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Data Constraints: Hydrographic survey data is subject to change due to natural events including but not limited to dredging operations and natural shoals and scouring processes. The U.S. Army Corps of Engineers does not guarantee the data to be current or accurate at all times.

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This information 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.

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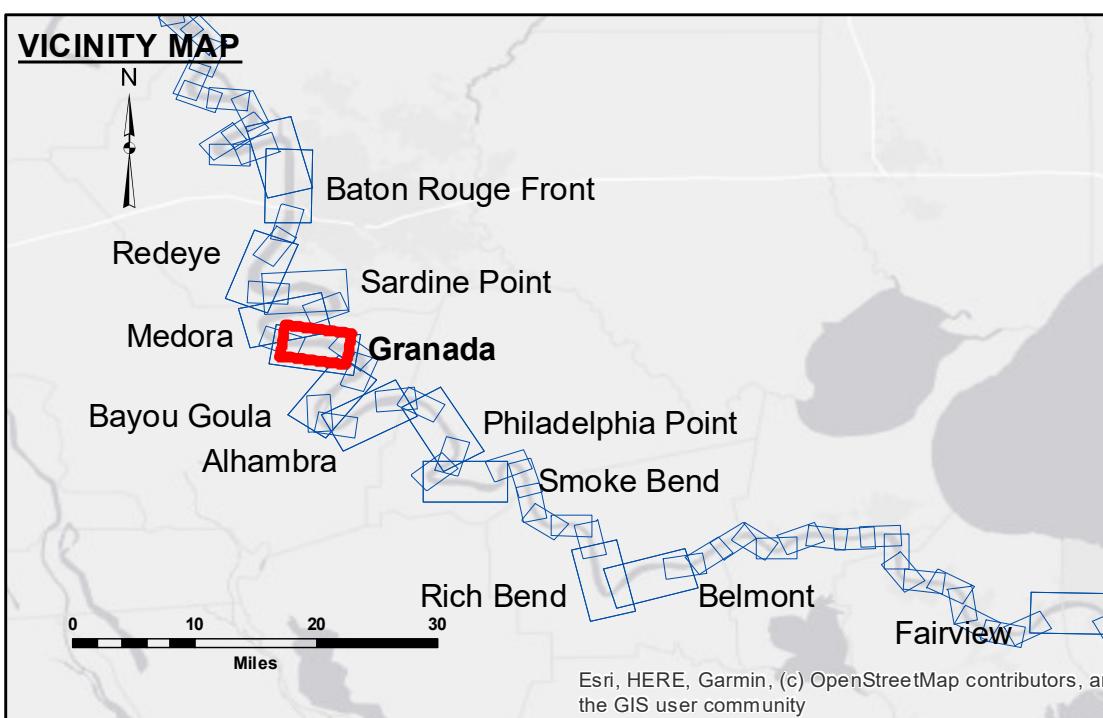
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U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT  
Surveyed By: DSIJH  
Submitted: \_\_\_\_\_  
Recommended: One Survey Section  
Approved: One Waterways Maintenance Section  
Checked By: AO

MISSISSIPPI RIVER - B.R. TO GULF  
GRANADA CROSSING  
MD\_10\_GRA\_20200526\_CS  
26 May 2020



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

LWRP: 1.9  
Gage Reading: BR:35.4 D:24.4 USED:30.4 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-189  
Survey Type: CONDITION  
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 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.



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

Sheet  
Reference  
Number  
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Revision Number:  
4-0-201907022