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**Disclaimer:** The data represents the results of data collection/processing 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 Constraints:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, shoaling, and other changes in the hydrographical conditions which develop after the date of the survey. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographical conditions which develop after the date of the survey. The user is responsible for the results of any use of the data for other than its intended purpose.

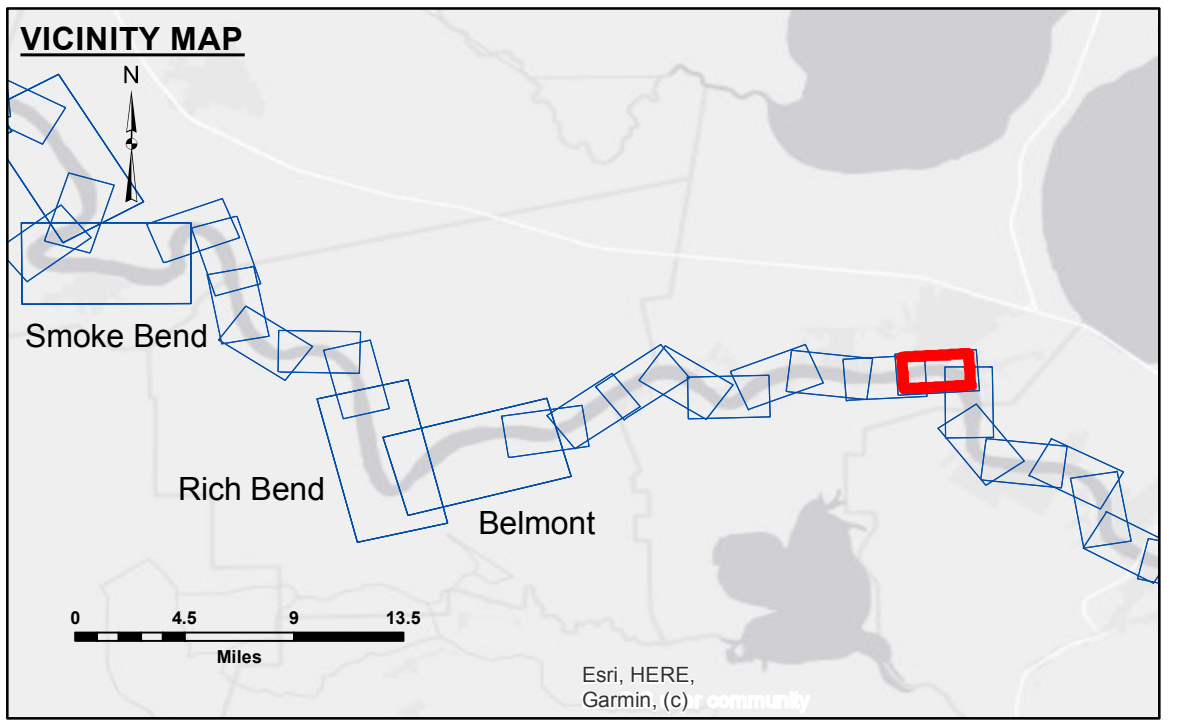
Submitted:	Surveyed By: SPPM
Recommended: Chief Survey Section	Plotted By: AO
Approved: Chief Waterways Maintenance Section	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

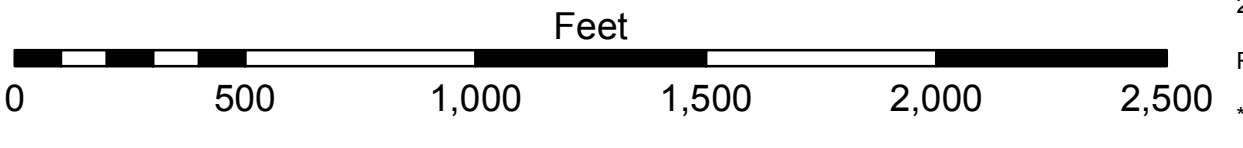
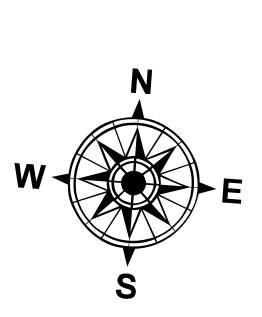
**MISSISSIPPI RIVER - B.R. TO GULF**  
**BONNET CARRE - SHEET 1**  
**MD\_39\_BC1X\_20210325\_CS**  
**25 March 2021**

**Sheet Reference Number**  
**39 of 97**

Revision Number:  
4.1-20191105



LEGEND		LEGEND		LEGEND	
--- Federal Navigation Channel	○ Cable Area	■ Shoaling Area	■ 0' and above	○ 0' to -5'	○ 0' to -5'
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -5' to -10'	○ -5' to -10'	○ -5' to -10'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -10' to -20'	○ -10' to -20'	○ -10' to -20'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -20' to -30'	○ -20' to -30'	○ -20' to -30'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	■ -30' to -35'	○ -30' to -35'	○ -30' to -35'
			■ -35' to -40'	○ -35' to -40'	○ -35' to -40'
			■ -40' to 45'	○ -40' to 45'	○ -40' to 45'
			■ -45' and below	○ -45' and below	○ -45' and below



LWRP: 0.9  
 Gage Reading: RES:18.7NO:12.8 USED:17.9 NAVD  
 Sea Conditions: CHOP  
 Vessel Name: OB-169  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: HIGH

**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 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.