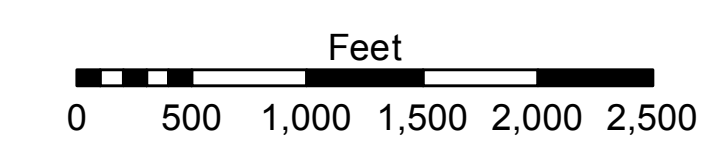
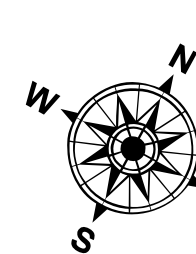


LEGEND				
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ 0' and above	<p>LWRP: 1.7 Gage Reading: BR:37.8 D:27.3 USED:30.3 NGVD Sea Conditions: CHOPPY Vessel Name: OB189 Survey Type: CONDITION Sounding Frequency***: HIGH</p> <p>NOTES: Horizontal Coordinate System: North American Datum of 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 base 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. 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.</p>
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -5' to -10'	
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	■ -10' to -20'	
..... Unconfirmed Pipeline/Cable	✕ Obstruction Point	◆ Red Navigation Buoy	■ -20' to -30'	
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	■ -30' to -35'	
			■ -35' to -40'	
			■ -40' to -45'	
			■ -45' and below	



DISCLAIMER: The information depicted on this map represents the results of a survey and is intended for use only as a general reference. It is not intended for use as a navigational aid. The user is responsible for the accuracy and reliability of the information obtained from this map. The Corps of Engineers does not assume any liability for errors or omissions in the information provided.

Submitted:	Checked By:
Recommended:	Approved:

SURVEYED BY: DS/DJR
 PLOTTED BY: BD
 CHECKED BY: AAC

**MISSISSIPPI RIVER - B. R. TO GULF
ALHAMBRA CROSSING
MD_16_ALH_20170613_CS
13 June 2017**

Sheet Reference Number
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