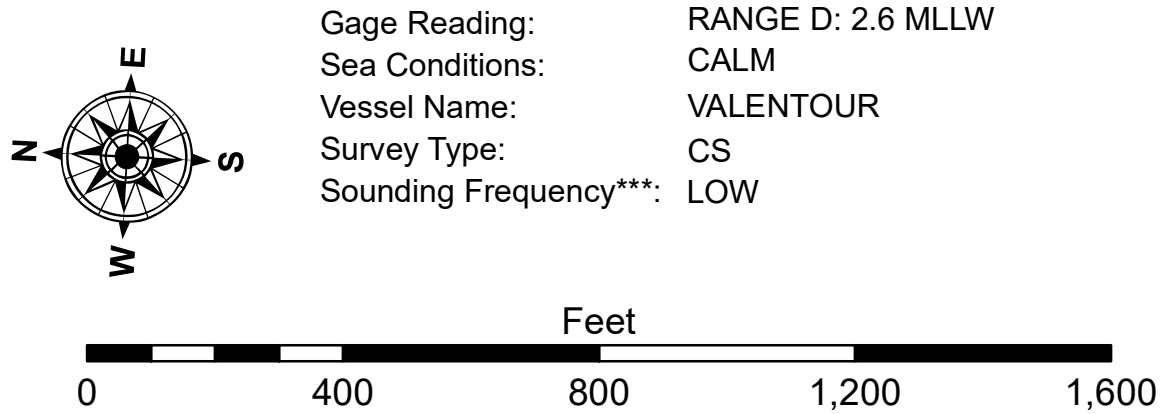


LEGEND			
--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-16' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-16' to -21'
— As-built Pipeline/Cable	□ Anchorage Area	☆ Beacon, General	-21' to -26'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-26' to -33'
— Project Depth Contour	⚓ Wrecks-Submerged	◇ Green Navigation Buoy	-33' to -39'
			-39' to -41'
			-41' to -43'
			-43' and below



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 Lower Low Water Datum (MLLW). 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.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.



DISCLAIMER:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared. The user is responsible for the results of any use of these data. The United States Government does not warrant the accuracy, completeness, or reliability of the data for other than the intended purpose.
 Data Constraints: Hydrographic survey data is subject to change and may not reflect the most current conditions. The user is responsible for verifying the data for use in any project. The Army Corps of Engineers accepts no responsibility for change in the hydrographic conditions which develop after the date of the survey. The information depicted on this map represents the results of a survey conducted under contract to the Corps of Engineers. The Corps of Engineers does not warrant the accuracy of the information depicted on this map. The Corps of Engineers does not warrant the accuracy of the information depicted on this map. The Corps of Engineers does not warrant the accuracy of the information depicted on this map.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT			
Submitted:	Surveyed By: JH, JA	Plotted By: AO	Checked By: AC
Recommended:	Chief, Survey Section		
Approved:	Chief, Waterways Maintenance Section		

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 10
 CR_10_UPR_20190716_CS_POSTSTORM
 16 July 2019**

**Sheet Reference Number
 10 of 53**

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