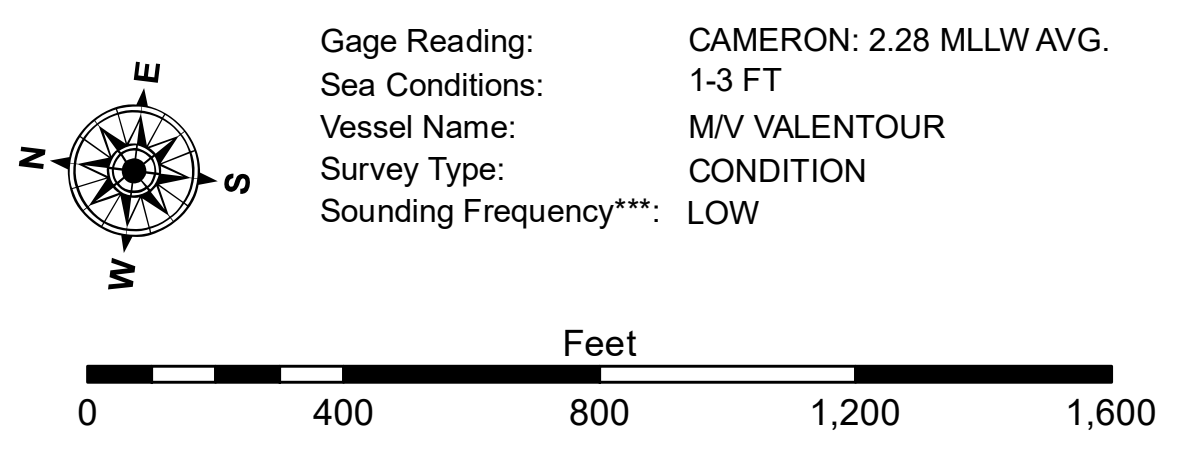


LEGEND			
	Federal Navigation Channel		Placement Area
	Federal Navigation Center Line		Anchorage Area
	As-built Pipeline/Cable		Obstruction Point
	Unconfirmed Pipeline/Cable		Wrecks-Submerged
	Project Depth Contour		Fluff Thickness (feet)*
	Cable Area		Shoalest Sounding**
	Beacon, General		Red Navigation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



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 73650 as of December 2013: 0.0' NAVD88 (2009.55) = 1.3' MLLW = 2.3' 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 based 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

Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are provided for informational purposes only. The data are not to be used for any purpose other than that for which they were originally collected, and the user is responsible for determining the suitability, usability, or reliability for any particular purpose of the data. The user is responsible for determining the accuracy, completeness, and timeliness of the data. The user is responsible for determining the applicability of the data for their intended purpose. The user is responsible for determining the accuracy, completeness, and timeliness of the data. The user is responsible for determining the applicability of the data for their intended purpose.

LEGAL NOTICE

The information depicted on this map represents the results of a hydrographic 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 any purpose other than that for which it was originally collected. The user is responsible for determining the suitability, usability, or reliability for any particular purpose of the data. The user is responsible for determining the accuracy, completeness, and timeliness of the data. The user is responsible for determining the applicability of the data for their intended purpose.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: RYLAND/ADAMS	Plotted By: BD
Recommended:	Checked:	Checked By: AC
Approved:	Chief, Waterways Maintenance Section	

CALCASIEU SHIP CHANNEL
BAR SHEET 31
CR_31_BAR_20190530_CS
30 May 2019

Sheet Reference Number
31 of 53