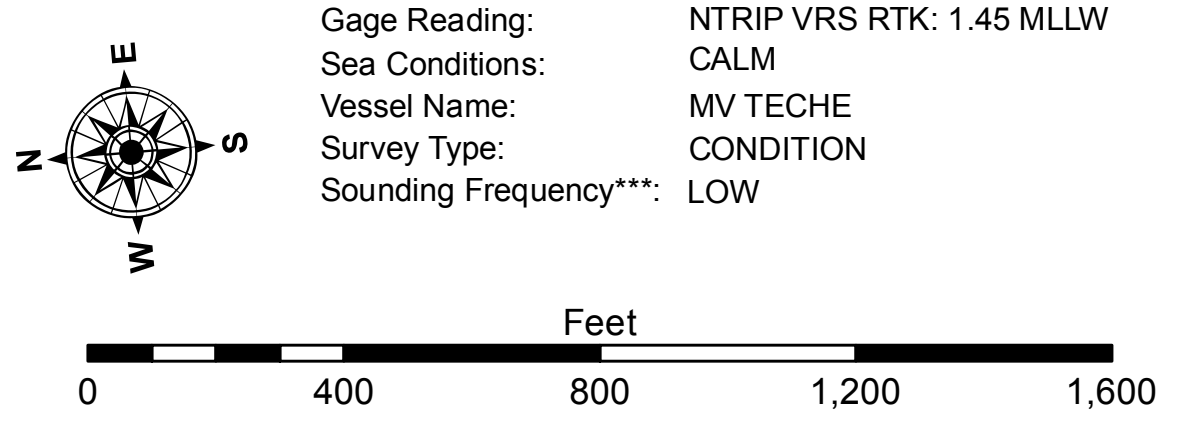


| LEGEND                           |                     |                           |
|----------------------------------|---------------------|---------------------------|
| --- Federal Navigation Channel   | ○ Cable Area        | 3 Fluff Thickness (feet)* |
| — Federal Navigation Center Line | □ Placement Area    | ● Shoalest Sounding**     |
| — As-built Pipeline/Cable        | □ Anchorage Area    | ★ Beacon, General         |
| ..... Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy     |
| — Project Depth Contour          | ⚓ Wrecks-Submerged  | ◆ Green Navigation Buoy   |
|                                  |                     | ■ -16' and above          |
|                                  |                     | ■ -16' to -21'            |
|                                  |                     | ■ -21' to -26'            |
|                                  |                     | ■ -26' to -33'            |
|                                  |                     | ■ -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.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 collected, and that the user is responsible for the results of any use of the data for other than the intended purpose.  
 The information depicted on this map represents the results of a survey conducted on or about the date shown on the map. The user is responsible for the results of any use of the data for other than the intended purpose.  
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|              |                    |
|--------------|--------------------|
| Submitted:   | Surveyed By: SP-SK |
| Recommended: | Plotted By: BD     |
| Approved:    | Checked By: AD/JH  |

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 23  
 CR\_23\_LWR\_20230216\_CS  
 16 February 2023**

**Sheet Reference Number  
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