



SURVEYED BY: LMT, SRV
MAPPED: K7DPDPSGD
MAP FILE NAME: SH_19_CBH_20160405.MXD

SURVEY DATE: 05 APRIL 2016
MAP DATE: 07 APRIL 2016
MAP SCALE: 1:3,000
IMAGERY DATE: 29 JANUARY 2016
© 2016 DIGITALGLOBE NEXTVIEW LICENSE

**HYDROGRAPHIC SURVEY**  
 U.S. ARMY ENGINEER DISTRICT  
 CORPS OF ENGINEERS  
 WILMINGTON, NORTH CAROLINA

**Carolina Beach Harbor**

CAROLINA BEACH, NORTH CAROLINA

**NOTES:**

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (M.L.L.W.) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "WALT", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
- HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W.
- TIDE GAGE LOCATED AT INLET WATCH MARINA. USE OF TIDE VALUES FOR THIS GAGE ARE RESTRICTED TO QUALITY ASSURANCE PURPOSES FOR VERIFICATION OF RTK TIDES. THE WILMINGTON DISTRICT WILL ONLY USE STAFF GAGE TIDE VALUES FOR FINAL MAPPING AND QUANTITY CALCULATIONS IF RTK GPS IS UNAVAILABLE AT THE TIME OF SURVEY.
- THIS PROJECT WAS DESIGNED BY THE WILMINGTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
- NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAWUSACE.ARMY.MIL

**LEGEND**

Can	Green Light	Red Light	Green Daybeacon	Red Daybeacon	Green Lighted Buoy	Red Lighted Buoy	Junction Marker	Waypoints	Waypoint Lines	Navigation Channel
	Danger Sign	Mileboard	Tide Gage							

**Depth In Feet**

4 and Shallower
6 - 4
7 - 6
8 - 7
10 - 8
12 - 10
14 - 12
15 - 14
15 and Deeper

**WAYPOINTS**

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Carolina Beach Harbor Waypoint 01	2016-04-05	2336136	114208	77° 53' 25.134" W	34° 3' 31.052" N
Carolina Beach Harbor Waypoint 02	2016-04-05	2336573	112650	77° 53' 20.138" W	34° 3' 15.596" N
Carolina Beach Harbor Waypoint 03	2016-04-05	2336232	111402	77° 53' 24.357" W	34° 3' 3.292" N
Carolina Beach Harbor Waypoint 04	2016-04-05	2336191	108913	77° 53' 25.177" W	34° 2' 38.677" N
Carolina Beach Harbor Waypoint 05	2016-04-05	2335803	107422	77° 53' 29.991" W	34° 2' 23.973" N
Carolina Beach Harbor Waypoint 06	2016-04-05	2335578	106288	77° 53' 32.806" W	34° 2' 12.782" N

