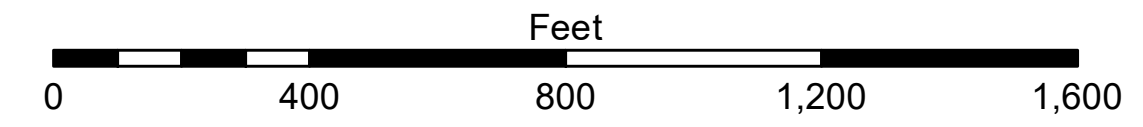
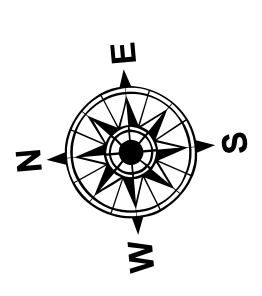


LEGEND

--- 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



Gage Reading: DM 72 VRN: 1.82 MLLW AVG.
 Sea Conditions: CALM
 Vessel Name: M/V TECHE
 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 Lower Low Water Datum (MLLW).
 Datum Relationships for gage 73615 as of December 2013:
 0.0' NAVD83 (2009.55) = 1.1' MLLW = 2.1' 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.
 2022 Aerial Photography data source: PAR LLC
 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 warranted for any purpose other than that for which they were collected, and that the Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data. The recipient understands that the data are provided under no liability whatsoever to any person by reason of any use made hereof. These data, including the Government's information, are provided as a service to the recipient and are not to be used for any purpose other than that for which they were collected. The recipient may not transfer these data to others without also transferring this Disclaimer.
 The information depicted on this map represents the results of a survey conducted on or about the date shown. It is not to be considered to represent the general condition existing at that time.
 Distribution Liability: The data represent the results of data collection for a specific US Army Corps of Engineers project and are only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results of any use of the data for other than its intended purpose.
 Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and other natural processes. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographic conditions when developed after the date of the survey. Product maintainers should not rely solely upon it.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	Surveyed By: SPJS
Recommended:	Plotted By: BD
Checked By: ADJH	Chief, Survey Section
Approved:	Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 20
 CR_20_LWR_20231010_CS
 10 October 2023**

**Sheet Reference Number
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