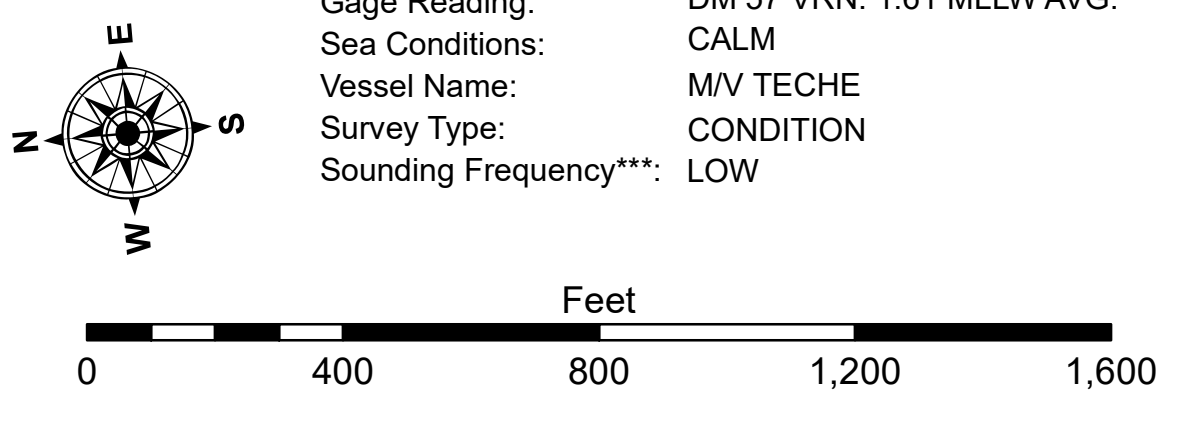


LEGEND

| | | | |
|----------------------------------|---------------------|---------------------------|------------------|
| --- 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 73625 as of December 2013:
 0.0' NAVD83 (2009.55) = 1.2' MLLW = 2.2' 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
 Access, Contaminants, 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 accuracy, completeness,
 reliability, usability or suitability, for any particular purpose of the
 user. The user is responsible for the results obtained from the use of
 the data. The user shall indemnify and hold the United States Government
 harmless from and against all claims, damages, losses and expenses, including
 reasonable attorneys' fees, that may be asserted against or incurred by the
 United States Government or any of its agencies, departments, or officials,
 in connection with or arising out of the 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 changing
 bathymetry, sedimentation, and other factors. The user is responsible for
 the hydrographic conditions which develop after the date of the
 survey. The United States Government does not warrant the accuracy of the
 data for use in any other manner than that intended by the United States
 Government. The user shall indemnify and hold the United States Government
 harmless from and against all claims, damages, losses and expenses, including
 reasonable attorneys' fees, that may be asserted against or incurred by the
 United States Government or any of its agencies, departments, or officials,
 in connection with or arising out of the use of the data for other than its intended
 purpose.

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

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 23
 CR_23_LWR_20241112_CS
 12 November 2024**

**Sheet
 Reference
 Number
 23 of 53**