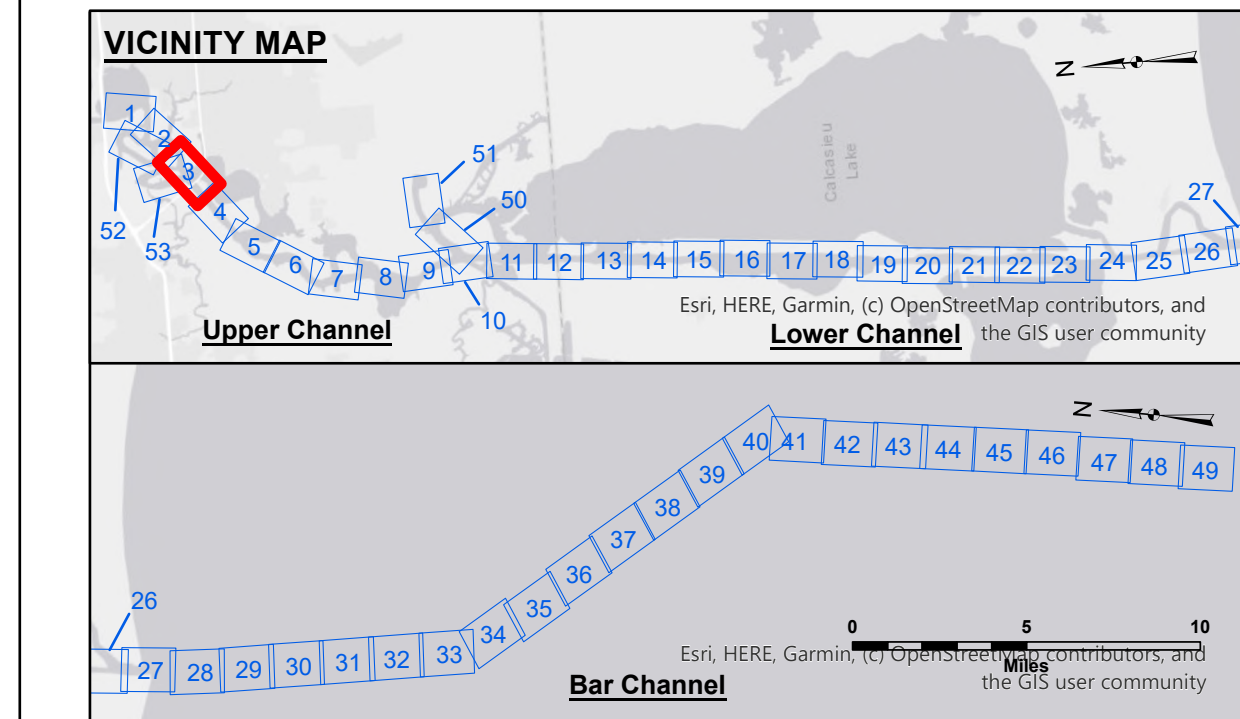
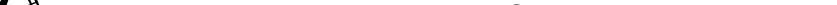




Gage Reading: DM 119 VRN: 1.87 MLLW AVG.
 Sea Conditions: CHOPPY
 Vessel Name: OB-189
 Survey Type: CONDITION
 Sounding Frequency***: LOW

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 73550 as of December 2017: 0.0' NAVD83 (OPUS 2010) = 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 shown and provided by the U.S. Coast Guard and USACE survey crews. Aerial Photography data source: BUMP 2026 (DOQQ 1998 in transparent green) 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.	CALCASIEU UPPER CR_03_UP 04 J	Sheet Reference Number 3 of 53