



Legend

- Benchmark
- Shoalest Sounding in Quarter/Parameter of each Reach
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Bathymetry

- 0' - 1.9'
- 2' - 4.9'
- 5' - 5.9'
- 6' - 6.9'
- 7' - 7.9'
- 8' - 8.9'
- 9' - 9.9'
- 10' - 10.9'
- 11' and Deeper

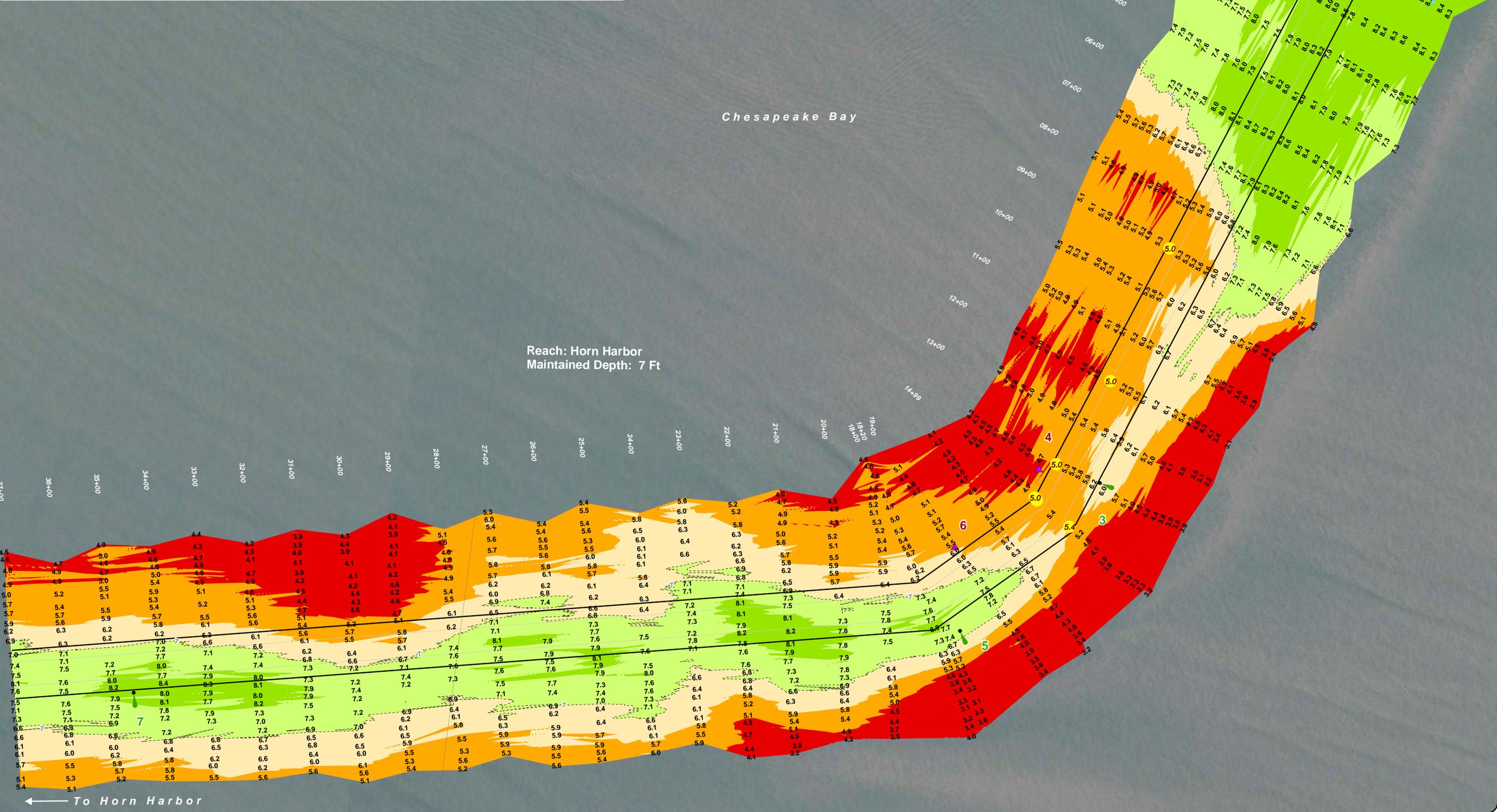
Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger

Scale
0 25 50 100 Feet
1 inch = 100 feet

To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510					
RIVER/HARBOR NAME AND STATE HORN HARBOR VIRGINIA			MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)			
Horn Harbor	08-30-2016	100	0.70	7	5.4	5.0	5.0

Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch



NOTES:

1. PROJECT CHANNEL 7 FEET DEEP, 100 FEET WIDE ACROSS ENTRANCE BAR.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 15 FT RADIUS GENERATED FROM HYDRO SURVEY DATA.
4. BACKGROUND: VIRGINIA BASE MAPPING PROGRAM 2013 IMAGERY.
5. ABS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET.
6. SURVEY XYZ (.XYZ) AND METADATA (.NET) FILE NAME REFERENCED BY #HYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: NAD 83 STATE PLANE MIDDLE ATLANTIC ZONE US SURVEY FEET IMPLIED HORIZONTAL ACCURACY: +/- 10 FEET HORIZONTAL CONTROL MONUMENTS: USCG DGPS	VERTICAL REFERENCE DATUM: MLLW TIDAL EPOCH: 1983-2001 TIDAL RANGE: SOUTH ZONE SYSTEM METHOD: SINGLE BEAM BIN SIZE: 10 FEET BIN SELECTION METHOD: N/A	GAUGE INFORMATION - VERTICAL CONTROL MONUMENTS NOS MLLW IN TIDE TIDAL EPOCH: 1983-2001 MONUMENT: CE 'HOKIE, 2008' MLLW: 3.82 MEAN RANGE OF TIDE: 1.69 TIDE APPLICATION: Direct AREA: 00+00 to 37+00
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HORN HARBOR
PROJECT CONDITION SURVEY

SURVEY DATES:
August 30, 2016

SURVEY BY: Geodynamics
MAP NO.: HNH-2016-06-30-CS
HYDRO FILE: HNH_01_ANH_20160830_CS

SHEET 1 of 1
Map Produced: 10/3/2016

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Navigation Support and Survey Section