



LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -33' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -33' to -36'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -36' to -38'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	□ -38' and below
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	

Gage Reading: BY BIENVENUE: 3.14 MLG
 Sea Conditions: CALM
 Vessel Name: OB-189
 Survey Type: CONDITION
 Sounding Frequency***: HIGH

Vertical Datum: Mean Low Gulf Datum (MLG)

Reference is N.O.A.A. Navigation Chart No. 11367 and 11368.

*** 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.

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: Mean Low Gulf Datum (MLG)

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

2013 Aerial Photography data source: GEOCLIP. 1998 DOQQ imagery shown in green from USGS.



DISCLAIMER: The data represents the results of data collection for a specific US Army Corps of Engineers project. It is not intended for use in any other project or for any other purpose. The user is responsible for the results of any application of the data for other than its intended purpose. Data contained in this report is subject to change without notice. The US Army Corps of Engineers is not responsible for the results of any application of the data for other than its intended purpose. The information depicted on this map represents the results of a survey conducted on the date of the survey. It is not intended to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

Submitted:	Surveyed By: RYLAND/SONNER
Recommended:	Plotted By: BTD
Approved:	Checked By: RL

GULF INTRACOASTAL WATERWAY
MICHLOUD CANAL
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