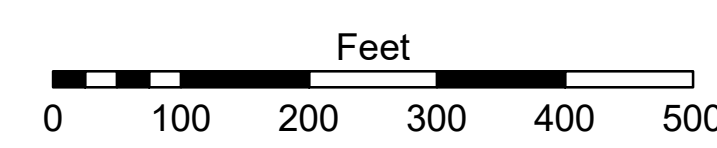
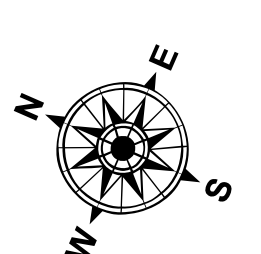


**LEGEND**

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -11' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	□ -11' and below
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General	
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	



Gage Reading: HOUMA STAFF: 1.39 MLLW  
 Sea Conditions: SMOOTH  
 Vessel Name: OB189  
 Survey Type: CS  
 Sounding Frequency\*\*\*: HIGH

**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 76320 as of September 2022: 0.0' NAVD83 (2009.55) = 0.40' MLLW = 1.40' MLG  
 Distances on the Houma Nav. Canal are shown at 1 mile intervals.  
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE survey crews.  
 2019 Aerial Photography data source: NAIP (1998 DOQQ Imagery in green).  
 Reference is N.O.A.A. Navigation Chart No. 11355.  
 \*\* 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 data represented on this map represents the results of a survey conducted by the U.S. Army Corps of Engineers. It is only valid for its intended use, and its accuracy is not guaranteed. The user is responsible for the results of any use of this data. The U.S. Army Corps of Engineers does not accept any liability for damages or losses resulting from the use of this data for any purpose other than that for which it was intended. The U.S. Army Corps of Engineers does not warrant the accuracy of the data for any purpose other than that for which it was intended. The U.S. Army Corps of Engineers does not accept any liability for damages or losses resulting from the use of this data for any purpose other than that for which it was intended.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Submitted:	Surveyed By: DJS/SR	Checked By: AC
Recommended:	Plotted By: AO	Checked By: AC
Approved:	Chief, Survey Section	Chief, Waterways Maintenance Section

**HOUMA NAVIGATION CANAL VICINITY**  
**BAYOU LECARPE**  
**HN\_20\_LEC\_20190910\_CS\_MLLW**  
**10 September 2019**

**Sheet Reference Number**  
**1 of 3**