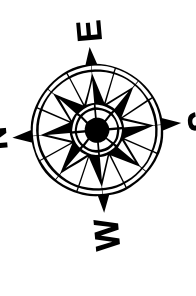
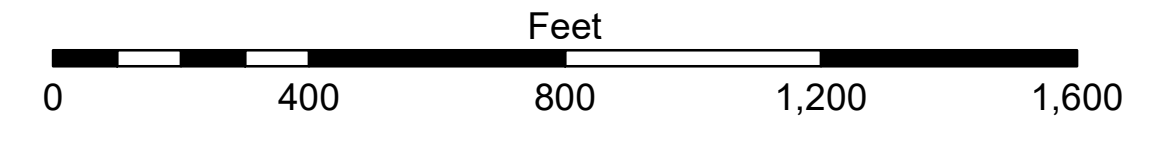


LEGEND		LEGEND		LEGEND	
Federal Navigation Channel	Cable Area	Fluff Thickness (feet)*	-16' and above	-16' to -21'	-21' to -26'
Federal Navigation Center Line	Placement Area	Shoalest Sounding**	-26' to -33'	-33' to -39'	-39' to -41'
As-built Pipeline/Cable	Anchorage Area	Beacon, General	-41' to -43'	-43' and below	
Unconfirmed Pipeline/Cable	Obstruction Point	Red Navigation Buoy			
Project Depth Contour	Wrecks-Submerged	Green Navigation Buoy			



Gage Reading: NTRIP VRS RTK: 0.94 MLLW AVG
 Sea Conditions: CALM
 Vessel Name: MV 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 73595 as of December 2013:
 0.0' NAVD83 (OPUS 2013) = 0.9' MLLW = 1.9' 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.



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 Distribution Liability: The data represents the results of data collection/surveying for a specific US Army Corps of Engineers project. It is only valid for its intended use. Content, time, and accuracy specifications. The user is responsible for the results. Approval 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 navigational factors. The user is responsible for the data. The US Army Corps of Engineers accepts no responsibility for changes in the hydrographic conditions which develop after the date of the survey. The data is for internal use. Product maintainers should not rely upon it.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		Submitted: _____	Surveyed By: SP/SR	Plotted By: JH	Checked By: JH
Recommended: Chief, Survey Section		Approved: _____	Chief, Waterways Maintenance Section		

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 11
 CR_11_LWR_20221212_AD
 12 December 2022**

**Sheet
 Reference
 Number
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