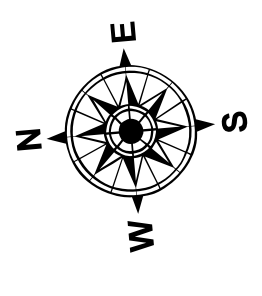


LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Borrow Area
	As-built Pipeline/Cable		Shoalest Sounding**
	Unconfirmed Pipeline/Cable		Beacon, General
	Project Depth Contour		Red Navigation Buoy
	Cable Area		Green Navigation Buoy
	Anchorage Area		-15' and above
	Obstruction Point		-15' to -20'
	Wrecks-Submerged		-20' to -25'
			-25' to -32'
			-32' to -38'
			-38' to -40'
			-40' to -42'
			-42' and below



Gage Reading: HACKBERRY: 3.27 MLG
 Sea Conditions: CALM
 Vessel Name: M/V TECHE
 Survey Type: CONDITION
 Sounding Frequency***: LOW

Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Low Gull Datum (MLG).
 Datum Relationships for gage 73595 as of December 2013:
 0.0' NAVD83 (OPUS 2013) = 0.9' MLLW = 1.9' 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.

2010 Aerial Photography data source: NAIP
 Reference is N.O.A.A. Navigation Chart No. 11339.

** 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.



DISCLAIMER
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the Government makes no warranty, expressed or implied, regarding the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information furnished. The user is responsible for the results obtained from the use of this information. Application of the data for other than its intended purpose is at the user's risk. The user is responsible for the results obtained from the use of this information. Application of the data for other than its intended purpose is at the user's risk. The user is responsible for the results obtained from the use of this information. Application of the data for other than its intended purpose is at the user's risk.

Submitted:	Surveyed By: SPS/JH
Recommended:	Plotted By: BTJ
Approved:	Checked By: TAF

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 13
 CR_13_LWR_20160609
 09 June 2016**

**Sheet Reference Number
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