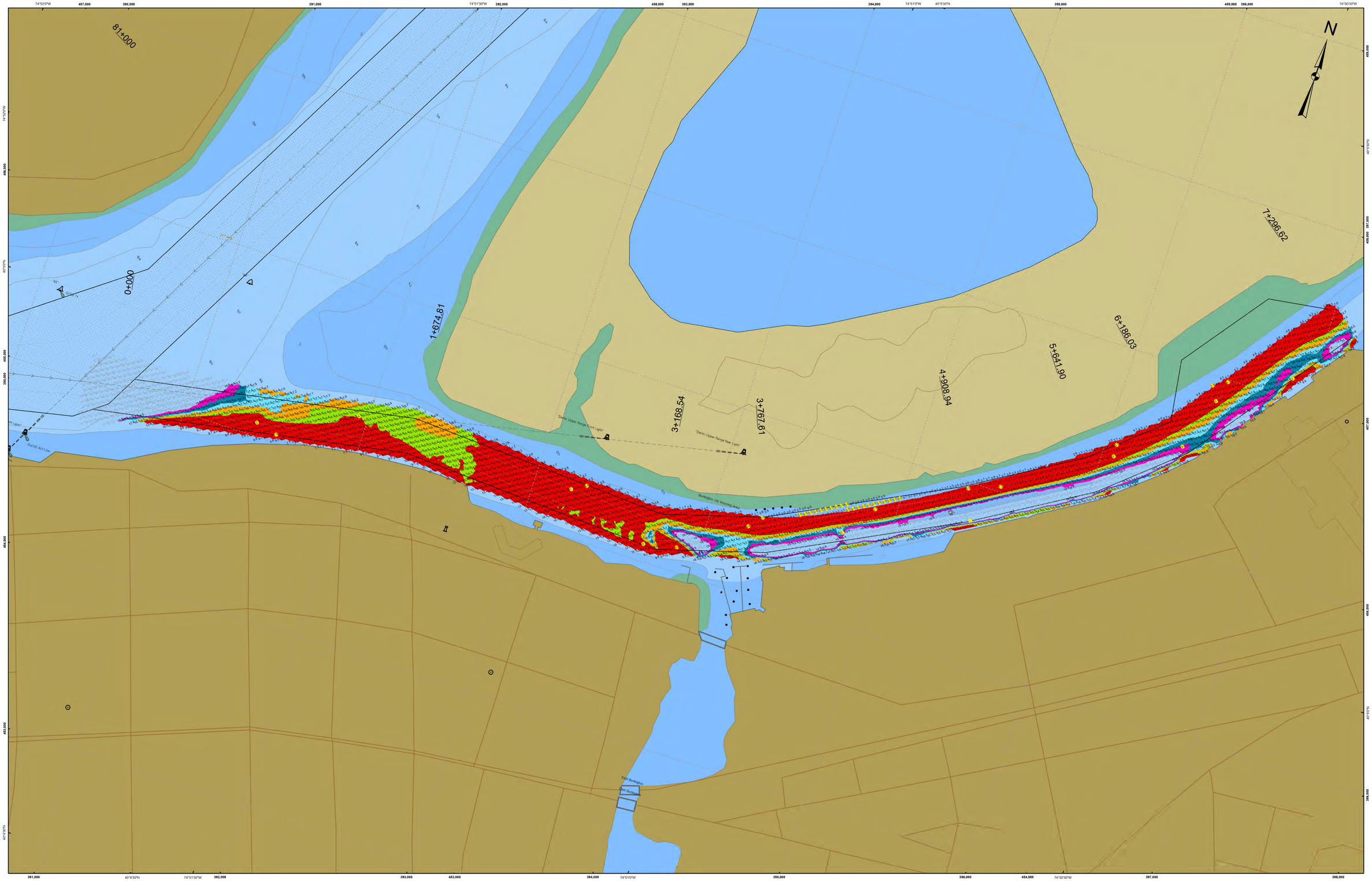

1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 3.21' BELOW N.A.V.D. 88.

4. GEOID 09 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

5. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15' X 15' CELL.

6. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

7. THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

8. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

9. THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

http://navigation.usace.army.mil/Survey/Framework

10. BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet

200 0 200 400 600

- Shoalest Sounding per Quarter
- CenterLine
- ToeLine
- Quarter Lines
- Station Lines
- 20 - 49.135
- 19 - 20
- 18 - 19
- 17 - 18
- 16 - 17
- 15 - 16
- 1.35 - 15

US Army Corps of Engineers
Philadelphia District

DISCLAIMER
This data is provided for general information only. It was compiled from the best information available to the Corps of Engineers at the time and is subject to change without notice. Care should be taken when using this data by others than the Corps of Engineers constituting an official navigation product to assure that it is current and accurate only at the time they are measured and only in those areas where recent soundings have been obtained. Buoys, pipelines, and other locks and equipment used to produce navigation charts are placed by various agencies and private companies and are not under the control of the Corps of Engineers. Their locations are constantly changing, the topography of the shoreline changes with storms and other natural events, and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualitiy/ suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guarantees or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others. The government is not liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Drawing No.
Plot Scale
Approved: Chief, Survey Section

DELAWARE RIVER, PHILADELPHIA TO TRENTON
BURLINGTON ISLAND BACK CHANNEL
EXAMINATION
STA. 0+000 to STA. 17+297 -- 04 JUN 25

E-PT-96