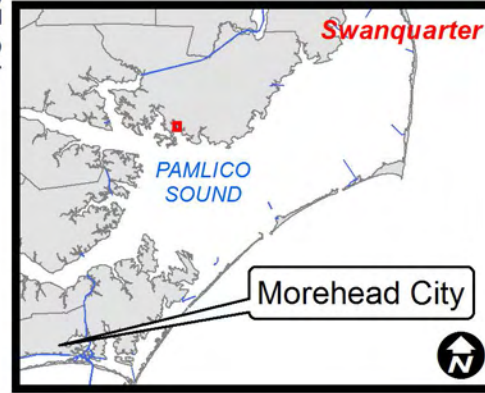
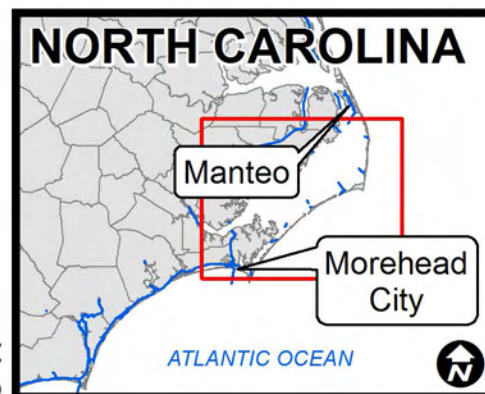


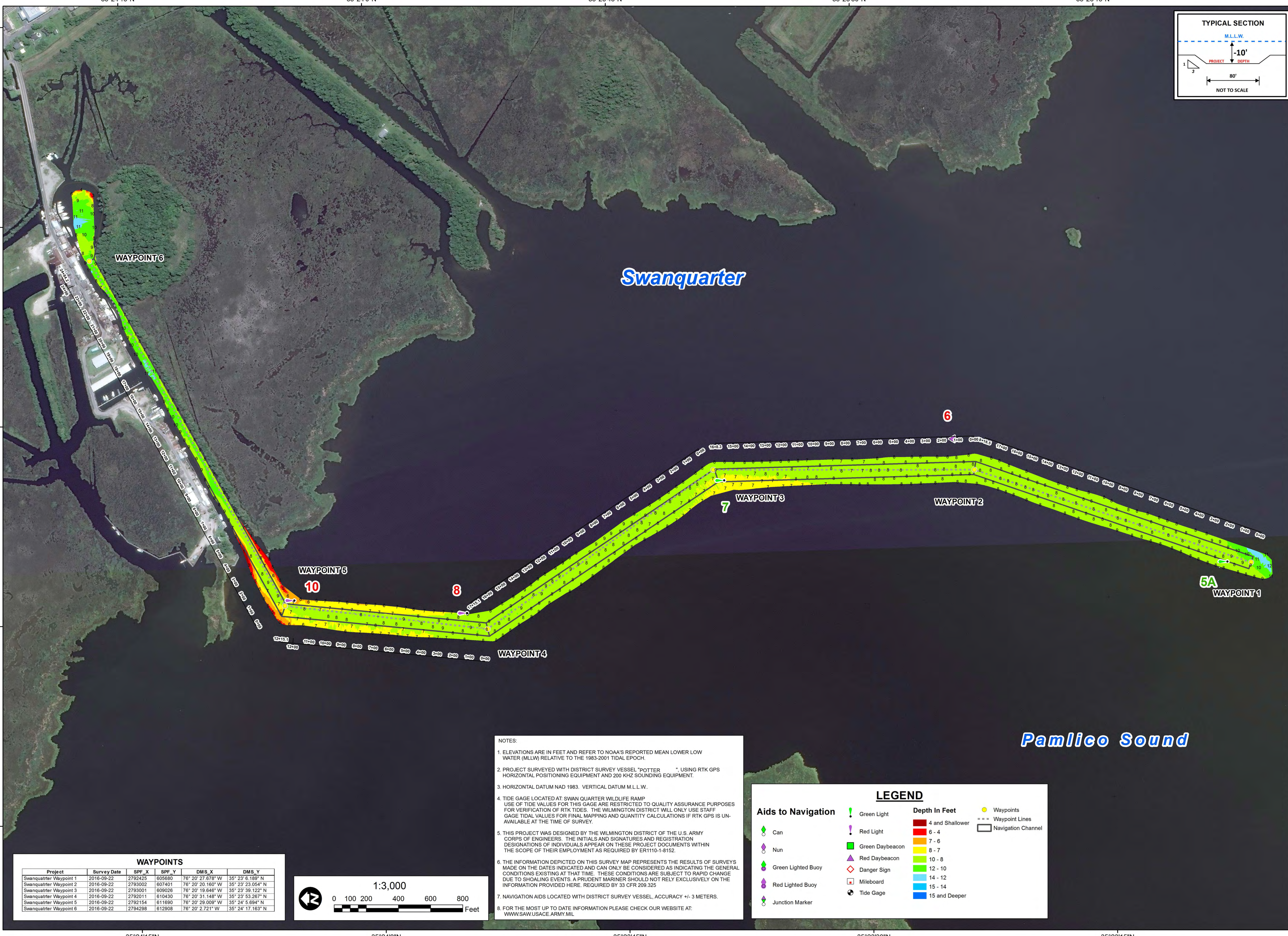
US Army Corps of Engineers
Wilmington District



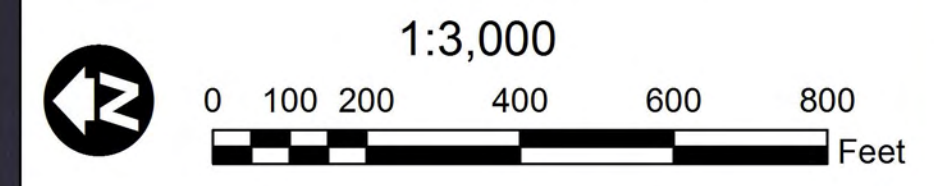
SURVEY DATE: 22 SEPTEMBER 2016	SURVEYED BY: BRJ, DCH
MAP DATE: 23 SEPTEMBER 2016	MAPPED: K70FNDJIM
MAP SCALE: 1:3,000	
IMAGERY DATE: 14 SEPTEMBER 2016	
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HYDROGRAPHIC SURVEY
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Swanquarter
Ranges 1 - 2c
SWANQUARTER, NORTH CAROLINA



WAYPOINTS					
Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
Swanquarter Waypoint 1	2016-09-22	2792425	605680	76° 20' 27.678" W	35° 23' 6.189" N
Swanquarter Waypoint 2	2016-09-22	2793002	607401	76° 20' 20.160" W	35° 23' 23.054" N
Swanquarter Waypoint 3	2016-09-22	2793001	609026	76° 20' 19.846" W	35° 23' 39.122" N
Swanquarter Waypoint 4	2016-09-22	2792011	610430	76° 20' 31.148" W	35° 23' 53.267" N
Swanquarter Waypoint 5	2016-09-22	2792154	611690	76° 20' 29.009" W	35° 24' 5.694" N
Swanquarter Waypoint 6	2016-09-22	2794298	612908	76° 20' 2.721" W	35° 24' 17.163" N



NOTES:

- ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
- PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "POTTER" 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 SWAN QUARTER WILDLIFE RAMP. 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 TIDAL 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 ERT110-1-8152.
- 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.SAW.USACE.ARMY.MIL

Aids to Navigation			Depth In Feet		Waypoints	
Green Light	Green Lighted Buoy	Red Lighted Buoy	4 and Shallower	6 - 4	7 - 6	8 - 7
Red Light	Green Daybeacon	Red Daybeacon	10 - 8	12 - 10	14 - 12	15 - 14
Can	Nun	Junction Marker	15 and Deeper	Waypoints	Waypoint Lines	Navigation Channel
Mileboard	Tide Gage					

76°19'45"W
76°20'00"W
76°20'15"W
76°20'30"W
76°20'45"W

35°24'15"N 35°24'0"N 35°23'45"N 35°23'30"N 35°23'15"N

76°20'15"W
76°20'30"W
76°20'45"W