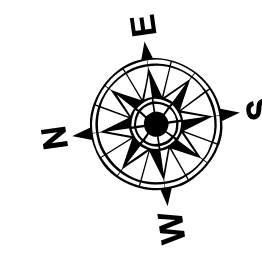
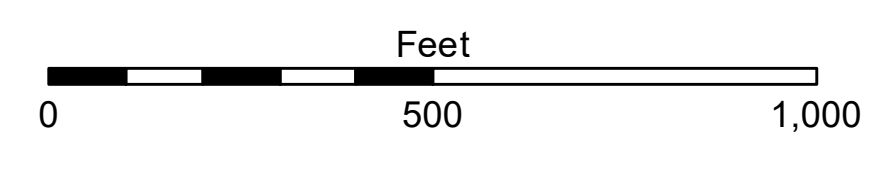


- LEGEND**
- | | | |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel | ○ Cable Area | □ Borrow Area |
| — Federal Navigation Center Line | ■ Placement Area | ● Shoalest Sounding** |
| — As-built Pipeline/Cable | □ Anchorage Area | ★ Beacon, General |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy |
| — Project Depth Contour | ⚓ Wrecks-Submerged | ◆ Green Navigation Buoy |
| | | ■ -15' and above |
| | | □ -15' and below |



Gage Reading: 2.5 MLG AVG
 Sea Conditions: CALM
 Vessel Name: M/V OB189
 Survey Type: CONDITION
 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 Mean Low Gulf Datum (MLG).

The location of navigation aids are base on and provided by the U.S. Coast Guard.

2015 Aerial Photography data source: NAIP. 1998 DOQQ imagery shown in green from USGS.

Reference is N.O.A. Navigation Chart No. 11344 and 11348.

** 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.

DISTRICT NOTES:
 Access: Consultants. The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared. The user is responsible for the results, reliability, usability or suitability for any particular purpose of the data, and for any errors or omissions, or for any consequences, expressed or implied, arising from the use of the data for other than its intended purpose. The application of the data for other than its intended purpose is not warranted. Hydrographic survey data is subject to change due to several factors including but not limited to dredging, sedimentation, and channel migration. The user should verify the accuracy of the data for their intended use. The information depicted on this map represents the results of a survey conducted on the date shown. It is not intended to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	RYLANDSONNIER	Surveyed By:	RYLANDSONNIER
Recommended:	Chet, Survey Section	Plotted By:	AO
Approved:	Chet, Waterways Maintenance Section	Checked By:	AO

MERMENTAU RIVER
 LOWER RIVER
 MM_15_LWR_20190305_CS_B2B
 05 March 2019

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 Reference
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