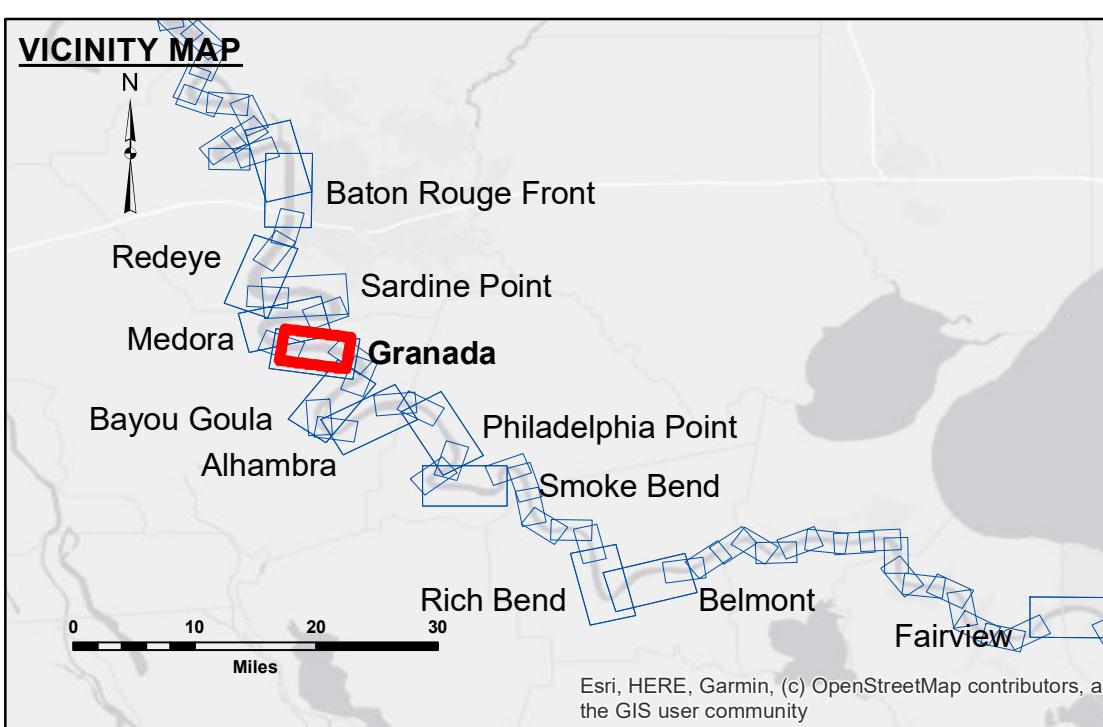


US Army Corps  
of Engineers  
District: CEMVN

**DISCLAIMER**  
Access Constraints: The United States Government furnishes the data and the recipient accepts and uses them with the express understanding that the US Government makes no warranties, expressed or implied, regarding the accuracy of the data, its reliability, or its suitability for any particular purpose. The United States Government shall not be liable under no theory, whether in contract, tort, or otherwise, for any damages arising from use of the data. The recipient agrees to indemnify the Government for any damages resulting from third party use of the data. The recipient fully agrees to represent these data to anyone else who receives this data, without so informing this Disclaimant. 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 the time.

U.S. ARMY CORPS OF ENGINEERS	
Surveyed By:	RYLAND/ADAMS
Plotted By:	BD
Checked By:	AOC
Submitted:	
Recommended:	Chief Survey Section
Approved:	Chief Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF**  
**GRANADA CROSSING**  
**MD\_10\_GRA\_20190726\_CS**  
26 July 2019



- LEGEND**
- Federal Navigation Channel
  - Federal Navigation Center Line
  - As-built Pipeline/Cable
  - ..... Unconfirmed Pipeline/Cable
  - Project Depth Contour
  - Cable Area
  - Placement Area
  - Anchorage Area
  - ★ Beacon, General
  - ⊗ Obstruction Point
  - ♂ Wrecks-Submerged

- Borrow Area
  - Shoalest Sounding\*\*
  - ◆ Red Navigation Buoy
  - ◆ 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 |

**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).

Sea Conditions: CALM

Vessel Name: OB-189

Survey Type: CONDITION

Sounding Frequency\*\*\*: HIGH

LWRP: 1.9

Gage Reading: BR:38.5 D:27.1 USED:33. NAVD

Obstruction Point

Wrecks-Submerged

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 Feet

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-AFPO 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

Revision Number:  
4-020190722