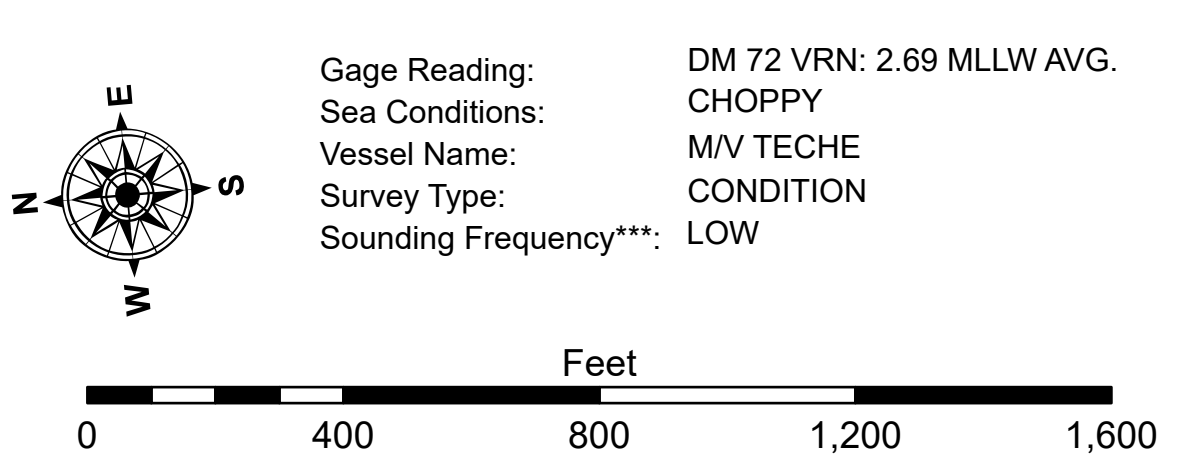


LEGEND							
	Federal Navigation Channel		Cable Area		Fluff Thickness (feet)*		-16' and above
	Federal Navigation Center Line		Placement Area		Shoalest Sounding**		-16' to -21'
	As-built Pipeline/Cable		Anchorage Area		Beacon, General		-21' to -26'
	Unconfirmed Pipeline/Cable		Obstruction Point		Red 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: 518,000**

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' NAVD88 (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 based 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)  
soundings are normal sediments through this "fluff" layer to depict elevations of consolidated bottom  
material. Low frequency accuracies may vary depending on channel conditions and bathymeter

<p><b>DISCLAIMER</b> The United States Government furnishes no warranty, either expressed or implied, concerning the accuracy, completeness, or usefulness of the information contained herein, nor does it warrant that the data herein will be useful to any particular individual or organization, nor does it warrant that the data herein will be free of errors. The United States Government makes no representation as to the accuracy or reliability of any information and data furnished. The results of this study are not to be used for any purpose other than that for which the data were collected, and the recipient fully agrees not to represent these data to anyone or use them in any way other than that for which the data were collected. The recipient may not transfer these data to others without obtaining the necessary permission from the United States Government provided that. The recipient may not further disseminate the data to others without obtaining the necessary permission from the United States Government.</p> <p>The information depicted on this map represents the results of a survey conducted by the United States Army Corps of Engineers and is not to be used for any purpose other than that for which the data were collected, and the recipient fully agrees not to represent these data to anyone or use them in any way other than that for which the data were collected. The recipient may not transfer these data to others without obtaining the necessary permission from the United States Government.</p>	<p><b>Acoustic Constraints.</b> The United States Government furnishes no warranty, either expressed or implied, concerning the accuracy, completeness, or usefulness of the information contained herein, nor does it warrant that the data herein will be useful to any particular individual or organization, nor does it warrant that the data herein will be free of errors. The United States Government makes no representation as to the accuracy or reliability of any information and data furnished. The results of this study are not to be used for any purpose other than that for which the data were collected, and the recipient fully agrees not to represent these data to anyone or use them in any way other than that for which the data were collected. The recipient may not transfer these data to others without obtaining the necessary permission from the United States Government.</p> <p>The information depicted on this map represents the results of a survey conducted by the United States Army Corps of Engineers and is not to be used for any purpose other than that for which the data were collected, and the recipient fully agrees not to represent these data to anyone or use them in any way other than that for which the data were collected. The recipient may not transfer these data to others without obtaining the necessary permission from the United States Government.</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

U.S. ARMY CORPS OF ENGINEERS	
Submitted: _____	Surveyed By: SPJS _____
Recommended: _____ Chief, Survey Section	Plotted By: BD _____
Approved: _____ Chief, Waterways Maintenance Section	Checked By: AOJ/H _____

CALCASIEU SHIP CHANNEL  
LOWER SHEET 19  
CR\_19\_LWR\_20250514\_CS  
14 May 2025

Sheet  
Reference  
Number  
19 of 53