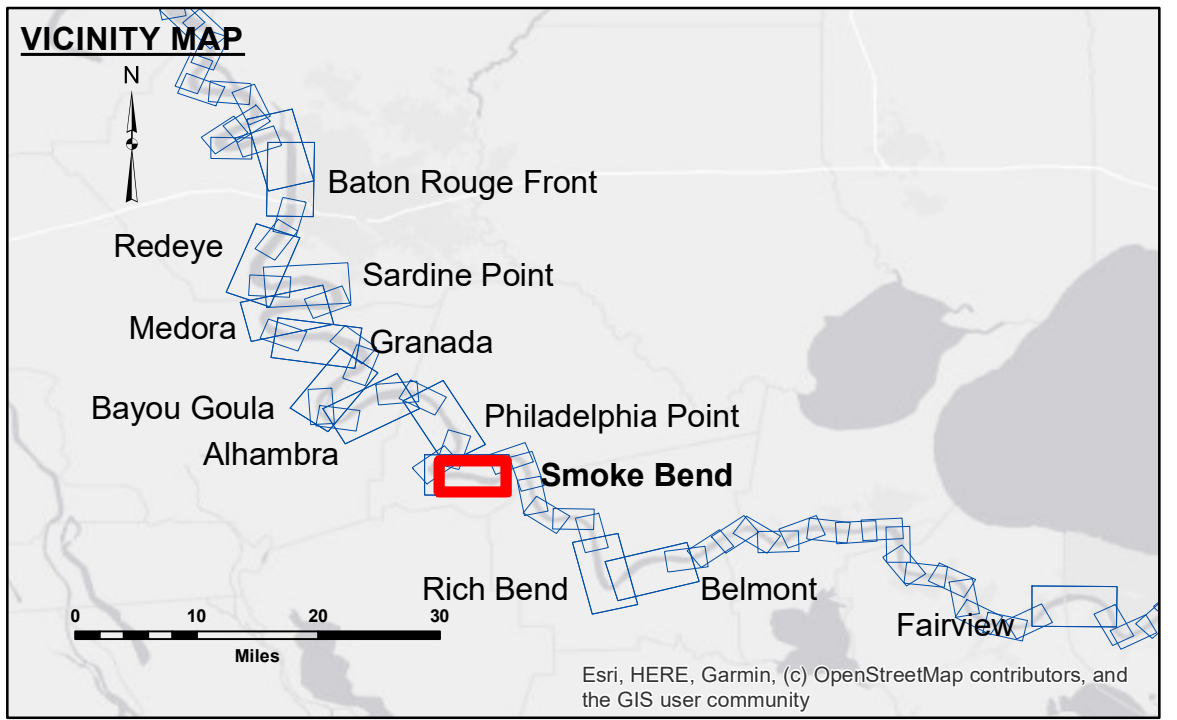


Accession Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers project. It is only valid for its intended use, content, time and accuracy specifications. The user is responsible for the results of their application of the data for other than its intended purpose.

Data Accuracy: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing hydrological conditions when developed after the date of the survey. The user is responsible for the results of their application of the data for other than its intended purpose. The information depicted on this map represents the results of a survey and is not intended to be used for any other purpose.

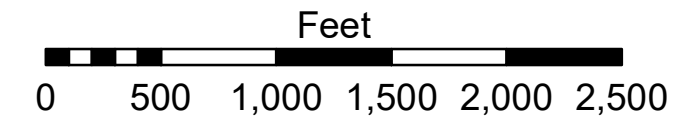
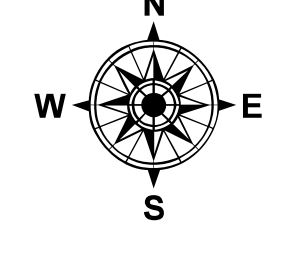
Submitted:	Surveyed By: JDH
Recommended:	Plotted By: AO
Approved:	Checked By: AO

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT



LEGEND	
--- Federal Navigation Channel	● Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	✶ Wrecks-Submerged
□ Borrow Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ 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	



LWRP: 1.4
 Gage Reading: BR:17.5D:10.2 USED:10.1 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 based 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.

**MISSISSIPPI RIVER - B.R. TO GULF
 SMOKE BEND CROSSING
 MD_22_SMB_20190910_CS
 10 September 2019**

**Sheet Reference Number
 22 of 97**

Revision Number:
 4: (2) 10/12