



**LEGEND**

--- Federal Navigation Channel	○ Cable Area	■ Shoaling Area	■ 0' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ 0' to -5'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -5' to -9'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	□ -9' and below
— Project Depth Contour	✶ Wrecks-Submerged	◆ Green Navigation Buoy	

**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 (NAVD).  
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.  
2017 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is USACE IENC U35LM236.

\*\* 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:	9.3
Gage Reading:	RR:50.2BR:32.8 USED:45.1 NAVD
Sea Conditions:	WINDY/CALM
Vessel Name:	OB189
Survey Type:	CS
Sounding Frequency***:	HIGH



**DISCLAIMER:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information. The user is responsible for the results obtained from the application of the data for other than its intended purpose. Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing hydrological conditions which develop after the date of the survey. The Army Corps of Engineers accepts no responsibility for changes in the hydrological conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey and should not be used for navigation purposes. The information is for informational purposes only and should not be used for navigation purposes.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
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Reviewed By: Chief, Survey Section	Checked By: AO
Approved By: Chief, Waterways Maintenance Section	

**MISSISSIPPI RIVER - SHALLOW DRAFT**  
**IOWA POINT - SHEET 3**  
**MS\_17\_IP3X\_20210319\_CS**  
**19 March 2021**