

DISTRIBUTION 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, context, time and accuracy specifications. The user is responsible for the results and any application of the data for other than its intended purpose.

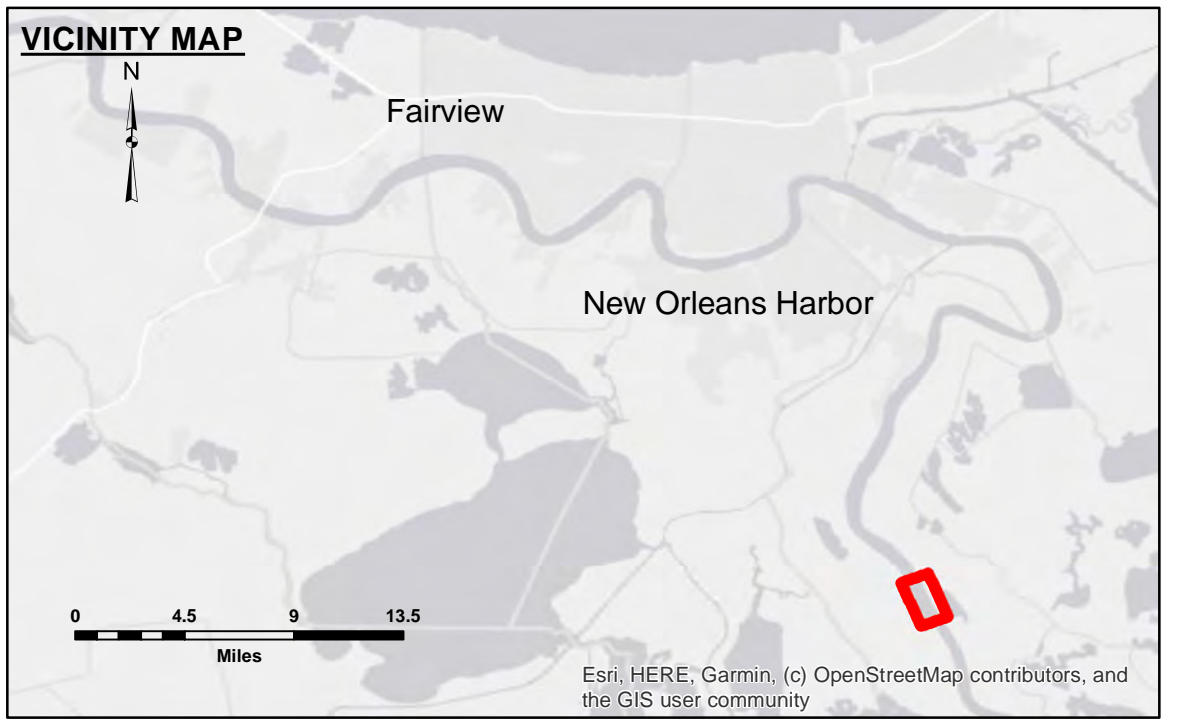
Data Accuracy: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing bathymetry, sedimentation, and other factors. The user is responsible for the data and its application. The user is not responsible for changes in the hydrographical conditions which develop after the time of the survey. The user is responsible for the data and its application. The user is not responsible for changes in the hydrographical conditions which develop after the time of the survey. The user is responsible for the data and its application. The user is not responsible for changes in the hydrographical conditions which develop after the time of the survey.

Submitted:	Reviewed:	Checked:
	Chief, Survey Section	Chief, Waterways Maintenance Section
Submitted:	Reviewed:	Checked:
	PM, AO	AO/JH

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

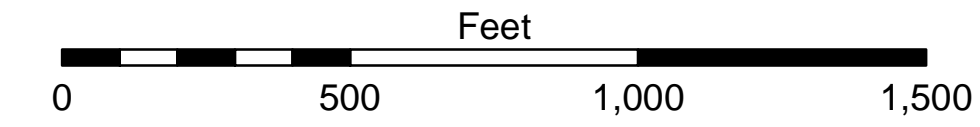
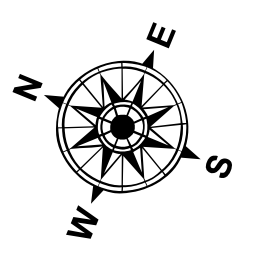
**MISSISSIPPI RIVER - B.R. TO GULF
SALT WATER BARRIER, BORROW 1
MD_72_SB3_20231205_CS_3X3**

05 December 2023



LEGEND

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



LWRP: 0.4
Gage Reading: 0.70 AV NAVD88
Sea Conditions: CALM
Vessel Name: OB-169
Survey Type: MB
Sounding Frequency***: 400KHZ

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 (LWRP07).

Datum Relationships for Alliance (0.0' Gage Datum = 0.0' NAVD88 (2009.55) = 0.71' NGVD29 = -0.4' LWRP07)

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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4.2-2020W20