

US Army Corps of Engineers
District: CEMVN

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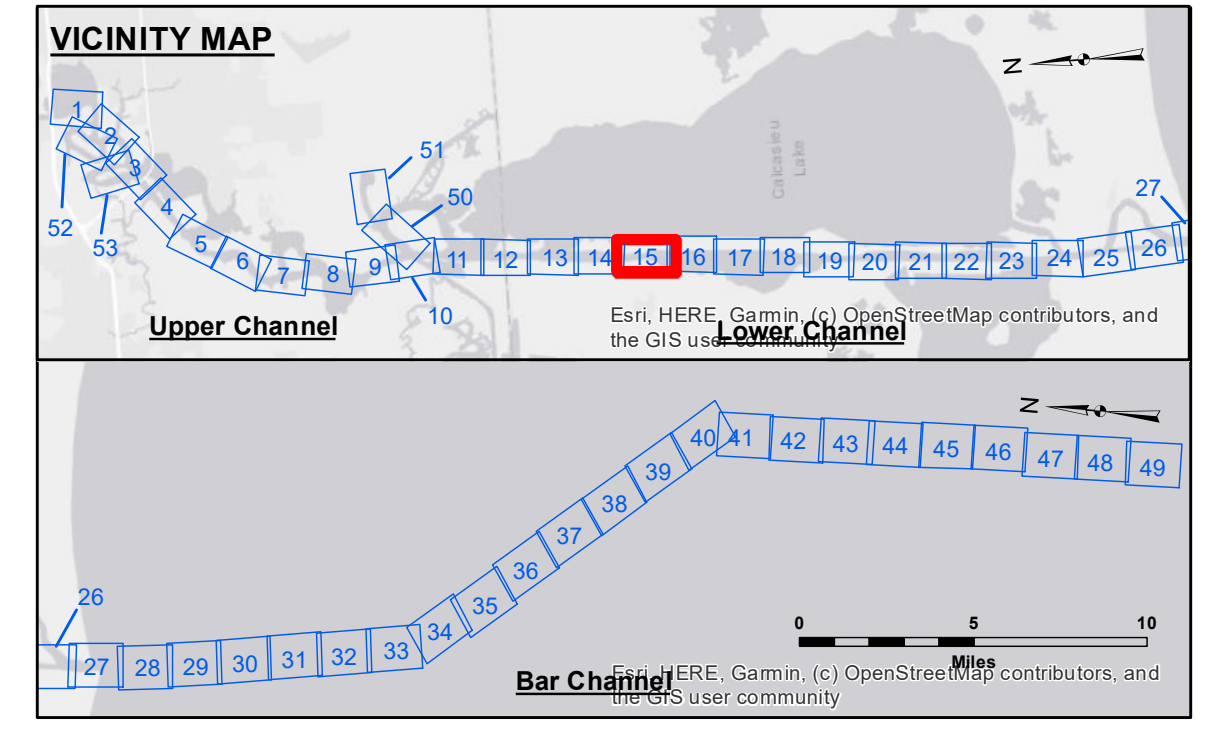
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Submitted:	SP/SK
Recommended:	BD
Chief, Survey Section	AO/JH
Approved:	Chief, Waterways Maintenance Section

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

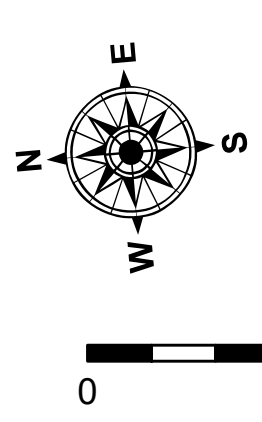
CALCASIEU SHIP CHANNEL
LOWER SHEET 15
CR_15_LWR_20230207_CS
07 February 2023

Sheet Reference Number
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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



Gage Reading: NTRIP VRS RTK: 1.29 MLLW
Sea Conditions: CALM
Vessel Name: MV TECHE
Survey Type: CONDITION
Sounding Frequency***: LOW

Feet
0 400 800 1,200 1,600

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 73600 as of December 2013: 0.0' NAVD88 (OPUS 2010) = 1.0' MLLW = 2.0' MGL or 0.0' MLLW = 1.0' MGL
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 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.