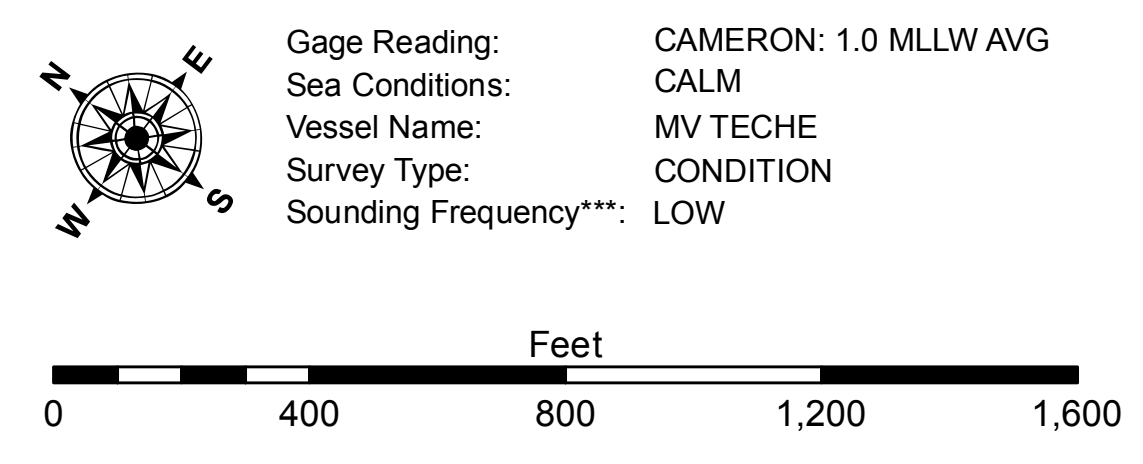


LEGEND

--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-16' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-16' to -21'
— As-built Pipeline/Cable	⊗ Anchorage Area	★ Beacon, General	-21' to -26'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-26' to -33'
— Project Depth Contour	⊗ Wrecks-Submerged	◆ Green Navigation Buoy	-33' to -39'
			-39' to -41'
			-41' to -43'
			-43' 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 Lower Low Water Datum (MLLW).
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.



DISCLAIMER:

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 originally prepared. The user is responsible for the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data. The user shall indemnify, defend and hold the United States Government harmless from and against all claims, damages, costs and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the United States Government in connection with the use of the data. The recipient shall not be held liable for any damage or injury to persons or property, or for any loss of life, limb or property, or for any other loss or damage, that may be caused by the use of the data. The recipient shall not be held liable for any damage or injury to persons or property, or for any loss of life, limb or property, or for any other loss or damage, that may be caused by the use of the data. The recipient shall not be held liable for any damage or injury to persons or property, or for any loss of life, limb or property, or for any other loss or damage, that may be caused by the use of the data.

Submitted:	SP-SR
Recommended:	JH
Approved:	JH

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
BAR SHEET 40
CR_40_BAR_20230105_CS
05 January 2023**

**Sheet Reference Number
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