



**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 73565 as of December 2013:  
0.0 NAVD83 (OPUS 2013) = 0.6' MLLW = 1.6' 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.

Gage Reading: DM 114: 0.6 MLLW  
Sea Conditions: CALM  
Vessel Name: M/V TECHE  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

Feet  
0 400 800 1,200 1,600



**Access Constraints:** The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data is provided for informational purposes only and is not intended for navigation. The user is responsible for the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data. The user agrees to hold the United States Government harmless under no liability whatsoever to any person by reason of any use of the data. The user agrees to indemnify the United States Government from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, that may be incurred by the United States Government as a result of any use of the data. The user agrees to release the United States Government from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, that may be incurred by the user as a result of any use of the data. The user agrees to hold the United States Government harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, that may be incurred by the user as a result of any use of the data.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SP,SR
Recommended:	Plotted By: BD
Checked By:	Checked By: ADJH
Approved:	Checked By: ADJH

**CALCASIEU SHIP CHANNEL  
UPPER SHEET 4  
CR\_04\_UPR\_20221205\_CS  
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**Sheet Reference Number  
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