



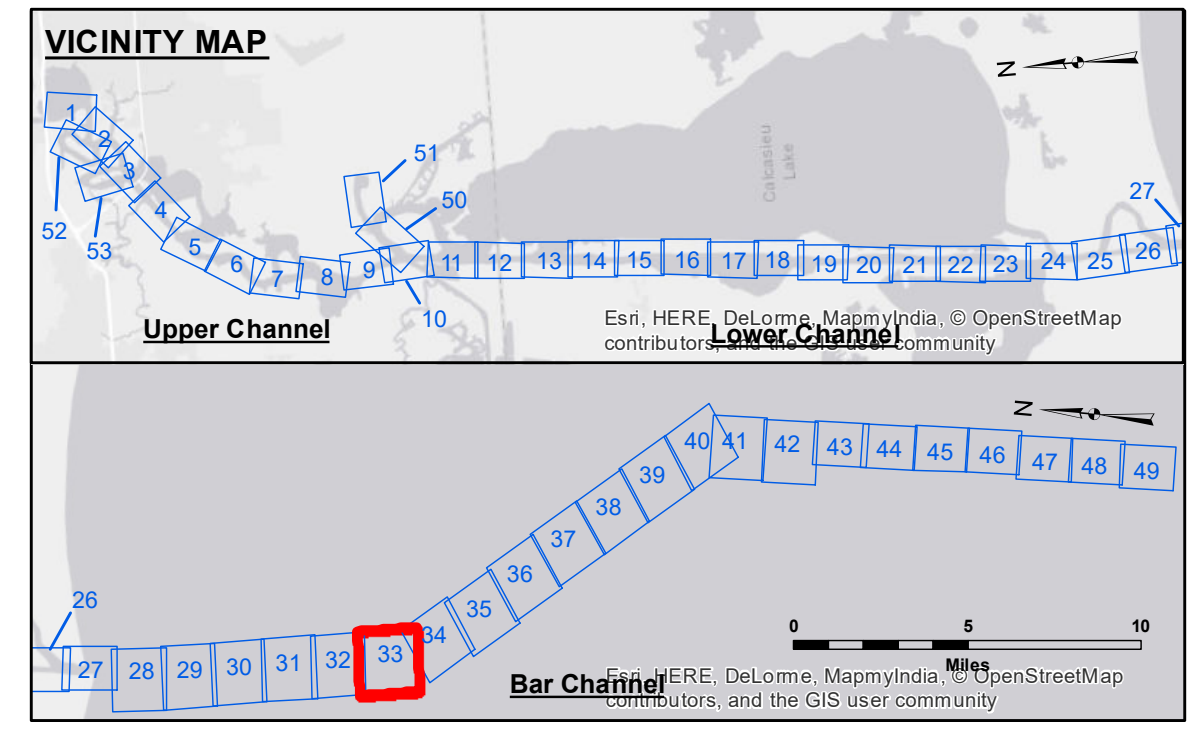
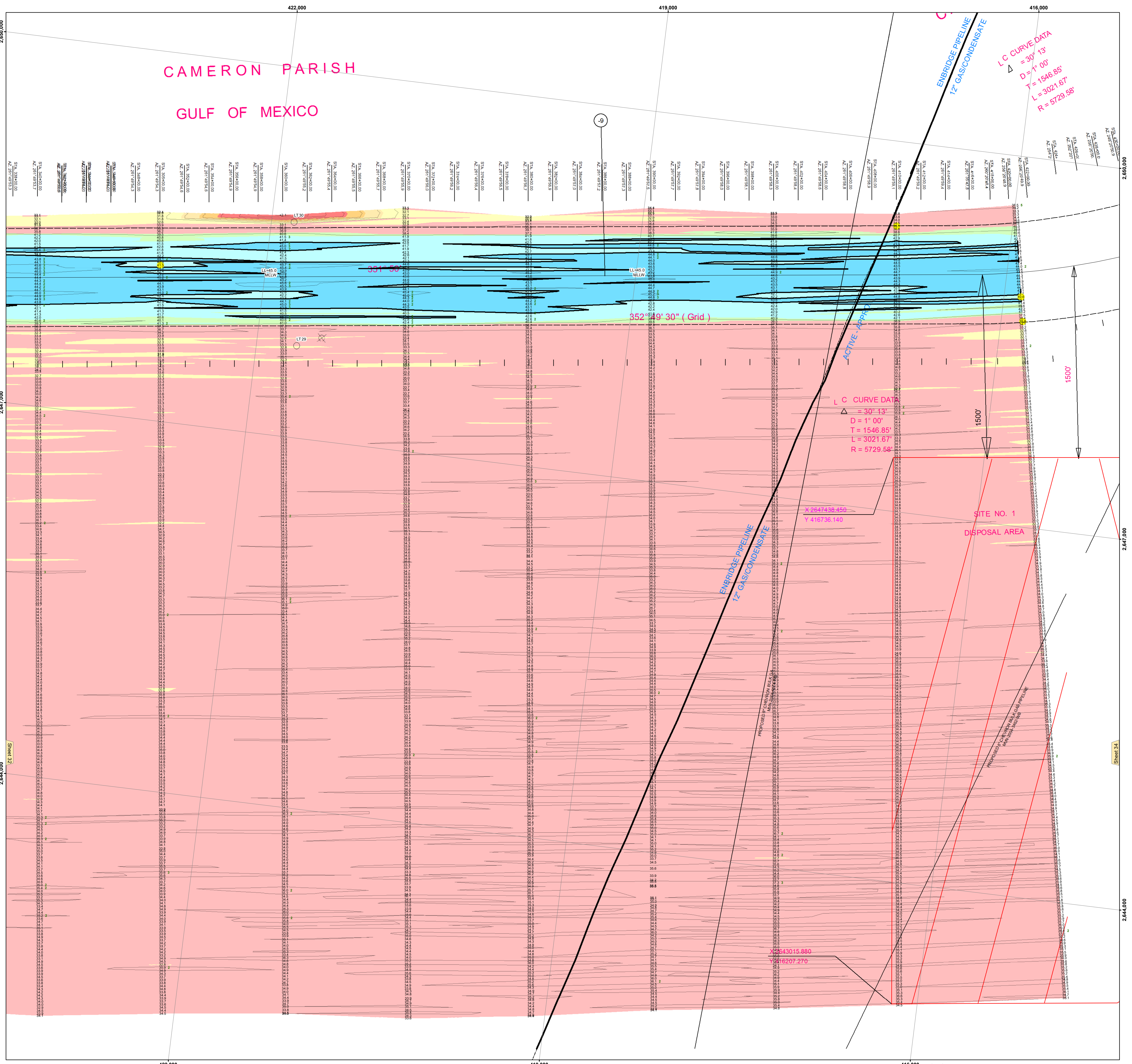
**DISCLAIMER**  
The United States Government furnishes this information for the general information of the recipient and does not warrant the accuracy, reliability, or completeness of the information. The user is responsible for the use of the information and for the results of any actions taken based on the information. The user is also responsible for the accuracy, reliability, or completeness of the information. The user is also responsible for the accuracy, reliability, or completeness of the information. The user is also responsible for the accuracy, reliability, or completeness of the information.

**U.S. ARMY CORPS OF ENGINEERS**  
NEW ORLEANS DISTRICT  
Submitted By: J.L.A.J.H.  
Reviewed By: B.D.  
Checked By: A.O.

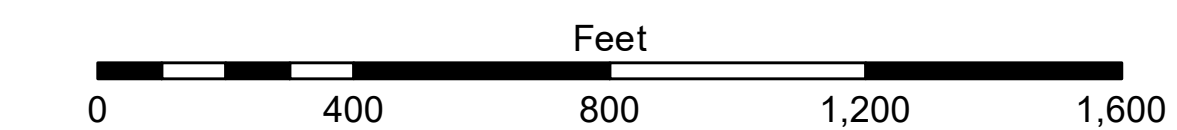
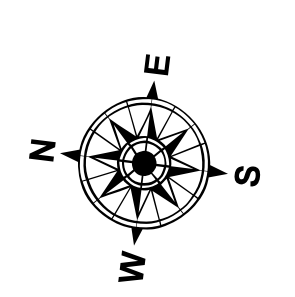
**CALCASIEU SHIP CHANNEL**  
BAR SHEET 33  
CR\_33\_BARX\_20180613\_AD  
13 June 2018

**Sheet Reference Number**  
33 of 53

Revision Number: 3.1.2016011



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
3 Fluff Thickness (feet)*	● Shoalest Sounding**
★ Beacon, General	★ Red Navigation Buoy
◆ Green Navigation Buoy	



Gage Reading: CAMERON: 2.04 MLLW  
Sea Conditions: 2-3'  
Vessel Name: M/V BURRWOOD  
Survey Type: AD  
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 Lower Low Water Datum (MLLW). Datum Relationships for page 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. 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.