

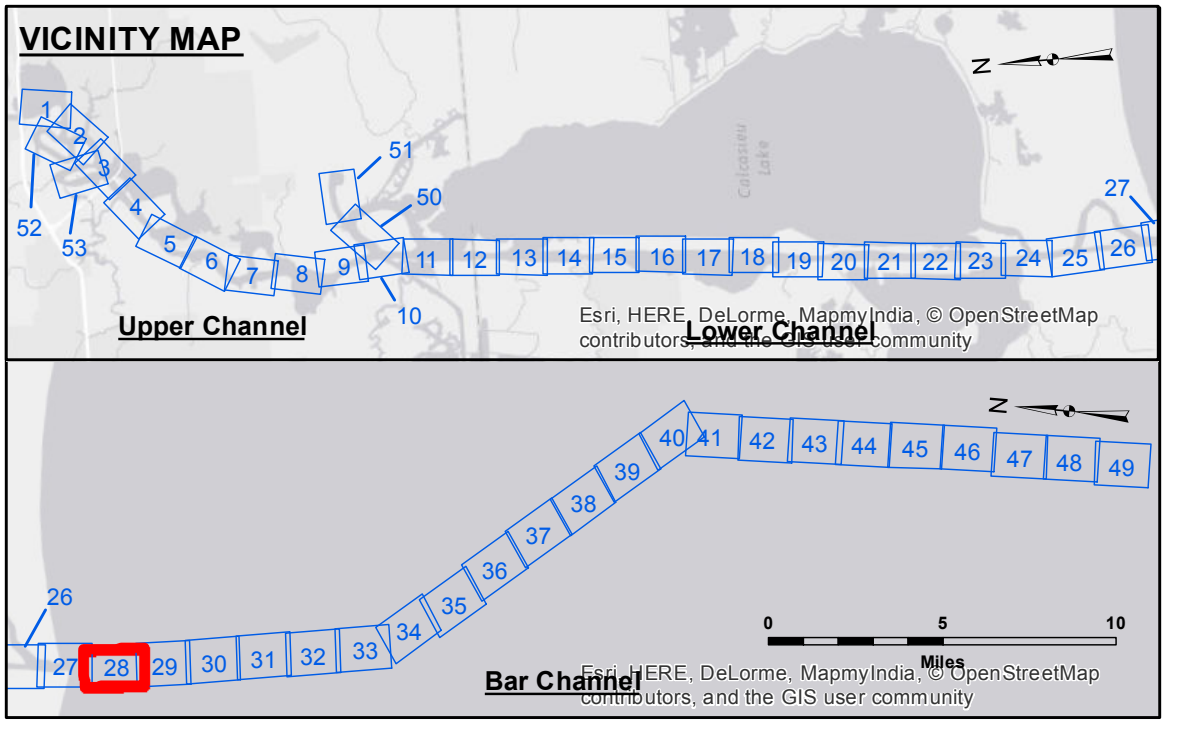
**DISCLAIMER**  
 The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, and reliability of the data for their intended purpose. The user is not to be held liable for any damage or injury resulting from the use of this data. The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The user is responsible for the accuracy, completeness, and reliability of the data for their intended purpose. The user is not to be held liable for any damage or injury resulting from the use of this data.

Submitted:	Surveyed By: SP-SR
Recommended:	Plotted By: MS
Approved:	Checked By: MS

U.S. ARMY CORPS OF ENGINEERS  
 NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL**  
**BAR SHEET 28**  
**CR\_28\_BAR\_20170923\_CS**  
**23 September 2017**

**Sheet Reference Number**  
**28 of 53**



LEGEND	
--- Federal Navigation Channel	● Cable Area
— Federal Navigation Center Line	■ Placement Area
— As-built Pipeline/Cable	⊗ Obstruction Point
..... Unconfirmed Pipeline/Cable	✈ Wrecks-Submerged
— Project Depth Contour	★ Beacon, General
3 Fluff Thickness (feet)*	◆ Red Navigation Buoy
● Shoalest Sounding**	◆ Green Navigation Buoy
■ -15' and above	
■ -15' to -20'	
■ -20' to -25'	
■ -25' to -32'	
■ -32' to -38'	
■ -38' to -40'	
■ -40' to -42'	
■ -42' and below	

Gage Reading: CAMERON: 2.55 MLG  
 Sea Conditions: CALM  
 Vessel Name: M/V TECHE  
 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 Low Gulf Datum (MLG). 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 based on and provided by the U.S. Coast Guard and USACE survey crews.  
 2015 Aerial Photography data source: NAIP  
 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.