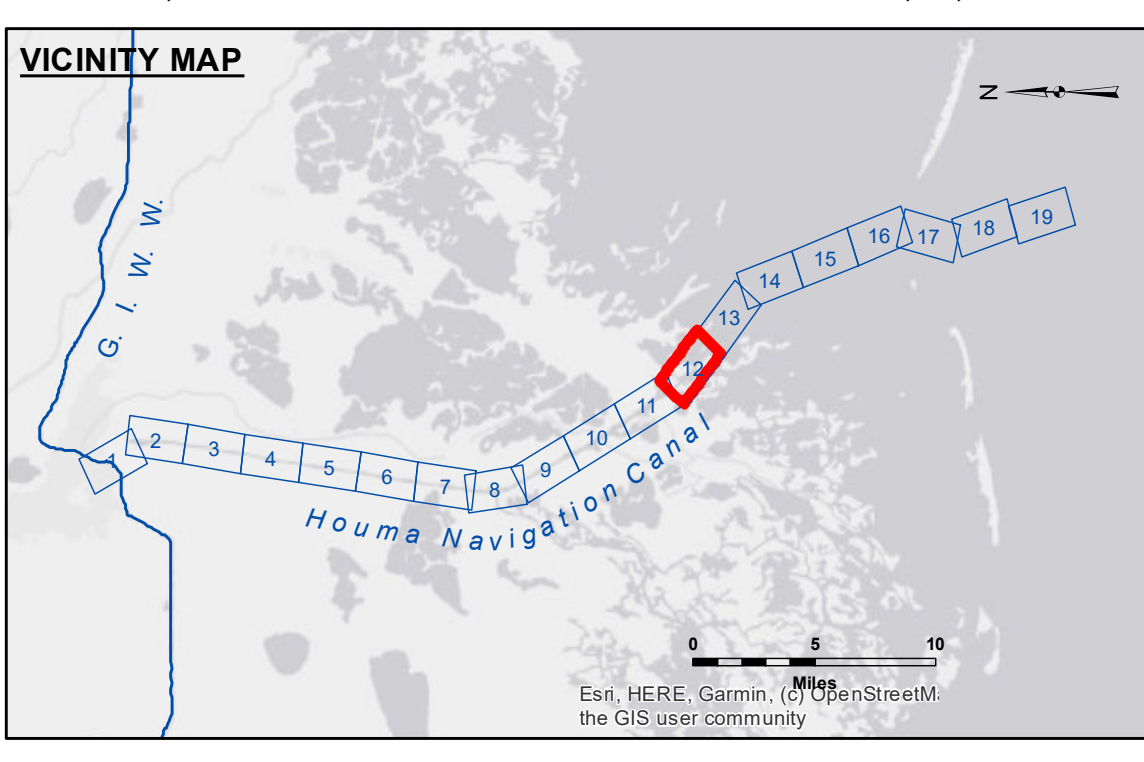


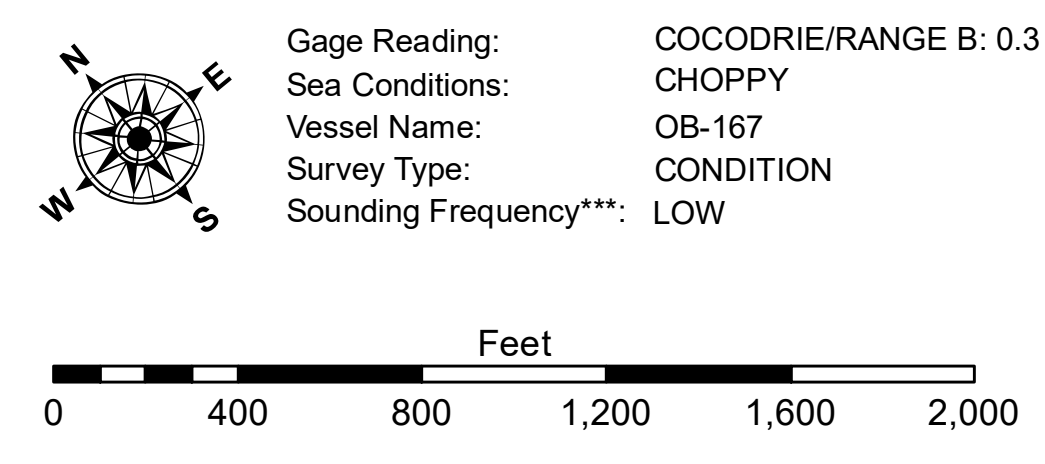
Sheet 11-1321  
Sheet 13

3,493,000 269,000 3,496,000 3,499,000 266,000 3,502,000



**LEGEND**

--- Federal Navigation Channel	○ Cable Area	3 Fluff Thickness (feet)*	-8' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	-8' to -10'
— As-built Pipeline/Cable	⊗ Anchorage Area	☆ Beacon, General	-10' to -12'
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point	◆ Red Navigation Buoy	-12' to -16'
— Project Depth Contour	⚓ Wrecks-Submerged	◆ Green Navigation Buoy	-16' to -19'
			-19' and below



**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 76305 as of September 2022:  
 0.0' NAVD88 (OPUS 2019) = 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.  
 2022 Aerial Photography data source: Optimal GEO, Inc. (1998 DOQQ Imagery in green)  
 Reference is N.O.A. Navigation Chart No. 11355.  
 \* 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 accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results of any use of the data. The United States Government does not warrant the data under no liability whatsoever to any person by reason of any use made of the data. These data are not to be used for any purpose other than that for which they were prepared. The recipient may not transfer these data to others without the written permission of the District Engineer. The information depicted on this map represents the results of a survey conducted on or about the date of the survey. The District Engineer is not responsible for changes in the hydrographical conditions when developed after the date of the survey. Product maintainers should not rely solely upon this information.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT		
Surveyed By: PM,JA	Plotted By: AO	Checked By: AO
Submittal	Chief Survey Section	Chief Waterways Maintenance Section

**HOUMA NAVIGATION CANAL  
 BAY CHANNEL  
 HN\_12\_BAY\_20221207\_CS  
 07 December 2022**

**Sheet Reference Number  
 12 of 19**

Revision Number:  
4.2-20220420