

**US Army Corps of Engineers District: CEMVN**

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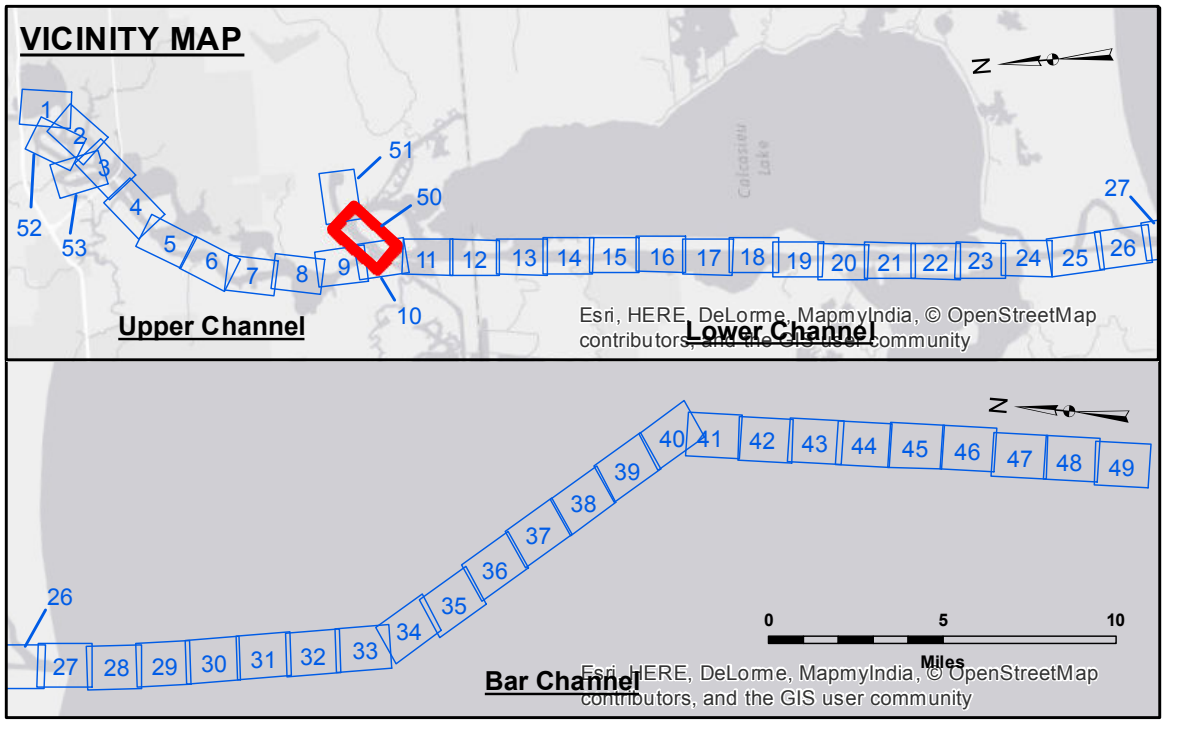
**Disclaimer:** The information depicted on this map represents the results of a survey conducted by the United States Army Corps of Engineers. The information is provided for informational purposes only and is not to be used for navigation or other purposes. The user is responsible for the results obtained therefrom.

Submitted:	Surveyed By:	Plotted By:	Checked By:
Recommended:	SPS:JH	AO	AC
Approved:	Chief, Survey Section		
	Chief, Waterways Maintenance Section		

U.S. ARMY CORPS OF ENGINEERS  
NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL**  
**DEVIL'S ELBOW - SH 1**  
**CR\_50\_DE1\_20170910\_CS\_POSTSTORM**  
**10 September 2017**

**Sheet Reference Number**  
**50 of 53**



LEGEND	
	Federal Navigation Channel
	Federal Navigation Center Line
	As-built Pipeline/Cable
	Unconfirmed Pipeline/Cable
	Project Depth Contour
	Cable Area
	Placement Area
	Anchorage Area
	Obstruction Point
	Wrecks-Submerged
	Fluff Thickness (feet)*
	Shoalest Sounding**
	Beacon, General
	Red Navigation Buoy
	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: RANGE D: 2.85 MLG  
Sea Conditions: 1'  
Vessel Name: M/V TECHE  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

0 400 800 1,200 1,600  
Feet

**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 73585 as of December 2013:  
0.0' NAVD83 (OPUS 2013) = 0.8' MLLW = 1.8' 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.

2015 Aerial Photography data source: NAIP  
Reference is N.O.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.