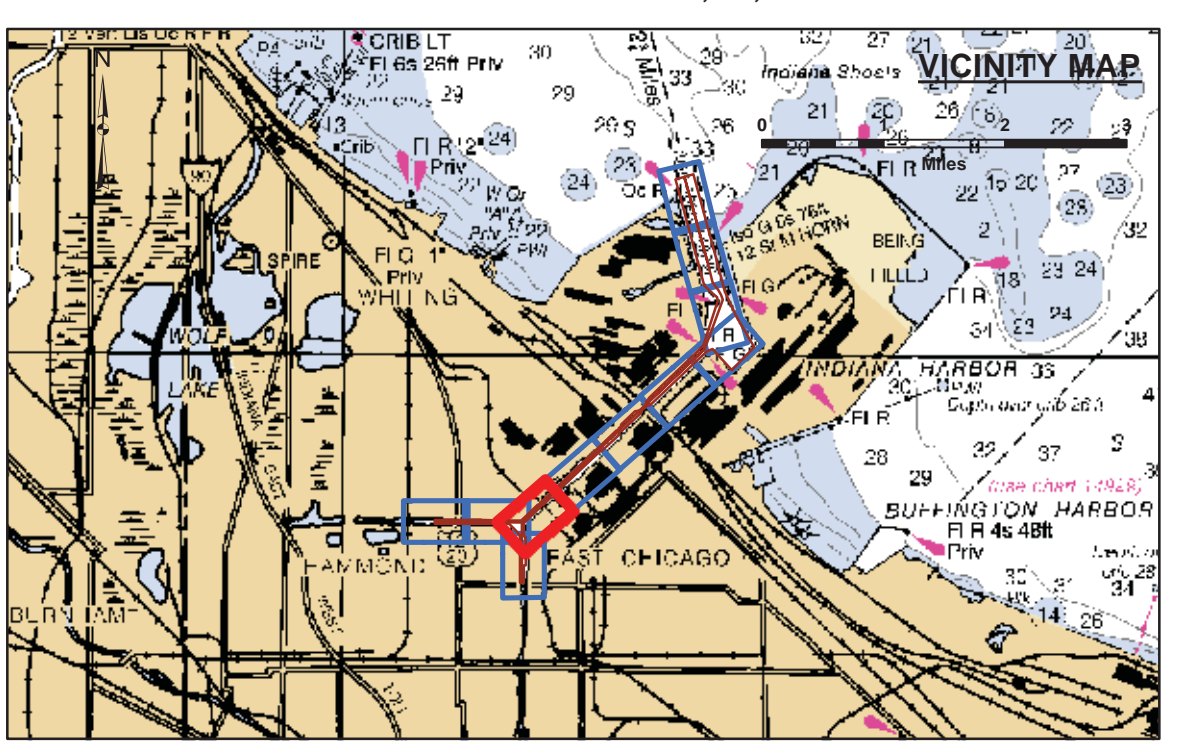


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Surveyed by: Eric Schmidt	Survey Date: Aug. 24, 2015
Reviewed by:	
Path: G:\hydro\products\MMDLCL_01_INH_POST.rmd	

**CHICAGO DISTRICT  
INDIANA HARBOR, INDIANA  
FEDERAL NAVIGATION CHANNEL  
POST SURVEY**

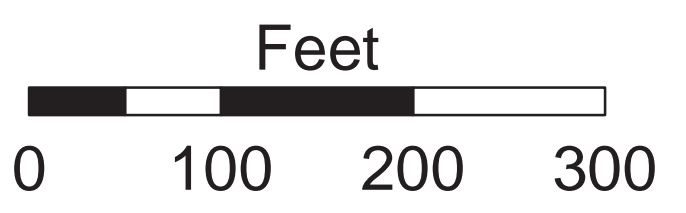


**LEGEND**

	Channel Centerline
	Channel Boundaries

- 4+ Feet Above Authorized Channel Depth
- 2-4 Feet Above Authorized Channel Depth
- 0-2 Feet Above Authorized Channel Depth
- 0-2 Feet Below Authorized Channel Depth
- 2-4 Feet Below Authorized Channel Depth
- 4+ Feet Below Authorized Channel Depth

UNLESS OTHERWISE NOTED PROJECT DEPTH IS 29.0' APPROACH CHANNEL 28.0'



**NOTES:**  
THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH SOUNDING THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOIL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.  
ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT POINT RIMOUSKI QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT WAUKEGAN HARBOR, ILLINOIS. DEPTHS ARE MEASURED USING AN RSONIC 2024 MULTIBEAM SONAR.  
HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSMV VER 4.0  
GRID COORDINATES ARE BASED ON THE INDIANA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, INDIANA WEST (1302), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.  
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON AUG 24, 2015 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

**Sheet  
Reference  
Number  
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