



LEGEND

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|--------------------------------|-------------------|-----------------------|----------------|
| Federal Navigation Channel | Placement Area | Borrow Area | -10' and above |
| Federal Navigation Center Line | Obstruction Point | Shoalest Sounding** | -10' to -20' |
| Unconfirmed Pipeline/Cable | Beacon, General | Red Navigation Buoy | -20' to -30' |
| Project Depth Contour | Wrecks-Submerged | Green Navigation Buoy | -30' to -40' |
| | | | -40' to -45' |
| | | | -45' to -48.5' |
| | | | -48.5' to -55' |
| | | | -55' and below |

Gage Reading: 1.8 MLLW @ PILOT TOWN @ 1020

Sea Conditions: CALM, FLUFF

Vessel Name: JOHN BOPP

Survey Type: CONDITION, SB

Sounding Frequency***: LOW

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 Mean Lower Low Water (MLLW, 07-11). Datum Relationships for gage 01525 as of July 2015: 0.0' NAVD83 = -0.3' MLLW = 3.20' 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 and will include suspended solids, known as "fluff", if present. Low frequency (24 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.



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| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Submitted: | Checked By: MSK |
| Recommended: | Checked By: MSK |
| Approved: | Checked By: MSK |

**MISSISSIPPI RIVER - B.R. TO GULF
SOUTHWEST PASS - SHEET 4
SW_04_SWP_20180308_CS
08 March 2018**

**Sheet Reference Number
4 of 13**

Revision Number:
3.13-20160811