U.S. ARMY CORPS OF ENGINEERS 509,000 503,000 506,000 CALCASIEU LAKE US Army Corps of Engineers District: CEMVN LL=43.3 MLLW CALCASIEU SHIP CHANNEL LOWER SHEET 21 CR\_21\_LWR\_20230612\_CS 2023 LOWER SH \_21\_LWR\_20 12 June 2 2,641,000 509,000 506,000 503,000 NOTES: Horizontal Coordinate System: VICINITY MAP North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet. **LEGEND** Vertical Datum: -16' and above Gage Reading: NTRIP VRS RTK: 1.67 MLLW AVG. Soundings are shown in feet and indicate depths below Mean Lower Low Water Datum (MLLW). 3 Fluff Thickness (feet)\* CALM Datum Relationships for gage 73625 as of December 2013: -16' to -21' Cable Area Sea Conditions: --- Federal Navigation Channel 0.0' NAVD88 (2009.55) = 1.2' MLLW = 2.2' MLG or 0.0' MLLW = 1.0' MLG M/V TECHE Vessel Name: -21' to -26' 9 11 12 13 14 15 16 17 18 19 20 21 22 — Federal Navigation Center Line Placement Area Shoalest Sounding\*\* Distances on the Calcasieu River are shown at 1 mile intervals. Survey Type: CONDITION -26' to -33' Esri, HERE, Garmin, (c) OpenStr the GIS use **- OWET, Channel** Sounding Frequency\*\*\*: LOW The location of navigation aids are base on and provided by the U.S. Coast Guard **Upper Channel** [\_\_] Anchorage Area As-built Pipeline/Cable -33' to -39' Beacon, General and USACE survey crews. -39' to -41' ∅ Obstruction Point ..... Unconfirmed Pipeline/Cable 2022 Aerial Photography data source: PAR LLC 40 41 42 43 44 45 46 47 48 49 Red Navigation Buoy Sheet -41' to -43' Reference is N.O.A.A. Navigation Chart No. 11339. Wrecks-Submerged — Project Depth Contour -43' and below Reference Green Navigation Buoy 1,200 400 \* Difference between high and low frequency elevations where greater than 1.0'. Number \*\* Shoalest Sounding per Quarter per Reach. 21 **of** 53 \*\*\* 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 consoldiated bottom Revison Number:

material. Low frequency accuracies may vary depending on channel conditions and fathometer

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