

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

LWRP: 1.5  
Gage Reading: BR:31.16 D:21.52 USED:22.9 NGVD  
Sea Conditions: CALM  
Vessel Name: OB-189  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: HIGH

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

Feet

**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.

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Reference  
Number  
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Revision Number:  
3.12-20160811

US Army Corps of Engineers  
District: CEMVN

Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general accuracy of the data as such. The user is responsible for determining the suitability of the data for their intended application. The user is responsible for the results of any use of the data for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change due to several factors including but not limited to dredging activities and natural shoals and scouring processes.

This information depicts the results of a survey conducted by the U.S. Army Corps of Engineers which develops the hydrographic conditions within the area of interest. The data is intended for U.S. Army Corps of Engineers internal use. Please contact them for more information.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Surveyed By:	SJR, IDH
Submitted:	
Recommended:	One Survey Section
Approved:	One Waterways Maintenance Section

**MISSISSIPPI RIVER - B.R. TO GULF**  
**PHILADELPHIA POINT CROSSING**  
**MD\_19\_PHP\_20180516\_BD**  
16 May 2018