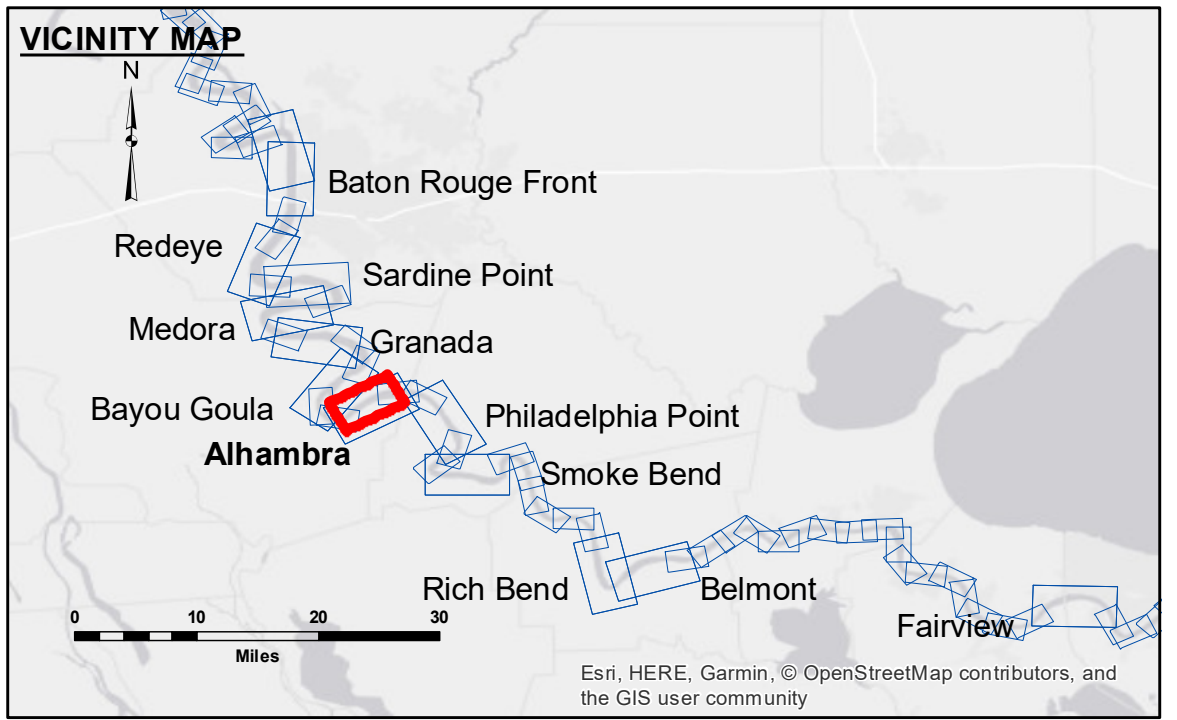


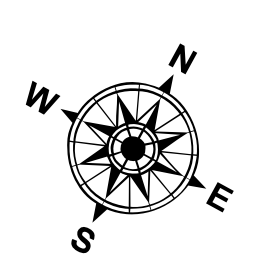
DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the Government makes no warranty, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the information. The user is responsible for the results obtained from the application of the data for other than its intended purpose. The information depicted on this map represents the results of a survey conducted on the ground and is not intended to represent the general condition existing at that time. The information depicted on this map represents the results of a survey conducted on the ground and is not intended to represent the general condition existing at that time.

| | |
|--|-----------------|
| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | |
| Submitted: | Checked By: ACO |
| Recommended: | Checked By: ACO |
| Surveyed By: DJS/SPS | Plotted By: BD |

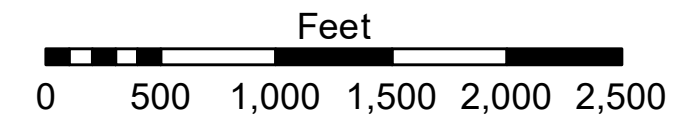
**MISSISSIPPI RIVER - B.R. TO GULF
ALHAMBRA CROSSING
MD_16_ALH_20190618_AD
18 June 2019**



| LEGEND | |
|----------------------------------|----------------|
| --- Federal Navigation Channel | 0' and above |
| — Federal Navigation Center Line | 0' to -5' |
| — As-built Pipeline/Cable | -5' to -10' |
| Unconfirmed Pipeline/Cable | -10' to -20' |
| — Project Depth Contour | -20' to -30' |
| ○ Cable Area | -30' to -35' |
| □ Placement Area | -35' to -40' |
| □ Anchorage Area | -40' to 45' |
| ⊗ Obstruction Point | -45' and below |
| ⊗ Wrecks-Submerged | |
| □ Borrow Area | |
| ● Shoalest Sounding** | |
| ☆ Beacon, General | |
| ◆ Red Navigation Buoy | |
| ◆ Green Navigation Buoy | |



LWRP: 1.7
 Gage Reading: BR:43.4 D:31.3 USED:34.7 NGVD
 Sea Conditions: CALM
 Vessel Name: M/V LAFOURCHE
 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 Low Water Reference Plane 2007 (NGVD).
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.
 2015 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.
 Reference is N.O.A. Navigation Chart No. 11370.
 ** 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.

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