

**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

Gage Reading: HACKBERRY: 73600  
 Sea Conditions: CALM  
 Vessel Name: OB-167  
 Survey Type: CONDITION  
 Sounding Frequency\*\*\*: LOW

Vertical Datum:  
 0.0' NAVD88 (OPUS 2010) = 1.0' MLLW or 0.0' MLLW = 1.0' MLLG

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.

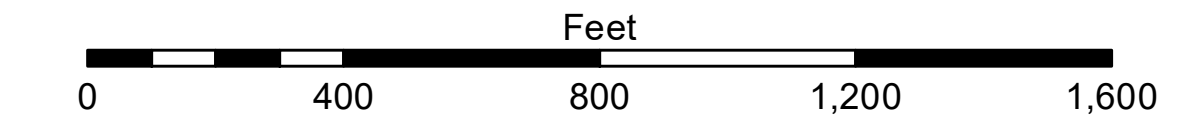
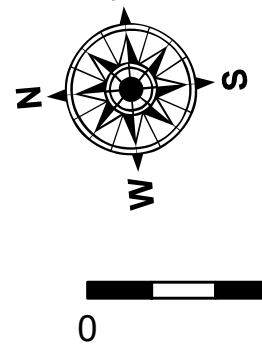
Vertical Datum:  
 Soundings are shown in feet and indicate depths below Mean Lower Low Water Datum (MLLW). Datum Relationships for gage 73600 as of December 2013:  
 0.0' NAVD88 (OPUS 2010) = 1.0' MLLW or 0.0' MLLW = 1.0' MLLG

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.



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Submitted:	Surveyed By: DS, JH
Recommended:	Plotted By: _____
Approved:	Checked By: _____
	Checked By: _____

**CALCASIEU SHIP CHANNEL  
 LOWER SHEET 14  
 CR\_14\_LWR\_20180918\_CS  
 18 September 2018**

**Sheet Reference Number  
 14 of 53**

Revision Number:  
 3.13-20160811