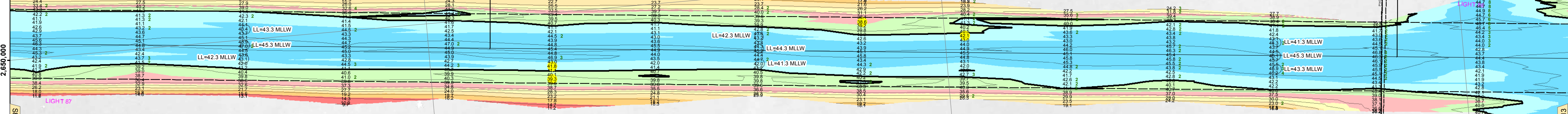
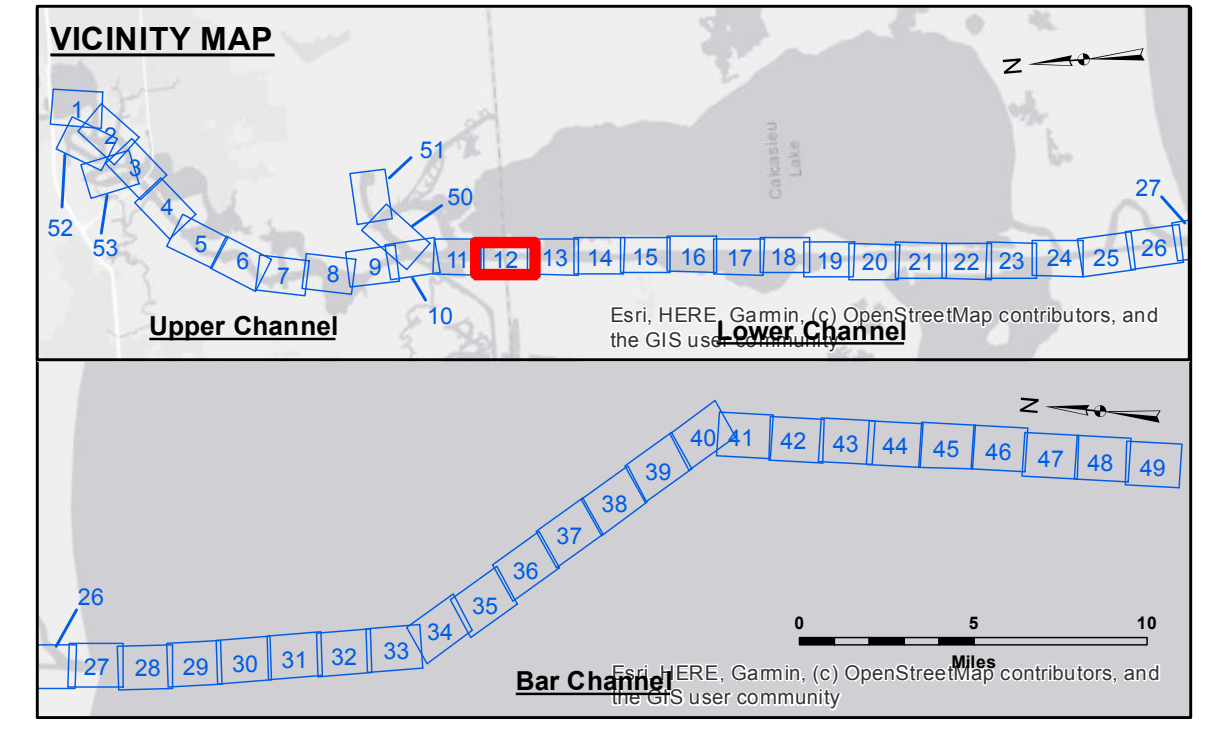


STA. 10+82.00 AZ. 94°32'26.6	STA. 10+80.00 AZ. 94°32'32.6	STA. 10+78.00 AZ. 94°32'16.1	STA. 10+76.00 AZ. 94°35'12.4	STA. 10+74.00 AZ. 94°32'32.6	STA. 10+72.00 AZ. 94°32'26.2	STA. 10+70.00 AZ. 94°32'25.5	STA. 10+68.00 AZ. 94°32'25.6	STA. 10+66.00 AZ. 94°32'26.7	STA. 10+64.00 AZ. 94°32'25.8	STA. 10+62.00 AZ. 94°32'25.7	STA. 10+60.00 AZ. 94°31'12.2	STA. 10+58.00 AZ. 94°32'14.1	STA. 10+56.00 AZ. 94°32'20.3	STA. 10+54.00 AZ. 94°32'21.0	STA. 10+52.00 AZ. 94°32'20.9	STA. 10+50.00 AZ. 94°32'20.0	STA. 10+48.00 AZ. 94°32'20.5	STA. 10+46.00 AZ. 94°32'19.9	STA. 10+44.00 AZ. 94°32'20.3	STA. 10+42.00 AZ. 94°32'20.7	STA. 10+40.00 AZ. 94°32'21.2	STA. 10+38.00 AZ. 94°32'19.9	STA. 10+36.00 AZ. 94°32'19.5	STA. 10+34.00 AZ. 94°32'17.8	STA. 10+32.00 AZ. 94°32'18.3	STA. 10+30.00 AZ. 94°30'17.3	STA. 10+28.00 AZ. 94°32'17.3	STA. 10+26.00 AZ. 94°32'17.5	STA. 10+24.00 AZ. 94°32'17.2	STA. 10+22.00 AZ. 94°32'17.3	STA. 10+20.00 AZ. 94°32'25.6	STA. 10+18.00 AZ. 94°32'2.1	STA. 10+16.00 AZ. 94°34'48.1	STA. 10+14.00 AZ. 94°32'46.2	STA. 10+12.00 AZ. 94°32'21.2	STA. 10+10.00 AZ. 94°32'18.6	STA. 10+08.00 AZ. 94°32'18.1	STA. 10+06.00 AZ. 94°32'18.0	STA. 10+04.00 AZ. 94°32'18.0	STA. 10+02.00 AZ. 94°32'18.0	STA. 10+00.00 AZ. 94°32'18.0
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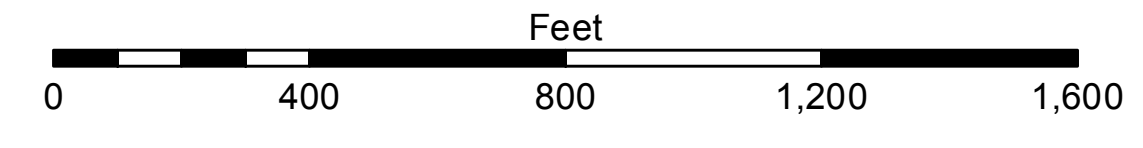
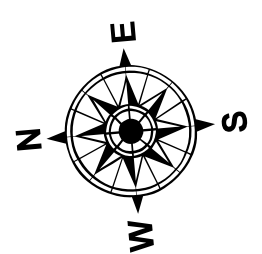


GAS FACILITY NORTH OF HACKBERRY (PILES) - 73595 (0.0' NAVD88 = 0.9' MLLW = 1.9' MLG)



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: DM 86: 1.72 MLLW AVG.
 Sea Conditions: 1'
 Vessel Name: M/V VALENTOUR
 Survey Type: CONDITION
 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 gage 73595 as of December 2013: 0.0' NAVD88 (OPUS 2013) = 0.9' MLLW = 1.9' 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.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.

DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared, or for any other purpose of the United States Government. The user is responsible for the results of any application of the data for other than the intended purpose. Data Constituting Hydrographic Survey Data is subject to change rapidly due to several factors including, but not limited to, changing hydrographic conditions, changes in the bathymetry of the area, and changes in the hydrographic conditions when developed after the date of the survey. The user is responsible for verifying the accuracy of the data for their intended use. The information depicted on this map represents the results of a hydrographic survey conducted on the date indicated. It is not to be used for any purpose other than that for which it was prepared. The user is responsible for the results of any application of the data for other than the intended purpose.

ACCESS: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are not to be used for any purpose other than that for which they were prepared, or for any other purpose of the United States Government. The user is responsible for the results of any application of the data for other than the intended purpose. Data Constituting Hydrographic Survey Data is subject to change rapidly due to several factors including, but not limited to, changing hydrographic conditions, changes in the bathymetry of the area, and changes in the hydrographic conditions when developed after the date of the survey. The user is responsible for verifying the accuracy of the data for their intended use. The information depicted on this map represents the results of a hydrographic survey conducted on the date indicated. It is not to be used for any purpose other than that for which it was prepared. The user is responsible for the results of any application of the data for other than the intended purpose.

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

**CALCASIEU SHIP CHANNEL
 LOWER SHEET 12
 CR_12_LWR_20200616_CS_POSTSTORM
 16 June 2020**

**Sheet Reference Number
 12 of 53**

Revision Number:
 4.1-20191105