



| LEGEND | | | |
|--------|--------------------------------|--|-----------------------|
| | Federal Navigation Channel | | Cable Area |
| | Federal Navigation Center Line | | Placement Area |
| | As-built Pipeline/Cable | | Borrow Area |
| | Unconfirmed Pipeline/Cable | | Shoalest Sounding** |
| | Project Depth Contour | | Beacon, General |
| | Obstruction Point | | Red Navigation Buoy |
| | Wrecks-Submerged | | Green Navigation Buoy |
| | 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 | | |

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.

LWRP: 1.3
 Gage Reading: D:4.5R:18.6 USED: 21.9 NGVD
 Sea Conditions: CHOPPY, STRONG CURRENT
 Vessel Name: OB189
 Survey Type: RECON
 Sounding Frequency***: HIGH

Scale: 0 500 1,000 1,500 2,000 2,500 Feet



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| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | | |
|--|-----------------------|-------------------|
| Submitted: | Surveyed By: DS/DK | Plotted By: AO |
| Recommended: | Checked By: AO | Checked By: AO |
| Approved: | Checked By: AO | |

**MISSISSIPPI RIVER - B.R. TO GULF
 RICH BEND RECON
 MR_29_RIB_20180509_CS
 09 May 2018**

**Sheet Reference Number
 29 of 97**

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 3.13-20160811