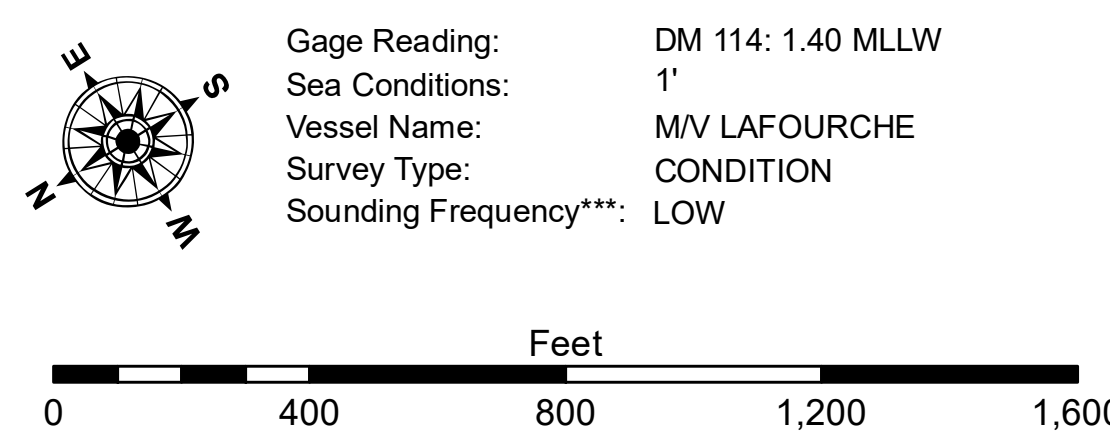


| LEGEND | | | |
|--------|--------------------------------|--|-------------------------|
| | Federal Navigation Channel | | -16' and above |
| | Federal Navigation Center Line | | -16' to -21' |
| | As-built Pipeline/Cable | | -21' to -26' |
| | Unconfirmed Pipeline/Cable | | -26' to -33' |
| | Project Depth Contour | | -33' to -39' |
| | Cable Area | | -39' to -41' |
| | Placement Area | | -41' to -43' |
| | Anchorage Area | | -43' and below |
| | Obstruction Point | | Fluff Thickness (feet)* |
| | Wrecks-Submerged | | 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 73565 as of December 2013: 0.0' NAVD88 (OPUS 2013) = 0.6' MLLW = 1.6' 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:
 The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared, or implied concerning the accuracy, completeness, reliability, usability or availability for any particular purpose of the recipient. The user is responsible for the results of any use of the data. The United States Government makes no warranty, express or implied, for the data. The recipient may not transfer these data to others without also transferring this Disclaimer. The information depicted on this map represents the results of a survey conducted on or about the date of the survey and is not intended to represent the general condition existing at that time.

| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | | |
|--|--------------------------------------|-------------------|
| Submitted: | Surveyed By: SPS JH | Plotted By: BD |
| Recommended: | Checked By: AC | Checked By: AC |
| Approved: | Chief, Waterways Maintenance Section | |

**CALCASIEU SHIP CHANNEL
 UPPER SHEET 5
 CR_05_UPR_20180501_CS
 01 May 2018**

**Sheet Reference Number
 5 of 53**