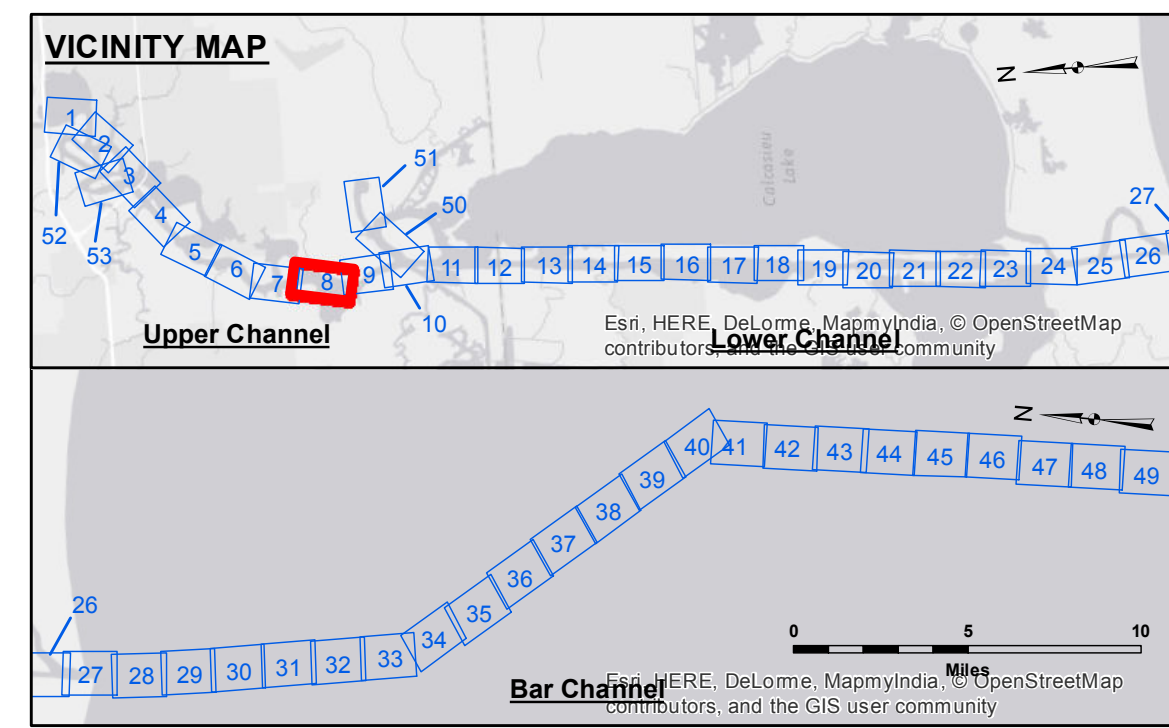


Sheet 7

Sheet 8

Sheet 9



LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Beacon, General
	As-built Pipeline/Cable		Red Navigation Buoy
	Unconfirmed Pipeline/Cable		Green Navigation Buoy
	Project Depth Contour		Shoalest Sounding**
	Cable Area		Fluff Thickness (feet)*
	Anchorage Area		
	Obstruction Point		
	Wrecks-Submerged		

Gage Reading: RANGE E: 2.8 MLG
 Sea Conditions: CALM
 Vessel Name: MV TECHE
 Survey Type: M/V
 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 73575 as of December 2013: 0.0' NAVD88 (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.



DISTRIBUTION LIABILITY: The data represents the results of a collection of data for a specific US Army Corps of Engineers project. It is only valid for its intended use, control, time and accuracy specifications. The user is responsible for the results. Application of the data for other than its intended purpose. Data Constants: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging, sedimentation, and other factors. The user is responsible for the hydrographical conditions when developing the data of a project. The information depicted on this map represents the results of a survey conducted on the date indicated. It is not intended to represent the general condition existing at that time.

Submitted:	Surveyed By: SPS,JH
Recommended:	Plotted By: BD
Approved:	Checked By: AC

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 8
 CR_08_UPR_20160920
 20 September 2016**

**Sheet Reference Number
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