



**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

**LEGEND**

LWRP: N/A

Gage Reading: ALLIANCE: 2.68 NAVD

Sea Conditions: CALM

Vessel Name: OB-167

Survey Type: CONDITION VRS RTK

Sounding Frequency\*\*\*: 400KHZ

0 500 1,000 1,500 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 North American Vertical Datum of 1988 (NAVD88).

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

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.

**US Army Corps of Engineers**  
District: CEMVN

**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, content, time and accuracy specifications. The user is responsible for the results. The user is not to be held liable for any other than its intended purpose.

**Data Collection:** Hydrographic survey data is subject to change rapidly due to several factors including but not limited to changing hydrographic conditions when developing the data of the project. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographic conditions when developing the data of the project. The information depicted on this map represents the results of a survey conducted on the date indicated. It is not to be considered as a representation of the general condition existing at that time.

**U.S. ARMY CORPS OF ENGINEERS**  
NEW ORLEANS DISTRICT

Submitted:	Surveyed By: SPP/PM
Recommended:	Plotted By: BD
Approved:	Checked By: AC

**MISSISSIPPI RIVER - B.R. TO GULF**  
**SALT WATER BARRIER, BORROW 1**  
**MD\_72\_SB3\_20200729\_CS\_10X10**  
29 July 2020

**Sheet Reference Number**  
**72 of 97**

Revision Number:  
4.1-2019115