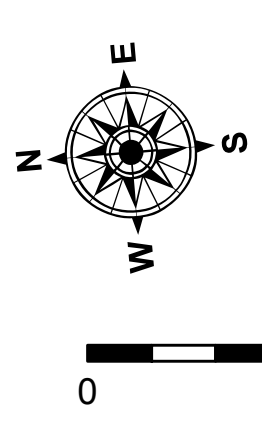


LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Obstruction Point
	As-built Pipeline/Cable		Wrecks-Submerged
	Unconfirmed Pipeline/Cable		Cable Area
	Project Depth Contour		Beacon, General
	Fluff Thickness (feet)*		Red Navigation Buoy
	Shoalest Sounding**		Green 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: HACKBERRY: 3.5 MLG AVG
 Sea Conditions: CALM
 Vessel Name: 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 73600 as of December 2013: 0.0' NAVD83 (OPUS 2010) = 1.0' MLLW = 2.0' 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.



Access/Use: The United States Government furnishes these data and the recipient accepts and uses them with the express warranty, availability or suitability for any particular purpose of the recipient. The user is responsible for the results. The user shall not be liable for any damage or injury resulting from the use of these data. These data are provided as a courtesy and are not to be used for any purpose other than that for which they were intended. The user shall not be held liable for any damage or injury resulting from the use of these data. The user shall not be held liable for any damage or injury resulting from the use of these data. The user shall not be held liable for any damage or injury resulting from the use of these data.

Submitted:	SR, JH
Reviewed:	AO
Checked:	AO

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
 Chief, Waterways Maintenance Section

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 14
 CR_14_LWR_20170426_CS
 26 April 2017**

**Sheet Reference Number
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