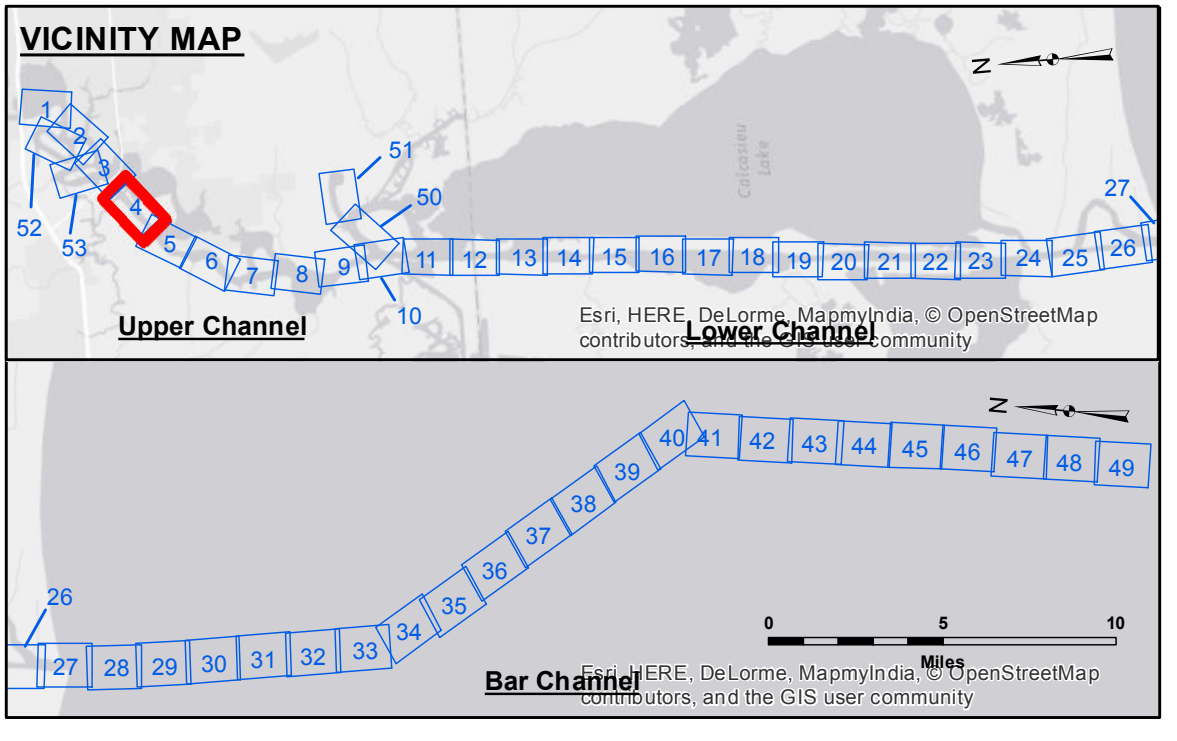


Access to Information
 The information depicted on this map represents the results of a hydrographic survey conducted by the U.S. Army Corps of Engineers. The information is provided for informational purposes only and is not intended to be used for navigation. The user is responsible for the accuracy, reliability, usability, or availability of any information derived from this map. The information is provided as is, without warranty of any kind, including but not limited to the accuracy, reliability, usability, or availability of the information. The user is responsible for the accuracy, reliability, usability, or availability of any information derived from this map. The information is provided as is, without warranty of any kind, including but not limited to the accuracy, reliability, usability, or availability of the information. The user is responsible for the accuracy, reliability, usability, or availability of any information derived from this map.

Submitted:	Surveyed By: SUR, JDH
Revised:	Plotted By: BID
Approved:	Checked By: TAF

CALCASIEU SHIP CHANNEL
UPPER SHEET 4
CR_04_UPR_20150414
14 April 2015



LEGEND	
--- Federal Navigation Channel	● Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	⚓ Wrecks-Submerged
□ Borrow Area	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ Green Navigation Buoy

Gage Reading: DM 114: 1.7 MLG
 Sea Conditions: CALM
 Vessel Name: MV 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 73565 as of December 2013:
 0.0' NAVD83 (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.

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.

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