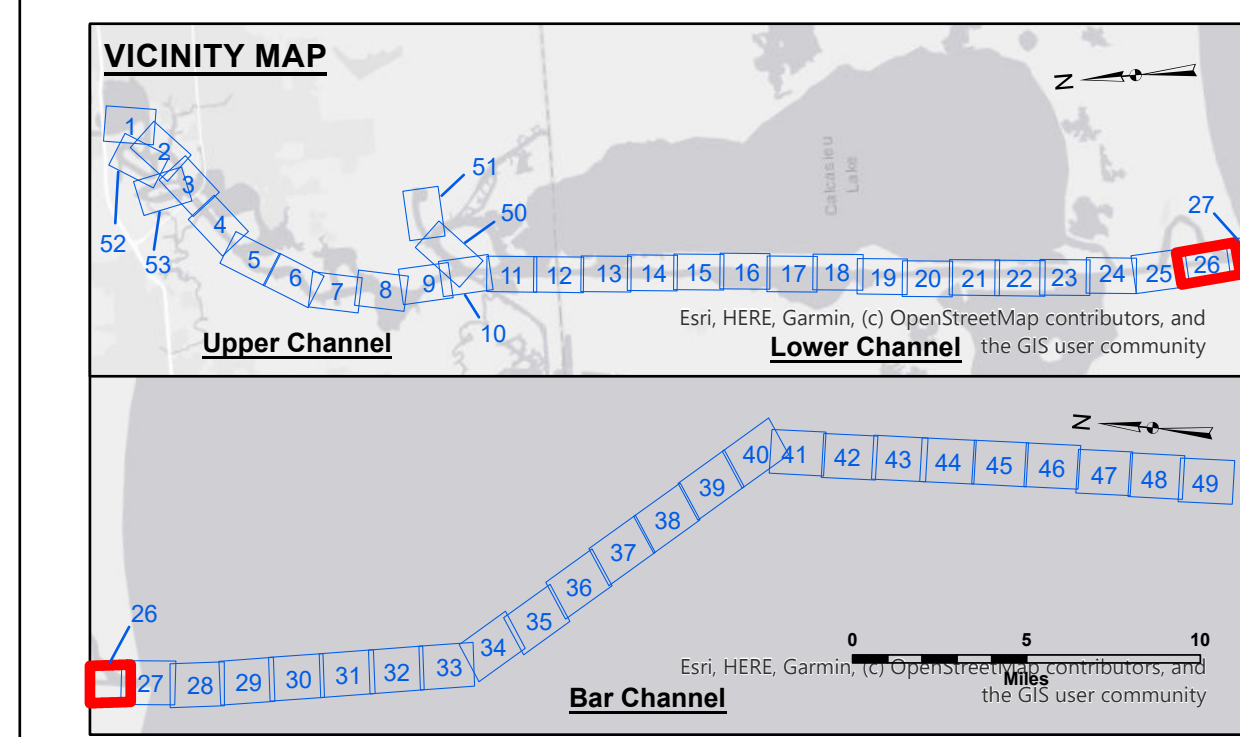
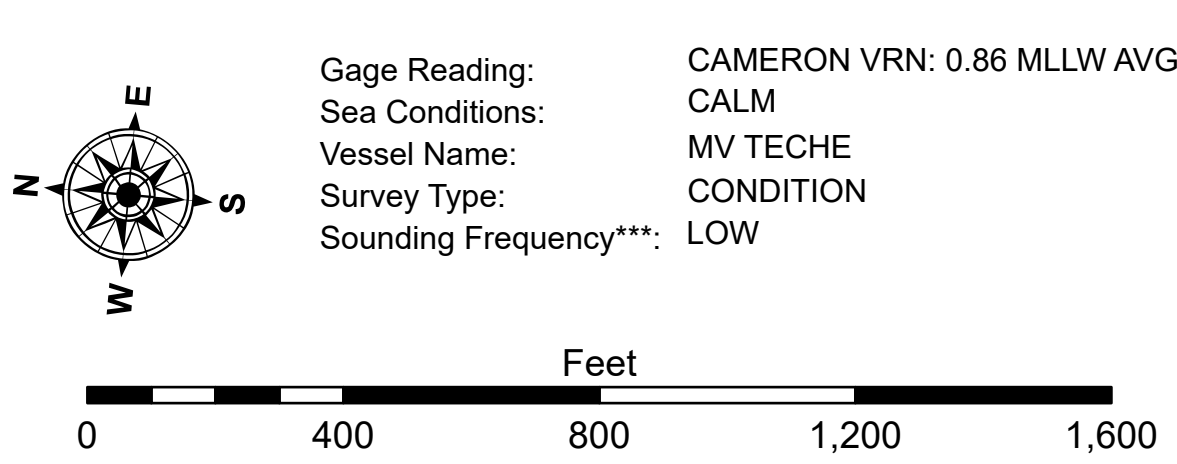




LEGEND							
 Federal Navigation Channel	 Cable Area	 Fluff Thickness (feet)*				-16' and above	
 Federal Navigation Center Line	 Placement Area	 Shoalest Sounding**				-16' to -21'	
 As-built Pipeline/Cable	 Anchorage Area	 Beacon, General				-21' to -26'	
 Unconfirmed Pipeline/Cable	 Obstruction Point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



NOTES: 467,000

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 given in feet and indicate depths below Mean Lower Low Water Datum (MLLW).
Datum Relationships for gage 73650 as of December 2013:
0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' 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.

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 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 bathymeter

Sheet
Reference
Number
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