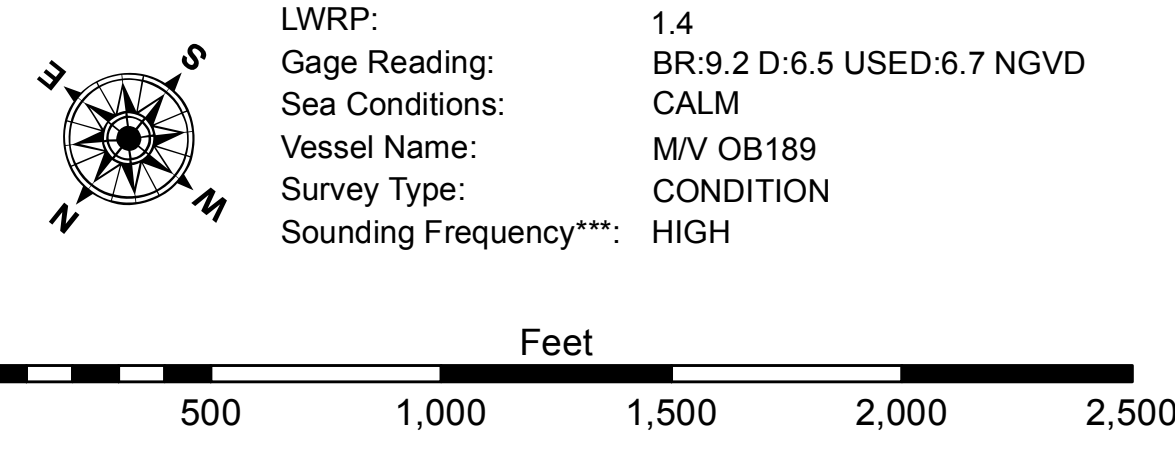


LEGEND	
--- Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	✦ Wrecks-Submerged
■ Shoaling Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
☆ Beacon, General	◆ Green Navigation Buoy
■ Shoaling Area	■ 0' and above
● Shoalest Sounding**	■ 0' to -5'
☆ Beacon, General	■ -5' to -10'
◆ Red Navigation Buoy	■ -10' to -20'
◆ Green Navigation Buoy	■ -20' to -30'
■ 0' and above	■ -30' to -35'
■ 0' to -5'	■ -35' to -40'
■ -5' to -10'	■ -40' to 45'
■ -10' to -20'	■ -45' and below
■ -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 (NGVD).
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.
 The location of navigation aids are based on and provided by the U.S. Coast Guard and USACE crew.
 2010 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.



Access Notes:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were prepared, or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results obtained from the application of the data for other than its intended purpose.
 Data Contents: Hydrographic survey data is subject to change and is not to be used for any purpose other than that for which it was prepared. The user is responsible for the results obtained from the application of the data for other than its intended purpose. These data belong to the Government. Therefore, the recipient may not transfer, reproduce, or disseminate these data to others without the written approval of the Army Corps of Engineers. The recipient is responsible for changes in the hydrographic conditions when developing after the date of these data. Project maintainers should not rely solely upon it.

Submitted:	Surveyed By: DR,JA
Recommended:	Plotted By: AO
Approved:	Checked By: MM

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

MISSISSIPPI RIVER - B. R. TO GULF
81 MILE POINT
MD_21_81P_20151030
30 October 2015

Sheet Reference Number
21 of 97

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