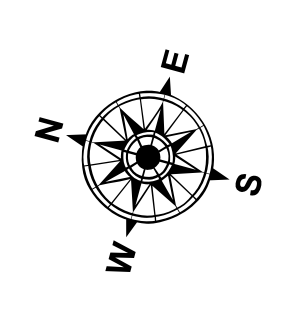


LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -10' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -10' to -20'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -20' to -30'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -30' to -40'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	■ -40' to -45'
			■ -45' to -50'
			■ -50' and below



Gage Reading: 4.3 MLG @ HEAD OF PASSES @ 0920
 Sea Conditions: CALM
 Vessel Name: OB-189
 Survey Type: CONDITION, SB
 Sounding Frequency***: LOW

Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Low Gulf Datum (MLG).
 Datum Relationships for gage 01545 as of July 2015:
 0.0' NAVD88 = -0.3' MLLW = -3.32' MLG

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.

2016 Aerial Photography data source: Precision Aerial Reconnaissance, LLC (1998 DOQQ in green)

Reference is N.O.A. Navigation Chart No. 11361.

** 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.



DISCLAIMER
 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 originally prepared, and that the data are not to be used for any purpose other than that for which they were originally prepared, and that the data are not to be used for any purpose other than that for which they were originally prepared.

DISTRICT LIABILITY
 The data represents the results of data collection for a specific US Army Corps of Engineers project. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of any use of the data for other than its intended purpose. Data Constants: Hydrographic survey data is subject to change due to several factors including but not limited to dredging, shoaling, and other factors. The recipient may not transfer these data to others without obtaining the District Engineer's approval. The information depicted on this map represents the results of a hydrographic survey which was conducted under the date of the survey. The recipient is responsible for the accuracy of the information depicted on this map. The recipient is not to be held liable for any errors or omissions in the data. The recipient is not to be held liable for any errors or omissions in the data. The recipient is not to be held liable for any errors or omissions in the data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: JH & DR	Checked By: MSK
Recommended:	Plotted By: TSS	
Approved:	Chief, Survey Section	Chief, Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF
 SOUTH PASS - SHEET 1
 SP_01_SPS_20191002_CS
 02 October 2019**

**Sheet Reference Number
 1 of 6**

Revision Number:
 415-20190102