



LEGEND			
--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -12' and above
— Federal Navigation Center Line	■ Placement Area	● Shoalest Sounding**	□ -12' and below
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	

Gage Reading: LELAND BOWMAN: 3.2 MLG
 Sea Conditions: CALM
 Vessel Name: OB 167
 Survey Type: CONDITION
 Sounding Frequency***: LOW

Feet
 0 500 1,000

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).

Mile markers on the G.I.W.W. are shown in one mile intervals.
 The location of navigation aids are based on and provided by the U.S. Coast Guard.

2010 Aerial Photography data source: NAIP, 1998 DOQQ imagery
 shown in green from USGS.

Reference is N.O.A.A. Navigation Chart No. 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.



DISCLAIMER:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared. The user is responsible for the results obtained from the use of the data. The application of the data for other than its intended purpose is at the user's risk. The user is responsible for the results obtained from the use of the data. The application of the data for other than its intended purpose is at the user's risk. The user is responsible for the results obtained from the use of the data. The application of the data for other than its intended purpose is at the user's risk.

Submitted:	Surveyed By: DR, SP
Recommended: Chief, Survey Section	Plotted By: AIO
Approved: Chief, Waterways Maintenance Section	Checked By: RWM

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

**GULF INTRACOASTAL WATERWAY
 FRESHWATER TO MERMENIAU
 GW_24_F2M_20140604
 04 June 2014**

**Sheet
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