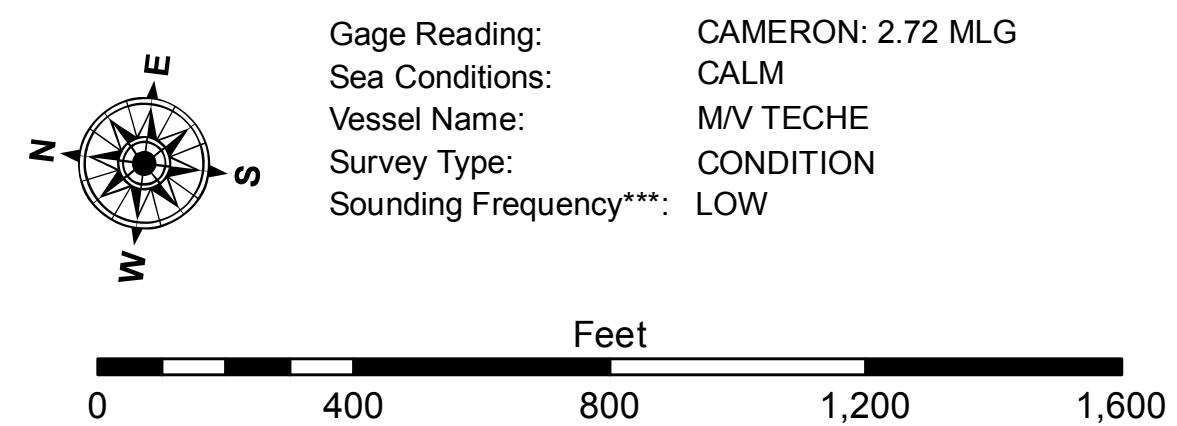


LEGEND

--- Federal Navigation Channel	● Cable Area	3 Fluff Thickness (feet)*	-15' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-15' to -20'
--- As-built Pipeline/Cable	□ Anchorage Area	★ Beacon, General	-20' to -25'
--- Unconfirmed Pipeline/Cable	⊗ Obstruction Point	★ Red Navigation Buoy	-25' to -32'
— Project Depth Contour	⚓ Wrecks-Submerged	★ Green Navigation Buoy	-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' NAVD83 (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 based on and provided by the U.S. Coast Guard and USACE survey crews.

2015 Aerial Photography data source: NAIP
 Reference is N.O.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.

US Army Corps of Engineers
 District: CEMVNV

DISCLAIMER: The United States Government furnishes this data for informational purposes only. It is not intended to be used for any purpose other than that for which it was prepared. The user assumes all responsibility for the accuracy, reliability, and availability of the data for any purpose other than that for which it was prepared. The user assumes all responsibility for the accuracy, reliability, and availability of the data for any purpose other than that for which it was prepared. The user assumes all responsibility for the accuracy, reliability, and availability of the data for any purpose other than that for which it was prepared.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted: _____
 Prepared By: SR, JH
 Recommended: _____
 Checked By: BD
 Approved: _____
 Chief, Survey Section
 Chief, Waterways Maintenance Section

CALCASIEU SHIP CHANNEL
BAR SHEET 29
CR_29_BAPX_20170427_AD
 27 April 2017

Sheet Reference
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Revision Number:
 1:12-2016011