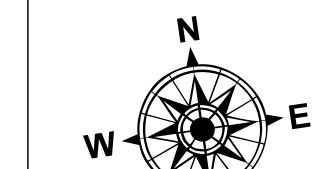


LEGEND	
— Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	★ Beacon, General
— Project Depth Contour	⊗ Obstruction Point
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy

LWRP: 1.9
Gage Reading: BR:14.2 D:8.5 USED: 11.60 NAVD
Sea Conditions: CALM
Vessel Name: MV 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

Feet



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

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.



Distribution liability: The data represents the results of data collection and processing by a specific US Army Corps of Engineers activity and includes the general existing conditions. As such, the user is responsible for the use and application of the results. The user is responsible for the results of any of the application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change rapidly due to severe factors including but not limited to dredging activities and natural shoaling and scouring processes. The user is responsible for the use and application of the data to any use under normal hydrographic conditions. This data is not intended for use in hydrographic conditions which are beyond the scope of the survey. The data is intended for U.S. Army Corps of Engineers internal use. Private studies should not rely upon it.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Surveyed By:	RYLAND ADAMS
Submitted:	
Recommended:	Chief Survey Section
Approved:	Chief Waterways Maintenance Section
Checked By:	JH
Printed By:	
Checked By:	

MISSISSIPPI RIVER - B.R. TO GULF
GRANADA CROSSING
MD_10_GRA_20220209_CS
09 February 2022

Sheet Reference Number
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