**Sheet
 Reference
 Number
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