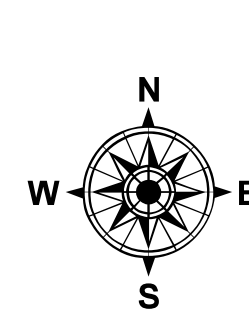


LEGEND

--- Federal Navigation Channel	○ ○ Cable Area	■ Shoaling Area	0' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	-5' to -10'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	★ Beacon, General	-10' to -20'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Red Navigation Buoy	-20' to -30'
		◆ Green Navigation Buoy	-30' to -35'
			-35' to -40'
			-40' to 45'
			-45' and below



LWRP: 0.6
Gage Reading: NO:12.3 HA:11.5 USED:10.9 NAVD
Sea Conditions: CALM
Vessel Name: OB-167
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 shown and provided by the U.S. Coast Guard and USACE crew

2017 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)
sonar 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.



**US Army Corps
of Engineers
District: CEMVN**

DISCLAIMER

Accession Numbers: The United States Government furnishes these data without charge to the U.S. Government and does not assume any liability for the use or misuse of the information expressed or implied concerning any product, completeness, accuracy, or timeliness of the data. The U.S. Government does not warrant the accuracy or completeness of the information and data furnished. The United States shall be held harmless for any application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change over time. The data is not intended to be used for navigation, activity and natural shoreline and sounding purposes. The U.S. Government does not warrant the accuracy or completeness of the hydrographical conditions which develop after the date of the data collection. The data is not intended to be used for any internal use. Product matrices should not be taken upon any other data.

Information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Navy. It is not to be considered a representation of the general condition existing at that time.

<p align="center">U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT</p>		Surveyed By: SPFM
Submitted _____		
Recommended _____ Chief, Survey Section		Plotted By: AO
Approved _____ Chief, Waterways Maintenance Section		Checked By: AO

MISSISSIPPI RIVER - B.R. TO GULF
NO HARBOR - SHEET 1
MD_54_NO1X_20210518_CS
18 May 2021

Sheet
Reference
Number
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4.1-20191105