U.S. ARMY **CORPS OF ENGINEERS** 2,665,000 620,000 2,662,000 US Army Corps of Engineers District: CEMVN CALCASIEU PARISH DISPOSAL AREA 7 STA. 16+44.00 AZ. 143"2843.3 STA. 16+28.00 AZ. 143*28'36.1 STA. 16+26.00 AZ. 143°28'35.0 STA. 16+24.00 AZ. 143°28'34.1 STA. 16+16.00 AZ. 143°28'30,6 STA. 15+80,00 AZ. 143°28'14,0 ROSE BLUFF CUTOFF (DM 114) - 73565 (0.0' NAVD88 = 0.6' MLLW = 1.6' MLG) -LL=48.1 MLLW LL=45.1 MLLW 43 LL=49.1 MLLW LL=47.1 MLLW GREEN BUOY DISPOSAL AREA 6 SHEET CALCASIEU SHIP UPPER 04_UPR_ 2,662,000 623,000 2,659,000 620,000 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 NTRIP RTK VRS: 1.90 MLLW AVG. Gage Reading: 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' NAVD88 (OPUS 2013) = 0.6' MLLW = 1.6' MLG or 0.0' MLLW = 1.0' MLG 3 Fluff Thickness (feet)* CALM -16' to -21' --- Federal Navigation Channel Cable Area Sea Conditions: OB-167 Vessel Name: -21' to -26' 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 — Federal Navigation Center Line Placement Area Shoalest Sounding** Distances on the Calcasieu River are shown at 1 mile intervals. CONDITION -26' to -33' Esri, HERE Garmin, (c) Lower Channel Sounding Frequency***: LOW The location of navigation aids are base on and provided by the U.S. Coast Guard [__] Anchorage Area **Upper Channel** As-built Pipeline/Cable -33' to -39' Beacon, General and USACE survey crews. -39' to -41' ∅ Obstruction Point Unconfirmed Pipeline/Cable 2015 Aerial Photography data source: NAIP Red Navigation Buoy -41' to -43' Sheet Reference is N.O.A.A. Navigation Chart No. 11339. — Project Depth Contour Wrecks-Submerged Reference -43' and below Green Navigation Buoy 1,200 Number 400 * Difference between high and low frequency elevations where greater than 1.0'. ** Shoalest Sounding per Quarter per Reach. **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

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