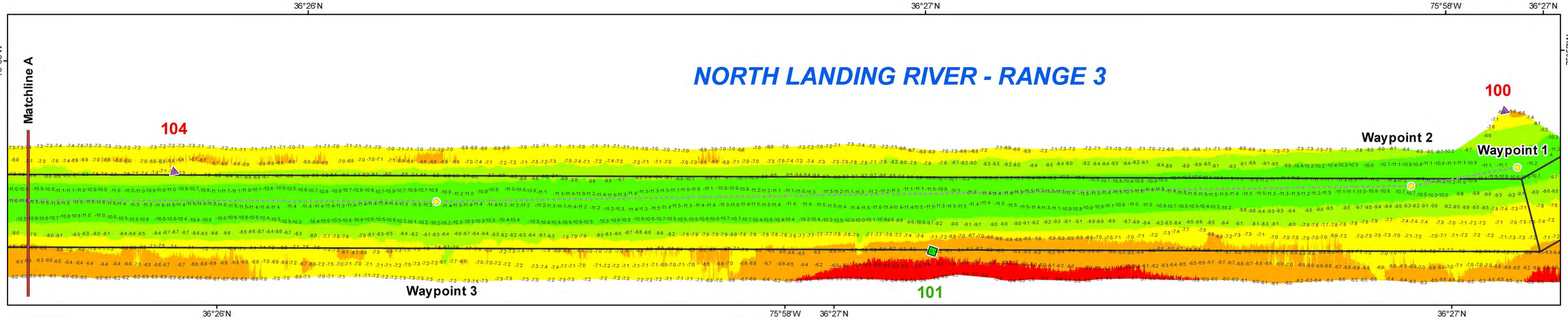
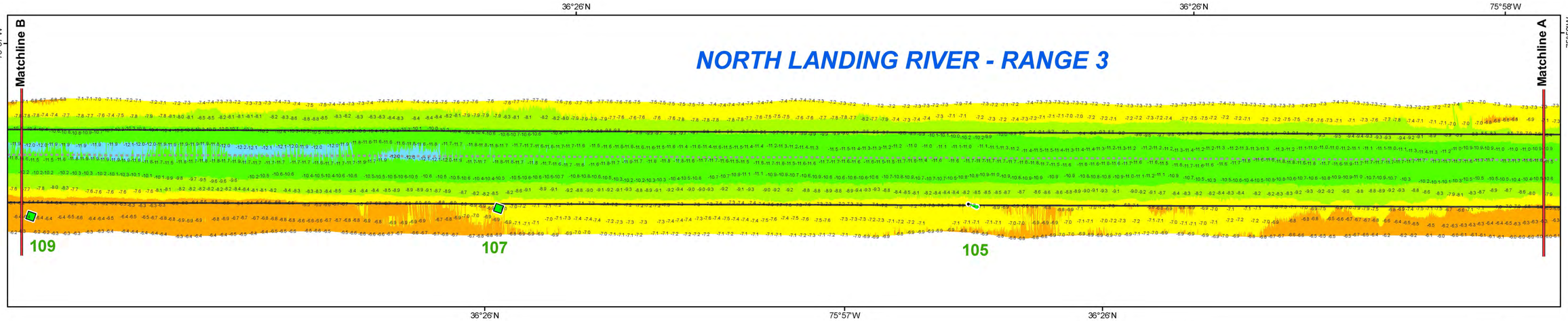
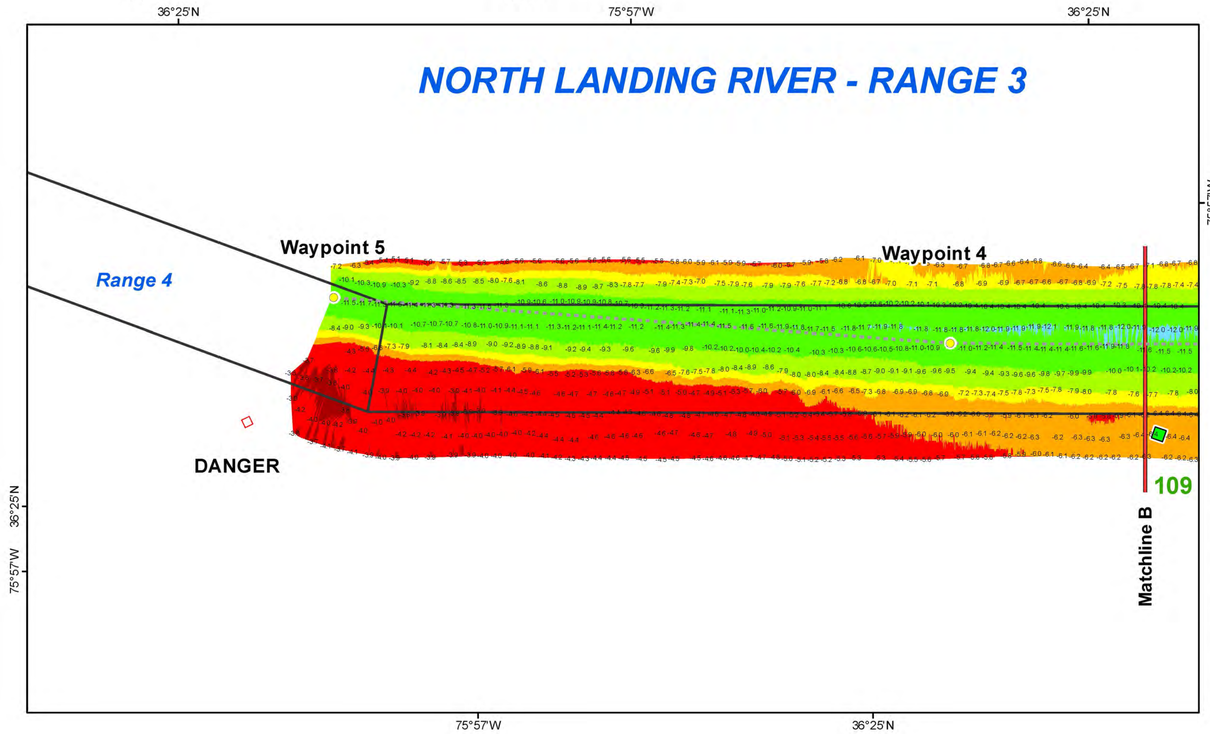
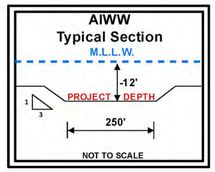








1:2,000

0 250 500 Feet

LEGEND

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

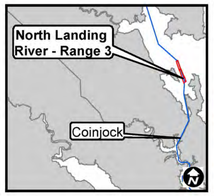
WAYPOINTS

Project	Survey Date	SPF_X	SPF_Y	DMS_X	DMS_Y
AMW - N. Landing River R-3 / Waypoint 1	2016-03-25	2892539	996442	75° 57' 54.771" W	36° 27' 0.728" N
AMW - N. Landing River R-3 / Waypoint 2	2016-03-25	2892719	996119	75° 57' 52.682" W	36° 26' 57.473" N
AMW - N. Landing River R-3 / Waypoint 3	2016-03-25	2893871	992975	75° 57' 39.775" W	36° 26' 26.060" N
AMW - N. Landing River R-3 / Waypoint 4	2016-03-25	2896178	986278	75° 57' 14.072" W	36° 25' 19.171" N
AMW - N. Landing River R-3 / Waypoint 5	2016-03-25	2896550	984887	75° 57' 10.040" W	36° 25' 5.311" N

NOTES:

1. ELEVATIONS ARE IN FEET AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) RELATIVE TO THE 1983-2001 TIDAL EPOCH.
2. PROJECT SURVEYED WITH DISTRICT SURVEY VESSEL "KNOWLTON", USING RTK GPS HORIZONTAL POSITIONING EQUIPMENT AND 200 KHZ SOUNDING EQUIPMENT.
3. HORIZONTAL DATUM NAD 1983. VERTICAL DATUM M.L.L.W..
4. TIDE GAGE LOCATED AT: 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 UN-AVAILABLE AT THE TIME OF SURVEY.
5. 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.
6. 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
7. NAVIGATION AIDS LOCATED WITH DISTRICT SURVEY VESSEL, ACCURACY +/- 3 METERS.
8. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: WWW.SAW.USACE.ARMY.MIL

US Army Corps of Engineers ®
Wilmington District



SURVEYED BY: DCH, BRJ
MAPPED BY: SMG
SURVEY DATE: 25 MARCH 2016
MAP DATE: 31 MARCH 2016
MAP SCALE: 1:2,000
MAP FILE NAME: NORTHLNDGRVR3_2016-03-25.MXD

HYDROGRAPHIC SURVEY

US ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

ATLANTIC INTERCOASTAL WATERWAY
NORFOLK TO BEAUFORT

NORTH LANDING RIVER
RANGE 3

COINJOCK, NORTH CAROLINA