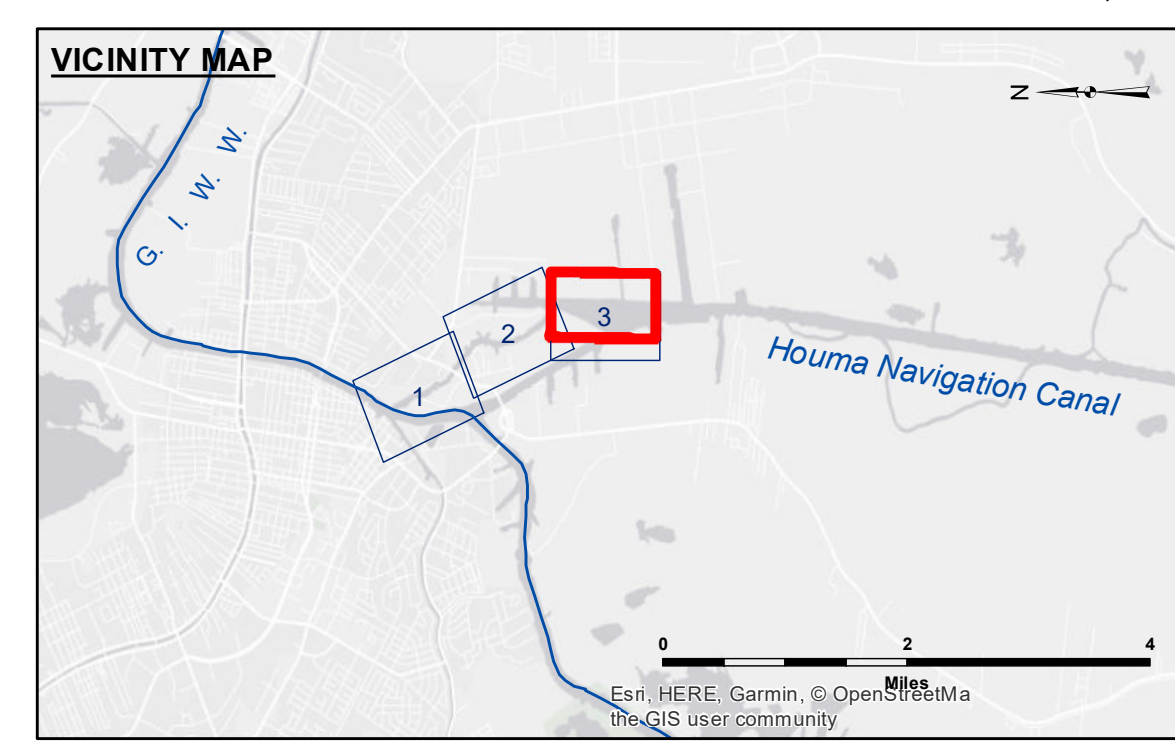
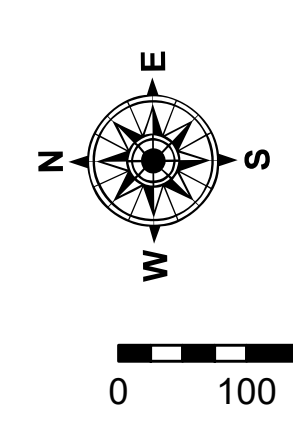


E-11 DATA
 D=3°43'13.42"
 T=277.74'
 S=549.57'
 S40.05'



LEGEND

--- Federal Navigation Channel	○ Cable Area	□ Borrow Area	■ -10' and above
— Federal Navigation Center Line	□ Placement Area	● Shoalest Sounding**	□ -10' 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: 3.7 MLG
 Sea Conditions: CALM
 Vessel Name: OB-189
 Survey Type: CONDITION
 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 Low Gulf Datum (MLG).
 Datum Relationships for 76320 as of July 2014:
 0.0' NAVD83 (2009.55) = 2.42' 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.
 2010 Aerial Photography data source: NAIP
 Reference is N.O.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 United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any purpose other than that for which they were prepared, or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The user is responsible for the results obtained from the use of these data. Application of the data for other than its intended purpose is at the user's risk. The user shall indemnify and hold the United States Government harmless from any liability whatsoever to any person by reason of any use of these data. These data are provided to the recipient under the authority of the General Services Administration and are not to be distributed, reproduced, or used for any purpose other than that for which they were prepared. The recipient may not transfer these data to others without obtaining the permission of the United States Government. The information depicted on this map represents the results of a survey conducted on or about the date indicated and is not to be considered to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT

Submitted:	Surveyed By: RYLAND HOSHMAN
Recommended:	Plotted By: BD
Checked By: AC	Chief, Waterways Maintenance Section

HOUMA NAVIGATION CANAL VICINITY
 BAYOU LECARPE
 HN_22_LEC_20180328_CS
 28 March 2018

Sheet Reference Number
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