

**DISCLAIMER:** The data represents the results of data collection processing by a specific US Army Corps of Engineers activity and includes the general existing conditions as such. The United States Government makes no warranties, expressed or implied, regarding the accuracy of the data contained herein. The user assumes responsibility for the use of this data. The user is responsible for the results of any use of this data for other than its intended purpose.

**Data Conditions:** Hydrographic data is subject to change rapidly due to several factors including but not limited to dredging and sandbar and scouring processes. The user is responsible for the use of this data for any purpose other than its intended purpose.

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

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: DR: IH
Recommended:	Printed By: BT
Approved:	Checked By: MSK
Chief Survey Section	
Chief Waterway Maintenance Section	

**MISSISSIPPI RIVER - B.R. TO GULF PHILADELPHIA POINT RECON**  
MR\_19\_PHP\_20160331  
31 March 2016

**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.

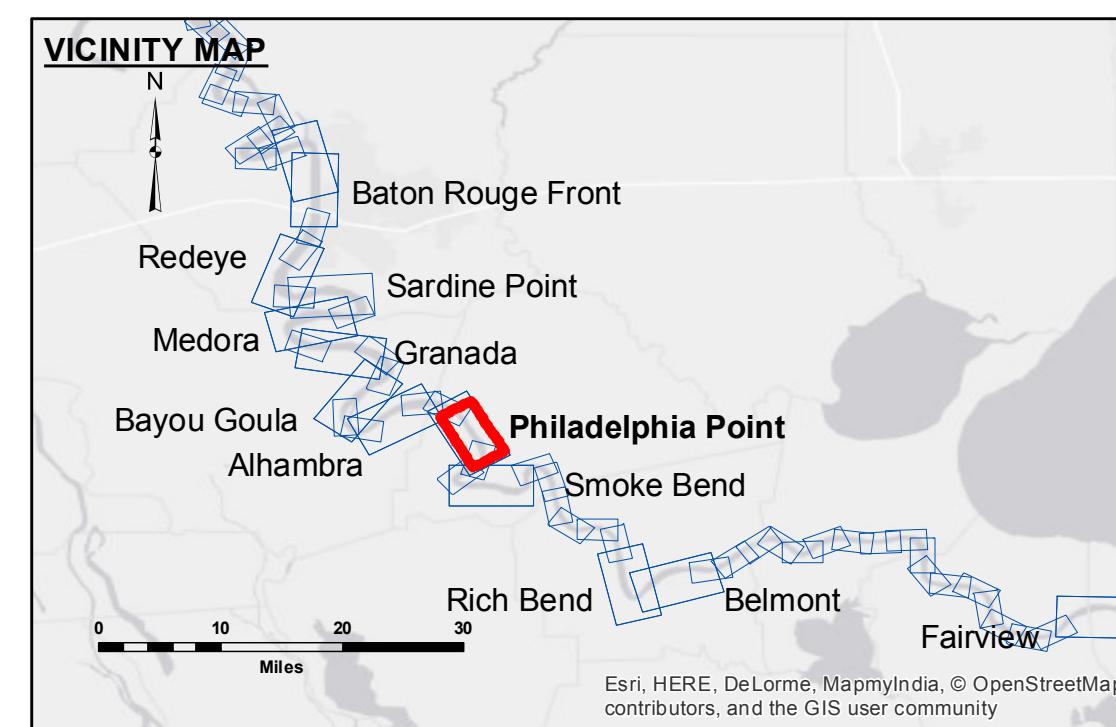
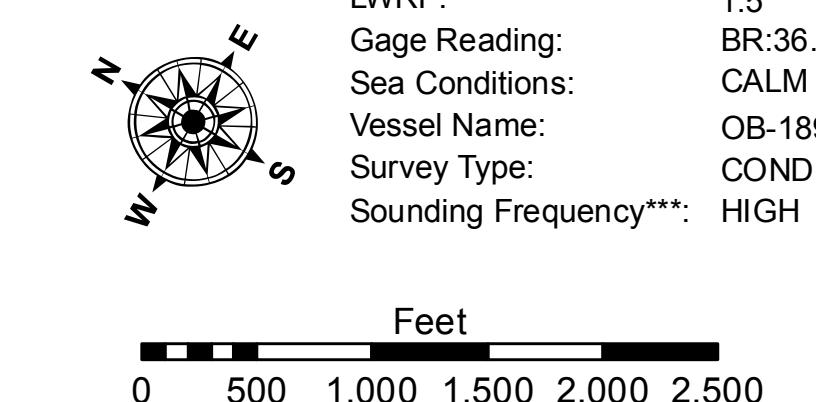
Vertical Datum: Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NGVD). Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.

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.

**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
- ★ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy
- Borrow Area
- Shoalest Sounding\*\*
- ◆ Anchorage Area
- ◆ Obstruction Point
- ◆ Wrecks-Submerged

LWRP:  
Gage Reading: 1.5  
BR:36.75 D:26.45 USED:27.90 NGVD  
Sea Conditions: CALM  
Vessel Name: OB-189  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: HIGH

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3.8.0-20150202