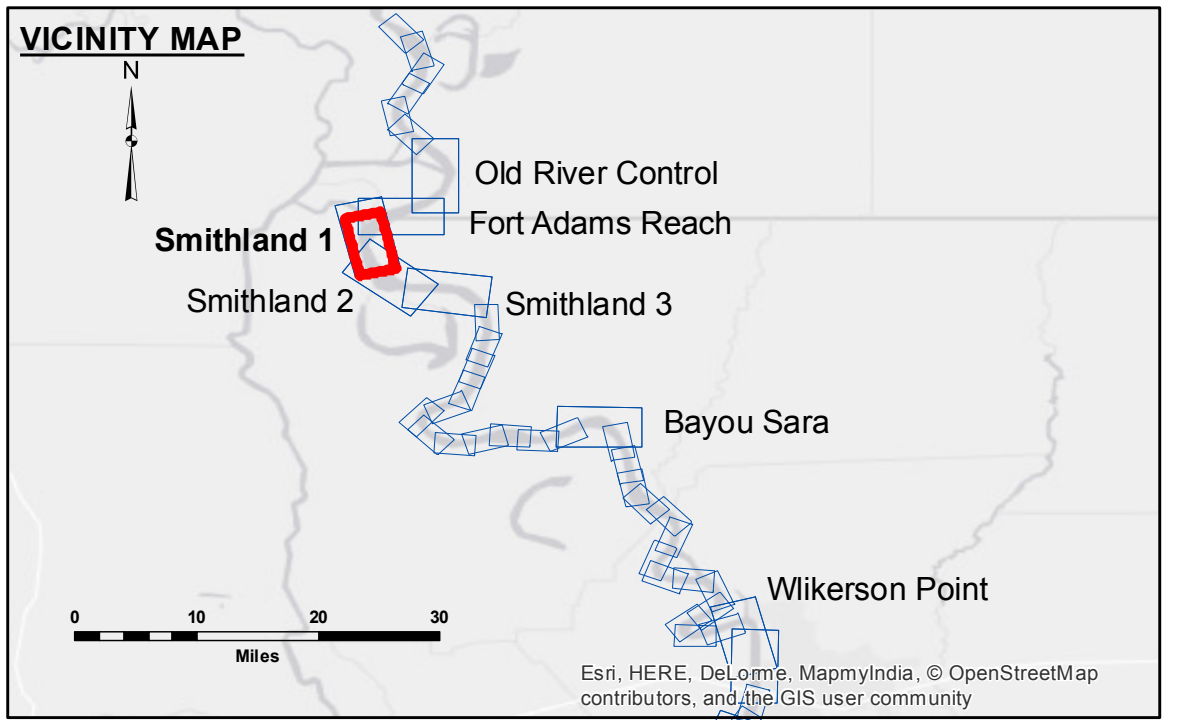


DISCLAIMER: The data represented on this map represents the results of a survey conducted for a specific purpose and is not intended for use for any other purpose. The user is responsible for the accuracy, completeness, and reliability of the data for their intended use. The Corps of Engineers is not responsible for any errors or omissions in the data or for any consequences arising from the use of the data. The information depicted on this map represents the results of a survey conducted for a specific purpose and is not intended for use for any other purpose. The user is responsible for the accuracy, completeness, and reliability of the data for their intended use. The Corps of Engineers is not responsible for any errors or omissions in the data or for any consequences arising from the use of the data.

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

**MISSISSIPPI RIVER - SHALLOW DRAFT
SMITHLAND - SHEET 1
MS_09_SM1_20161118
18 November 2016**



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
■ Shoaling Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
◆ 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 (NGVD).

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.
2010 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: 14.2
Gage Reading: RR:23.3BR:10.2 USED:23.40 NGVD
Sea Conditions: CALM
Vessel Name: M/V OB167
Survey Type: CONDITION
Sounding Frequency***: HIGH