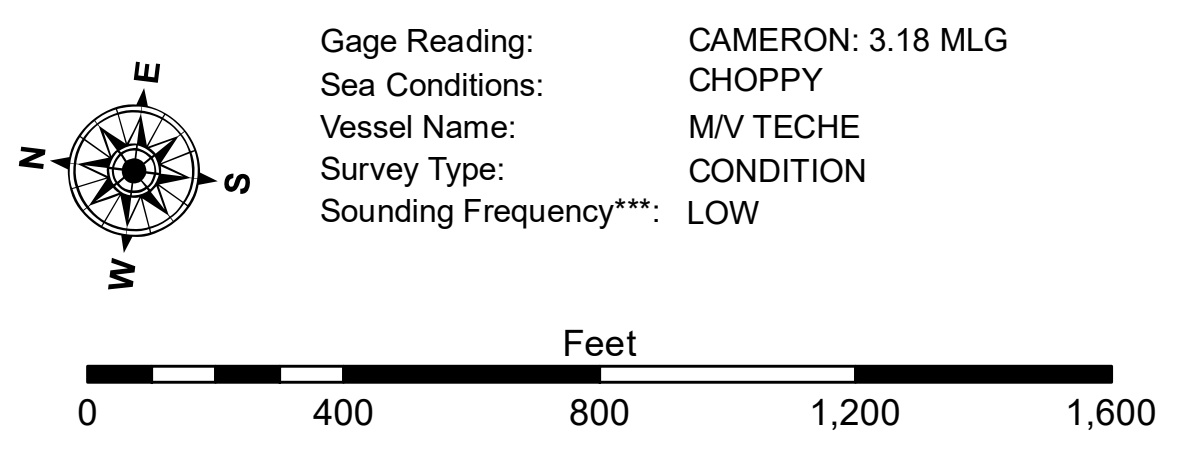


LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Anchorage Area
	As-built Pipeline/Cable		Obstruction Point
	Unconfirmed Pipeline/Cable		Wrecks-Submerged
	Project Depth Contour		Fluff Thickness (feet)*
	Cable Area		Shoalest Sounding**
	Beacon, General		Red Navigation Buoy
	Green Navigation Buoy		Green Navigation Buoy
	-15' and above		-20' to -25'
	-25' to -32'		-32' to -38'
	-38' to -40'		-40' to -42'
	-42' and below		



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 gage 73650 as of December 2013: 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' MLG or 0.0' MLLW = 1.0' MLG
 Distances on the Calcasieu River 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. 11339.
 * Difference between high and low frequency elevations where greater than 1.0'.
 ** 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 Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information furnished. The user is responsible for the results obtained from the use of this information. Application of the data for other than its intended purpose is prohibited.
 The information depicted on this map represents the results of a hydrographic survey conducted in accordance with the standards of the U.S. Coast and Geodetic Survey. The information is provided for informational purposes only and is not intended to be used for navigation. The user is responsible for the results of any use of this information. The information is provided as is and the user assumes all liability for any use of this information. The information is provided for informational purposes only and is not intended to be used for navigation. The user is responsible for the results of any use of this information.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SP-SK
Recommended:	Plotted By: BD
Checked:	Checked By: AC
Approved:	Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
 BAR SHEET 30
 CR_30_BAR_20170929_CS
 29 September 2017**

**Sheet Reference Number
 30 of 53**