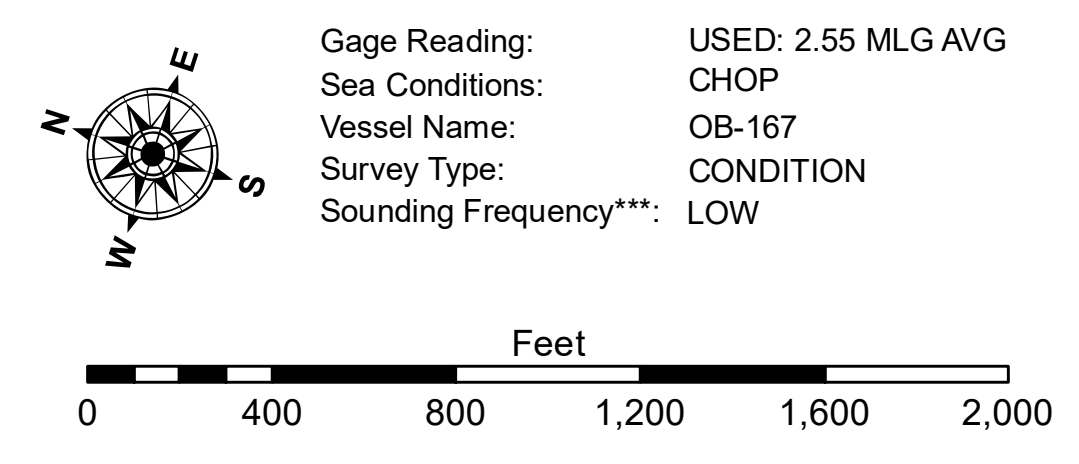


LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -12' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	■ -12' to -15'
— As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	■ -15' to -18'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	■ -18' and below
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: USED: 2.55 MLG AVG
 Sea Conditions: CHOP
 Vessel Name: OB-167
 Survey Type: CONDITION
 Sounding Frequency***: LOW

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).
 Datum Relationships for 76305 as of August 2014:
 0.0' NAVD88 (OPUS 2010) = 0.42' MLLW (2007-2011) = 1.34' MLG
 Distances on the Houma Nav. Canal are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard
 and USACE survey crews.
 2015 Aerial Photography data source: NAIP
 Reference is N.O.A.A. Navigation Chart No. 11355.
 ** 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.



Accession/Inventory: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were prepared, or applied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. These data are not to be used for any purpose other than that for which they were prepared, or applied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. These data are not to be used for any purpose other than that for which they were prepared, or applied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. These data are not to be used for any purpose other than that for which they were prepared, or applied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient.

U.S. ARMY CORPERS OF ENGINEERS NEW ORLEANS DISTRICT	
Surveyed By: SPPM	Plotted By: AO
Recommended By: Chief, Survey Section	Checked By: AO
Approved:	Chief, Waterways Maintenance Section

**HOUMA NAVIGATION CANAL
 BAR CHANNEL
 HN_19_BAR_20180530_CS
 30 May 2018**

**Sheet
 Reference
 Number
 19 of 19**

Revision Number:
 3.13-20160811