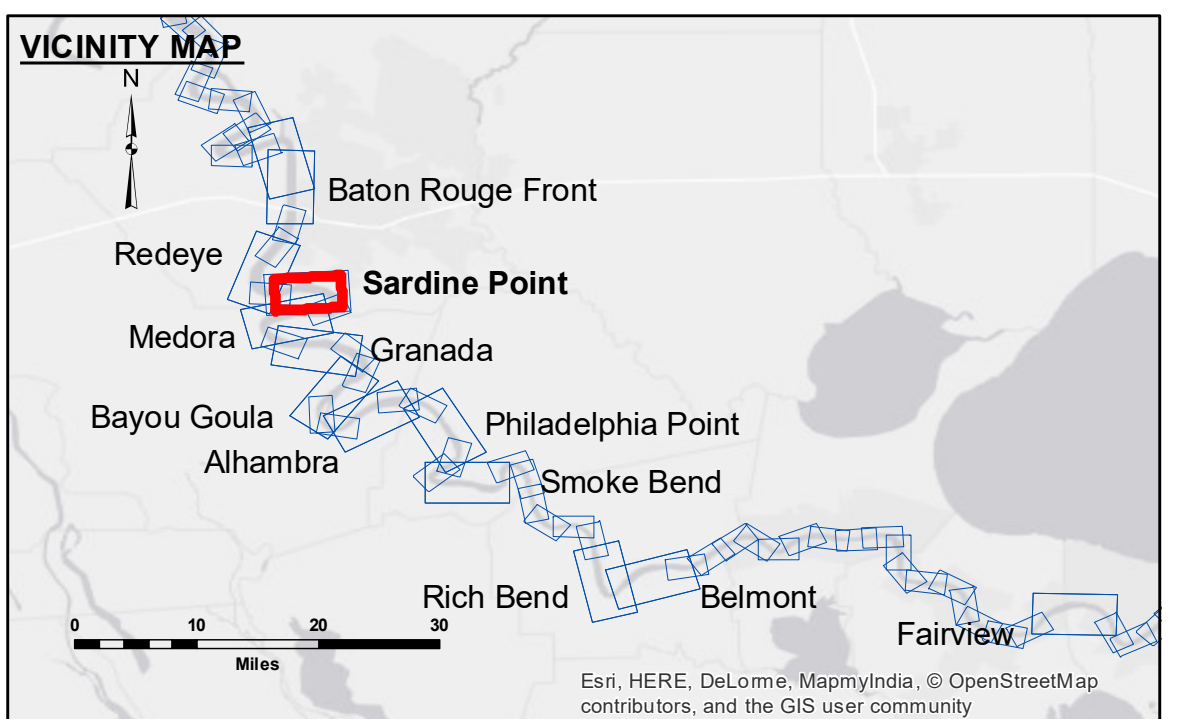


DISCLAIMER:
 The information depicted on this map represents the results of a...
 Distribution Liability: The data represents the results of data...
 Data Collection: Hydrographic survey data is subject to change...
 Accuracy: The user is responsible for the results...
 Use: This map is not to be used for navigation purposes...

Submitted	Surveyed By: DS/JH
Recommended: Chief, Survey Section	Plotted By: BD
Approved: Chief, Waterways Maintenance Section	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT



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
☆ Beacon, General	
◆ Red Navigation Buoy	
◆ Green Navigation Buoy	
□ Borrow Area	
● Shoalest Sounding**	

LWRP: 2.4
 Gage Reading: BR:30.86 D:21.21 USED:29.2 NGVD
 Sea Conditions: CHOPPY
 Vessel Name: OB-189
 Survey Type: CONDITION
 Sounding Frequency***: HIGH

Feet

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 (NGVD).
 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.
 2010 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
 SARDINE POINT RECON
 MR_06_SDP_20180226_CS**
 26 February 2018

**Sheet Reference Number
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Revision Number: 3.13-20160811