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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 shifting currents. The data is intended for U.S. Army Corps of Engineers internal use and shall not be distributed outside the Corps without prior written permission from the U.S. Army Corps of Engineers.

The information depicted on this 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:	RVL/ADAMS
Submitted:	
Recommended:	One Survey Section
Approved:	One Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF
GRANADA CROSSING
MD_10_GRA_20220503_CS
03 May 2022**

NOTES:

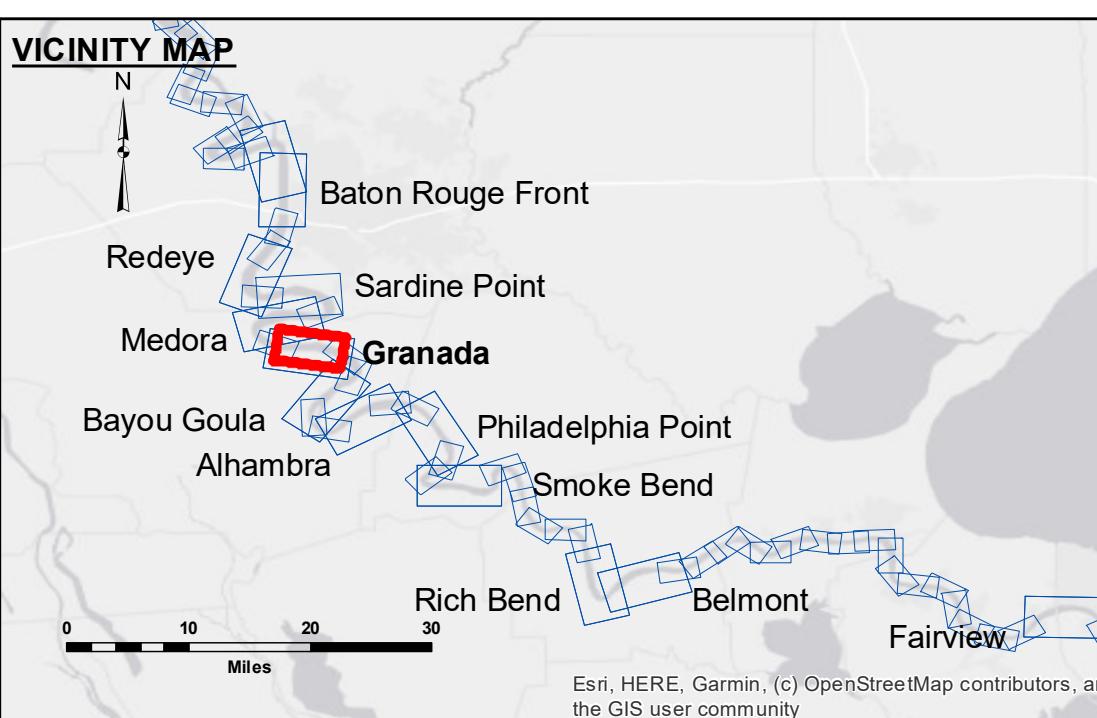
Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane
Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

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.

LEGEND

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

LWRP: 1.9
Gage Reading: BR:32.3 D:22.0 USED:27.60 NAVD
Sea Conditions: CALM
Vessel Name: OB-189
Survey Type: CONDITION
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

W N E S

Feet

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

Sheet
Reference
Number
10 of 97

Revision Number:
42-200420