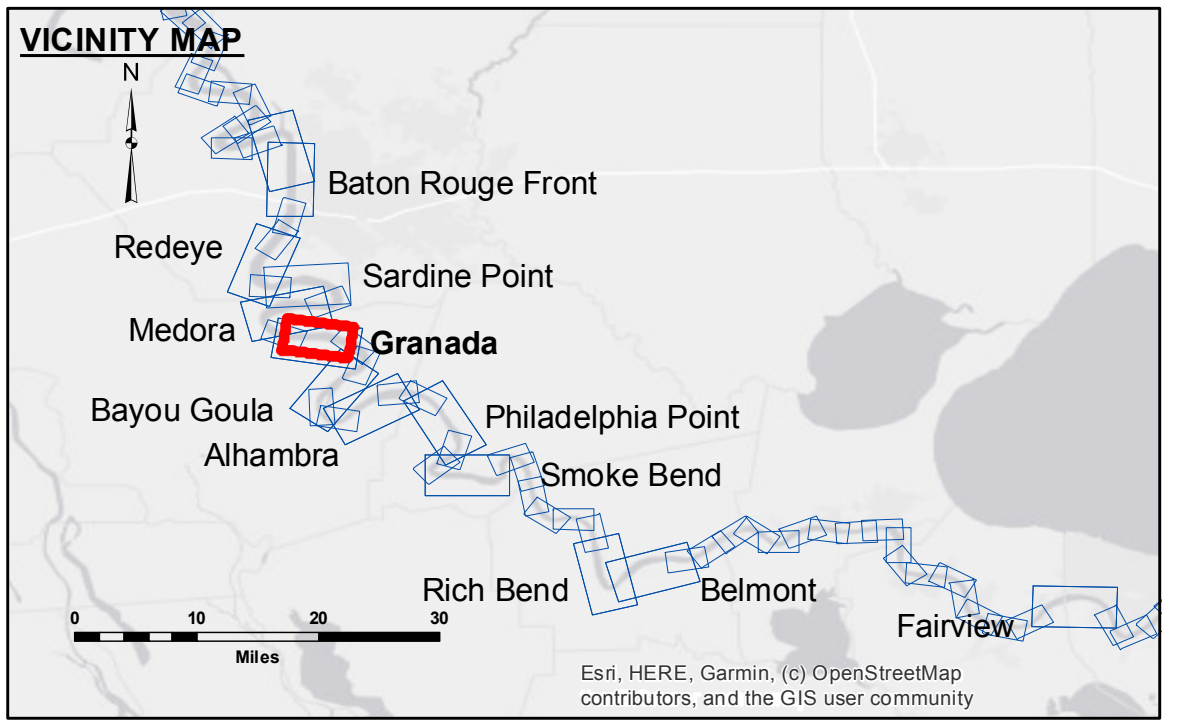


DISTRIBUTION LIABILITY: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of their application. The application of the data for other than its intended purpose is at the user's risk. Data contained in this report is subject to change without notice. The user is responsible for the results of their application of this data. The user is responsible for the results of their application of this data. The user is responsible for the results of their application of this data. The user is responsible for the results of their application of this data.

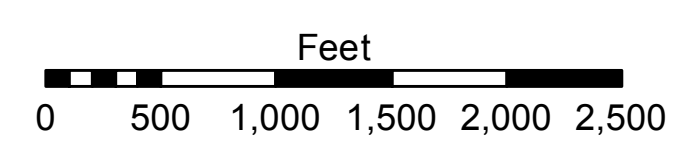
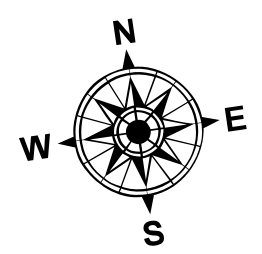
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: DS/PS
Recommended:	Plotted By: JH
Approved:	Checked By: AC

**MISSISSIPPI RIVER - B.R. TO GULF
GRANADA CROSSING
MD_10_GRA_20210728_CS
28 July 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:26.3 D:17.0 USED:22.2 NAVD
Sea Conditions: <1FT
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.
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.

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