The sounding indicated herein represent the minimum depth found for the area shown. All areas south of the test, showing depths greater than 25 feet, were not tested. The test area was designed to provide for supplementary removal operations and included area 90 feet at each side and 90 feet at each end of the test area. Depths were determined using an acoustic multi-beam scanner. The information reported on this map represents the results of surveys made on April 15, 2014 and can only be considered as indicating the general conditions present at the time.

1. The sounding indicated herein represent the minimum depth found for the area shown. All areas south of the test, showing depths greater than 25 feet, were not tested. The test area was designed to provide for supplementary removal operations and included area 90 feet at each side and 90 feet at each end of the test area. Depths were determined using an acoustic multi-beam scanner.

2. Elevations and sounding depths are referenced to Interagency Great Lakes Datum 1986 (IGLD 86) and Black pavement depth 20 feet below high water level at Front Rocks subject water level readings and Measurements. The sounding data were provided by the U.S. Coast Guard. Elevations and sounding depths are referenced to the National Geodetic Vertical Datum of 1988 (NGVD88).

3. The error in elevation is plus or minus 0 feet. Measurements were made using an acoustic multi-beam scanner.

4. Elevations and sounding depths are referenced to the National Geodetic Vertical Datum of 1988 (NGVD88). Elevations and sounding depths are referenced to the National Geodetic Vertical Datum of 1988 (NGVD88). Elevations and sounding depths are referenced to the National Geodetic Vertical Datum of 1988 (NGVD88).

5. Grid coordinates are based on the Minnesota State Plane Coordinate System, Minnesota Rectangular Projection, 15 Second Zone (State). North American Datum 1983 (NAD83). All coordinates shown are in U.S. survey feet.

6. Unless otherwise noted, water depth is 20 feet below low water datum.
1. The soundings indicated herein represent the minimum depth found in the 10 feet by 10 foot area centered around the spot. Minimum depth data is provided for dredging and removal operations and is subject to navigational requirements.

2. Elevation and sounding depths are referred to mean high water datum at Lake Michigan. Low water datum is 10 feet below mean high water level at Port Huron Control. Elevation and sounding depths are measured using an inertial position system and are referenced to NAVD 88.

3. The information depicted on this map represents the results of surveys made on April 18, 2009, and can only be considered as indicating the general conditions present at the time.

4. Horizontal position 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 GPS receiver is manufactured by Trimble Navigation Model 4000.00.

5. GPS coordinates are based on the Indiana State Plane Coordinate System, Traverse beta correction (project) projection, Indiana West Zone (W.A.7), North American Datum 1983 (NAD83). All coordinates shown are in 4-foot survey feet.

6. Unless otherwise noted project depth is 28-0 feet below low water datum.
1. The numbers indicated herein represent the minimum depth found in the 10 foot by 10 foot area centered around the point. Minimum depth data is provided for structural planning purposes.

2. Elevations and sounding depths are referenced to International Great Lakes datum 1985 0 feet. Low water datum zero is 0.7 feet below mean water level at Point St. George. Water level readings and datum for navigational charting are based on National Geodetic Survey levels.

3. The information depicted on this map represents the results of surveys made on April 7, 2016. All data can only be considered as indicating the general conditions present at the time.

4. Horizontal positioning is referenced using the differential global positioning system (DGPS). The differential corrections are provided by the U.S. Coast Guard Differential Reference Stations. Signal strength is used as the determining factor in differential selection. The GPS receiver is manufactured by Trimble Navigation Model 4700-02, factory version.


6. Unless otherwise noted, project depth is 20.5 feet below low water datum.
1. The soundings indicated herein represent the minimum depth found in the 1/4 foot by 1/2 foot area centered around the test. Minimum depth data is produced for structural design conditions.

2. Elevations and sounding depths are referenced to international great lines chart datum 1.00 ft. Low water datum is 87.5 ft above mean water level at point Brandon (Great Lakes) water level readings are from an estimated stage located 1/4 mile upstream Brandon.

3. The information reflected on this map represents the results of soundings made on April 7, 2014. Data can only be considered as indicating the general conditions present at the time.

4. Horizontal positioning is determined using the differential global positioning system (DGPS). The differential corrections are provided by a two-way DGPS receiver operating on frequency 2.4 GHz, with a temperature corrected VLF model receiver working in a differential mode.

5. Grid coordinates are based on the Indiana State Plane Coordinate System, Transverse Mercator projection, Indiana West zone (NPS). All coordinates shown are in U.S. Survey feet.

6. Unless otherwise noted project depth is 30.0 feet below low water datum.