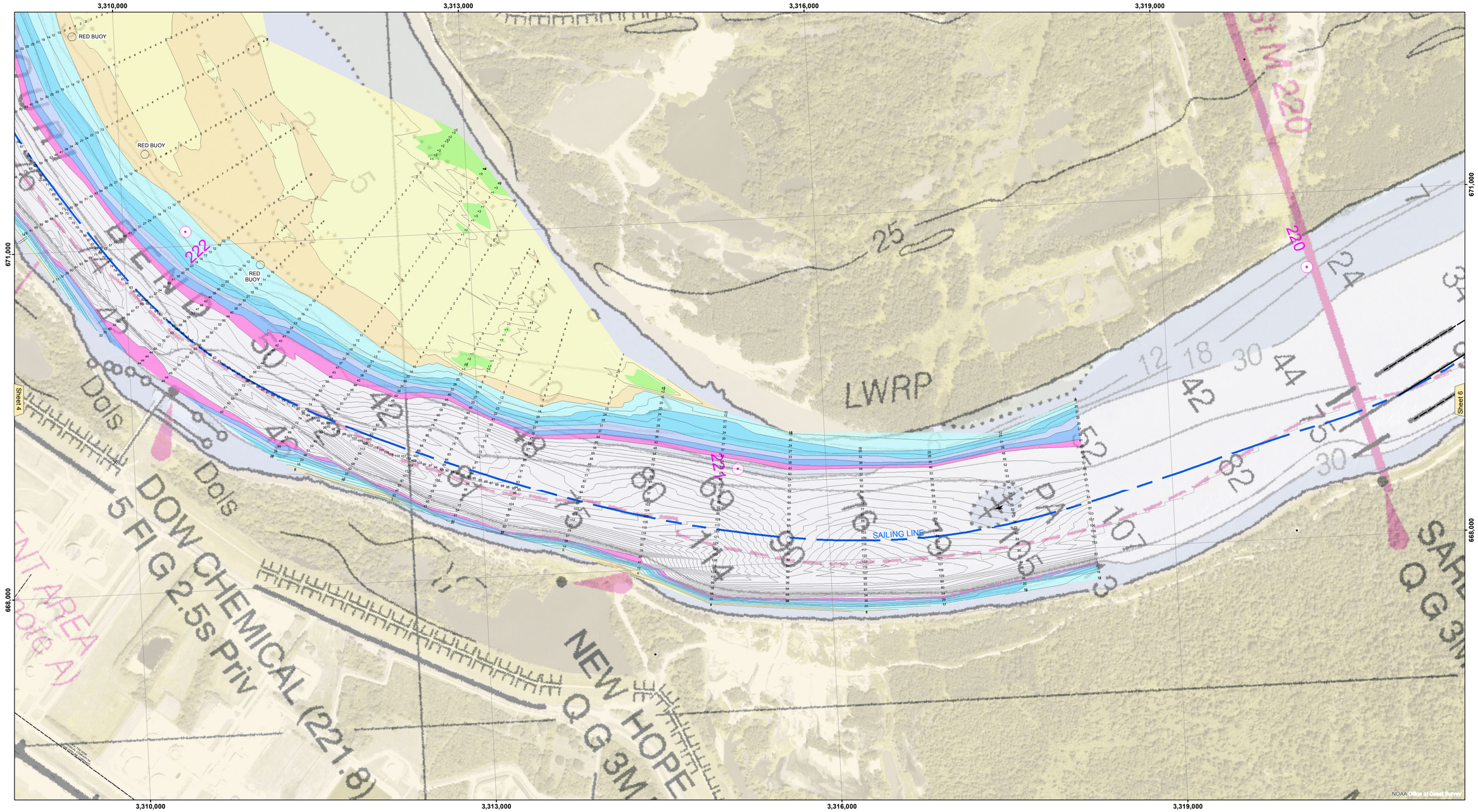


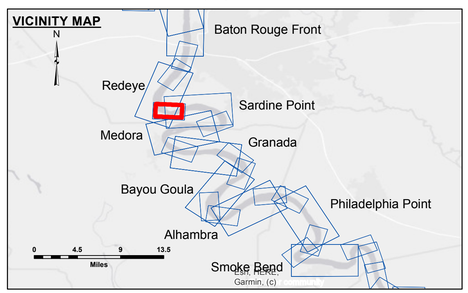


## LEGEND

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

N W E S

| | |
|---|---|
| LWRP: | 2.4 |
| Gage Reading: | BR:21.2 D:12.9 USED:19.9 NAVD |
| Sea Conditions: | CALM |
| Vessel Name: | M/V OB 169 |
| Survey Type: | CONDITION |
| Sounding Frequency***: | HIGH |

Feet
0 500 1,000 1,500 2,000 2,500

**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 (NAVD).

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.

2017 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is N.O.A.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.

US Army Corps of Engineers
District: CEMVN

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The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

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Data Constraints: Hydrographic survey data is subject to change without notice because of the dynamic nature of the waterway activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the waterway that occurred subsequent to the date of this publication. This data is intended for U. S. Army Corps of Engineers' internal use. Please immediately report any safety concern.

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

| | |
|---|---|
| Surveyed By: | RYLAND/MOLLERE |
| Plotted By: | BD |
| Checked By: | AO |

Submitted: _____
Chief, Survey Section
Recommended: _____
Chief, Waterways Maintenance Section
Approved: _____

**MISSISSIPPI RIVER - B.R. TO GULF**
**MISSOURI BEND**
**MD_05_MIBX_20210701_AD**
**01 July 2021**

**Sheet Reference Number**
5 **of** 97

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