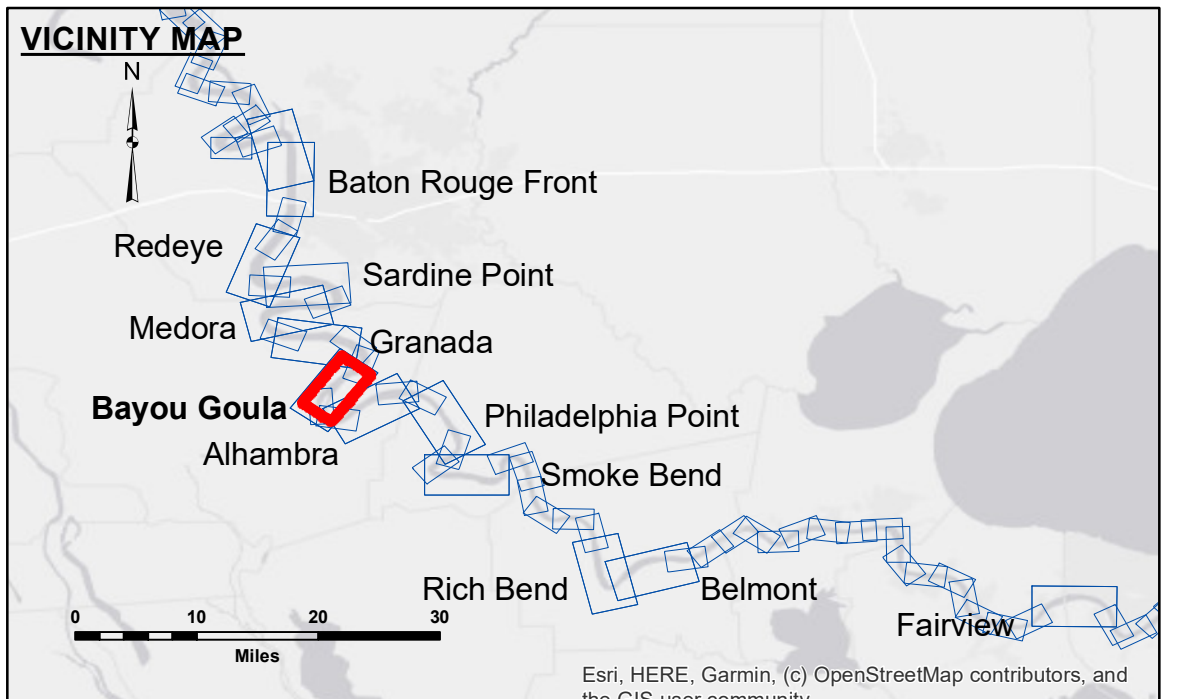


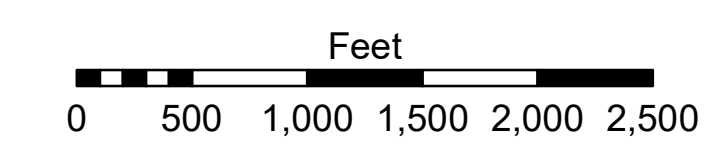
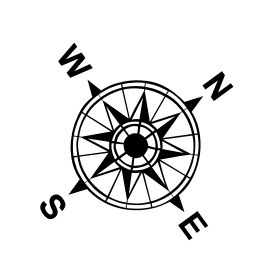
DISCLAIMER
 The information depicted on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, readability, usability or suitability, for any particular purpose of the information. The user is responsible for the accuracy, completeness, readability, usability or suitability, for any particular purpose of the information. The user is responsible for the accuracy, completeness, readability, usability or suitability, for any particular purpose of the information. The user is responsible for the accuracy, completeness, readability, usability or suitability, for any particular purpose of the information.

Submitted:	Reviewed:	Checked By:
Submitted:	Reviewed:	Checked By:
Submitted:	Reviewed:	Checked By:

MISSISSIPPI RIVER - B. R. TO GULF
BAYOU GOULA CROSSING
MD_13_GOU_20200819_CS
19 August 2020



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



LWRP: 1.8
 Gage Reading: BR:16.4D;8.8 USED:12.1 NAVD
 Sea Conditions: SMOOTH
 Vessel Name: LAFOURCHE
 Survey Type: CS
 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.
 2015 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.

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