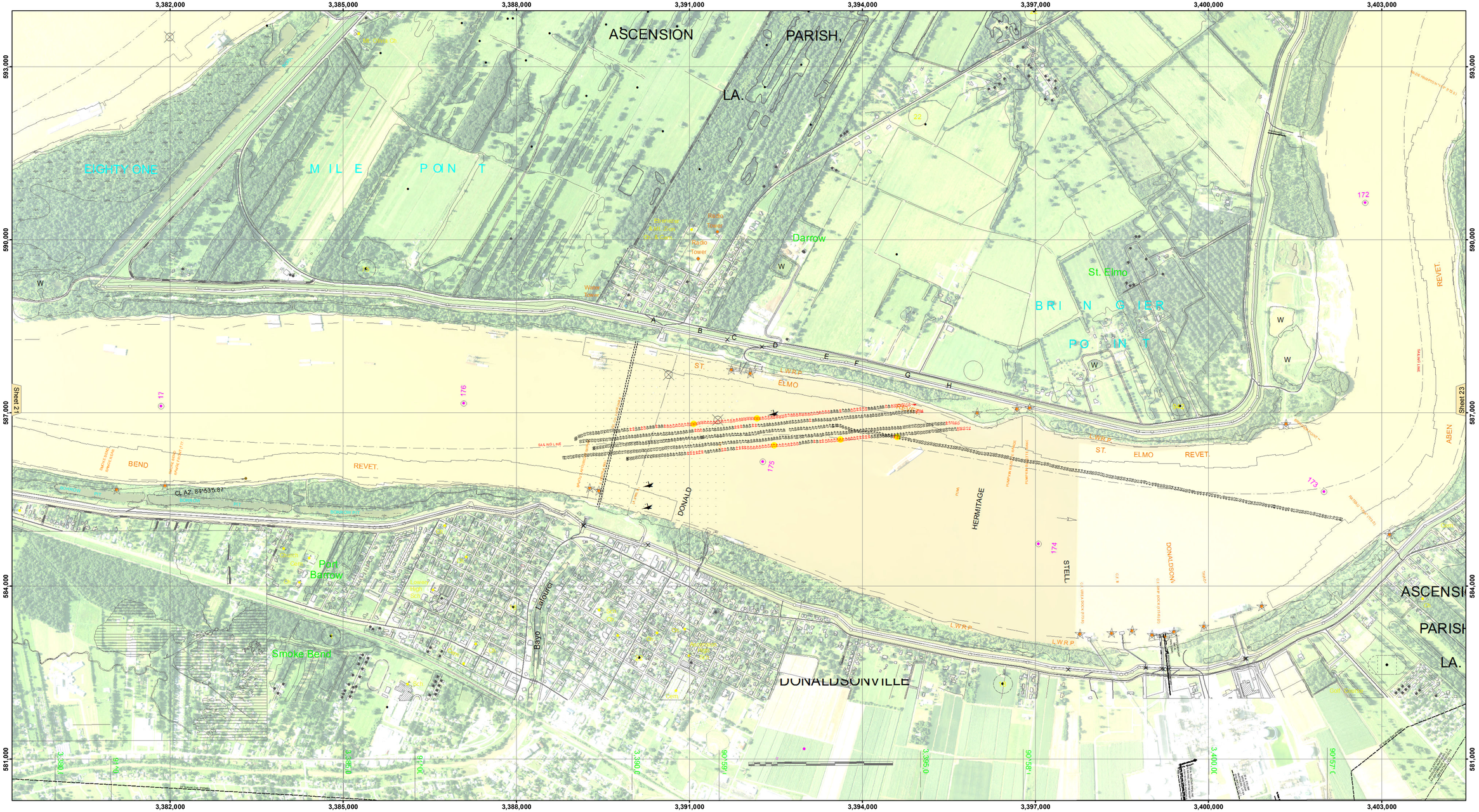


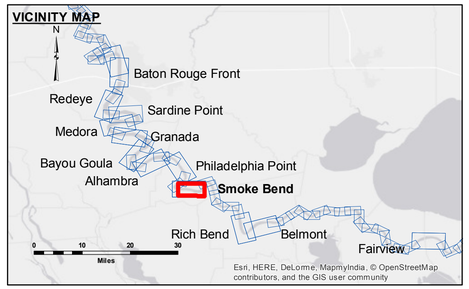


**LEGEND**

- 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
- Borrow 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

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

| | |
|---|---|
| LWRP: | 1.4 |
| Gage Reading: | BR:9.70 D:9.8 USED:9.7 NGVD |
| 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 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.

2010 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

DISCLAIMER
Access Constraints: The United States Government furnishes these data and the US Coast Guard assumes no liability except as expressed, or implied concerning the accuracy, completeness, reliability, usefulness or timeliness of the furnished navigation information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any loss or damage caused by the furnishing of such information or data. The recipient fully agrees not to represent these data to anyone as other than the most current available data and to impose the same order these data to others without also transferring this Disclaimer.

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

Distribution Liability: The data represents the results of data collected by the Corps of Engineers for its own navigation activity and indicates the general existing conditions. As such, it is only valid for its intended use, context, time and accuracy of the original data. The Corps of Engineers assumes no liability of any the application of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change due to natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the condition of the waterway that occur after the date of publication. This data is intended for U. S. Army Corps of Engineers internal use. Product requires trained interpretation and may lacks support.

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NEW ORLEANS DISTRICT

| | |
|---|---|
| Surveyed By: DR, SP | |
| Plotted By: BTD | |
| Checked By: ATO | |

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

# MISSISSIPPI RIVER - B.R. TO GULF
## SMOKE BEND RECON
## MR_22_SMB_20160713
## 13 July 2016

Sheet Reference Number
22 of 97

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3.8.0-20150202