

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community,

Map Date: 01/14/2020
Map Scale: N/A

Sloop Channel Dredging
North Carolina Department of Transportation
Ferry Division
Maintenance Permit 2020
Dare/Hyde County, North Carolina



Hatteras Ferry Basin: Location for Sidecast Dredge While Not Working in the Channel

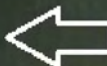
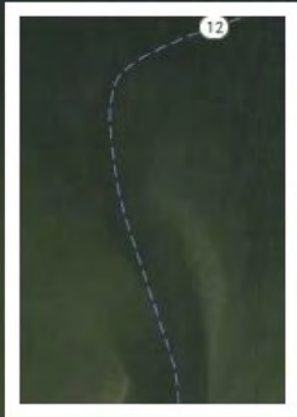
Southdock Spoil Site: Location for Pipeline Dredge Material



0 1,050 2,100 4,200 Feet

1 :2,083 feet

Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



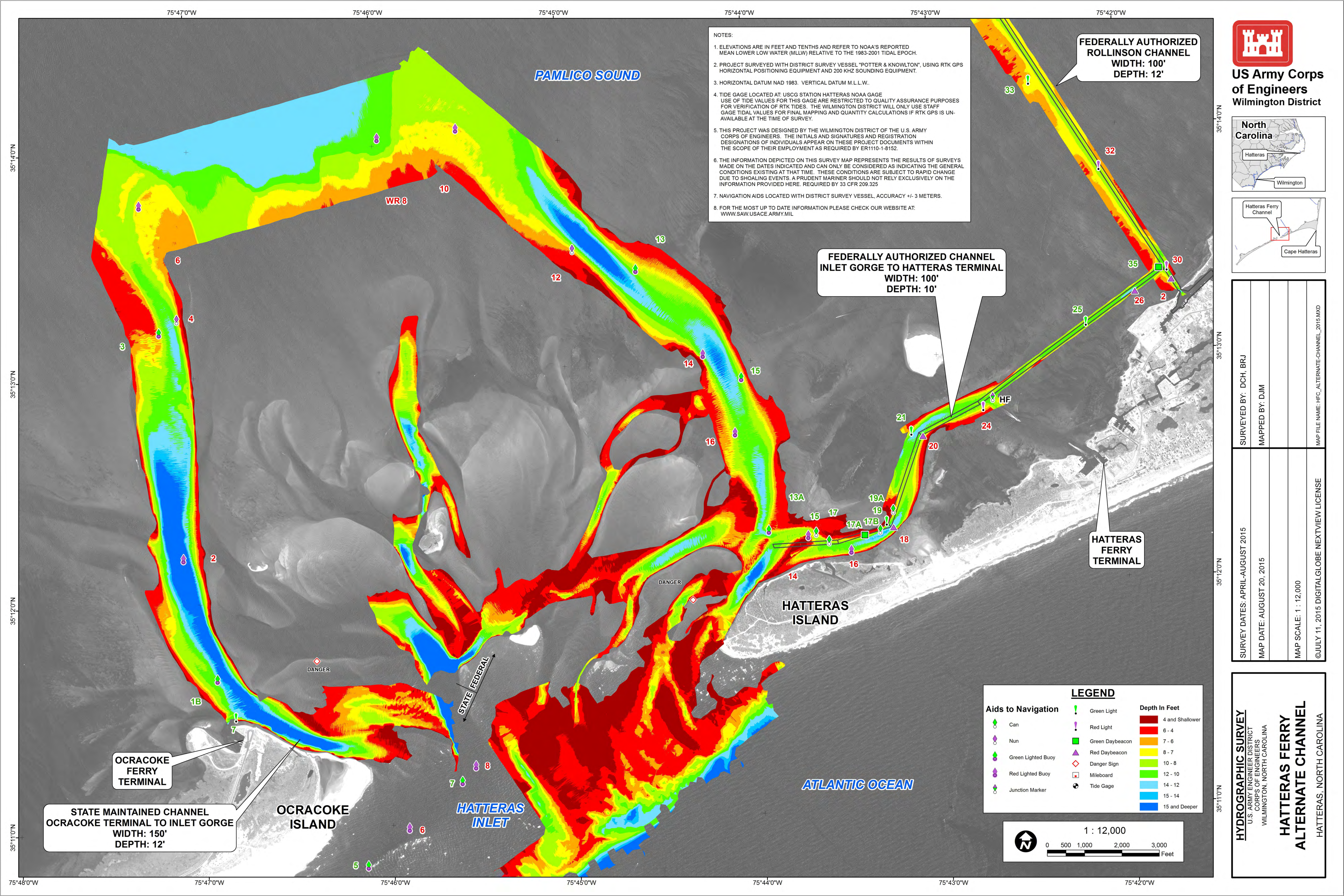
Area where dog leg section
of Sloop Channel exists

Hatteras
Inlet Crab
Spawning
Sanctuary

Hatteras Inlet

Graveyard of the
Atlantic Museum





NOTES:

- ELEVATIONS ARE IN FEET AND TENTHS 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 & KNOWLTON", 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: USCG STATION HATTERAS NOAA GAGE. 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 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.SAW.USACE.ARMY.MIL

FEDERALLY AUTHORIZED ROLLINSON CHANNEL
 WIDTH: 100'
 DEPTH: 12'

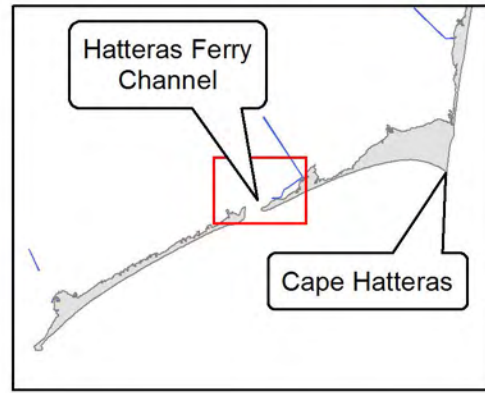
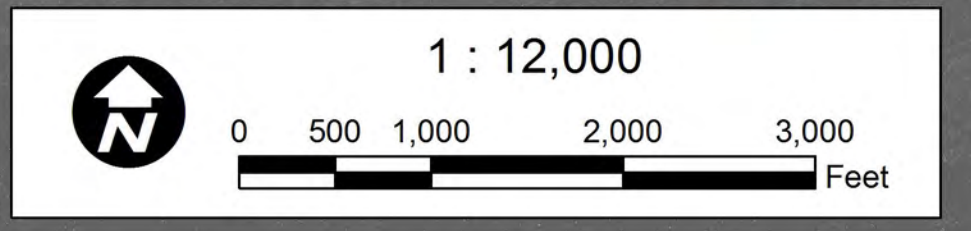
FEDERALLY AUTHORIZED CHANNEL INLET GORGE TO HATTERAS TERMINAL
 WIDTH: 100'
 DEPTH: 10'

HATTERAS FERRY TERMINAL

OCRACOKE FERRY TERMINAL

STATE MAINTAINED CHANNEL
 OCRACOKE TERMINAL TO INLET GORGE
 WIDTH: 150'
 DEPTH: 12'

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

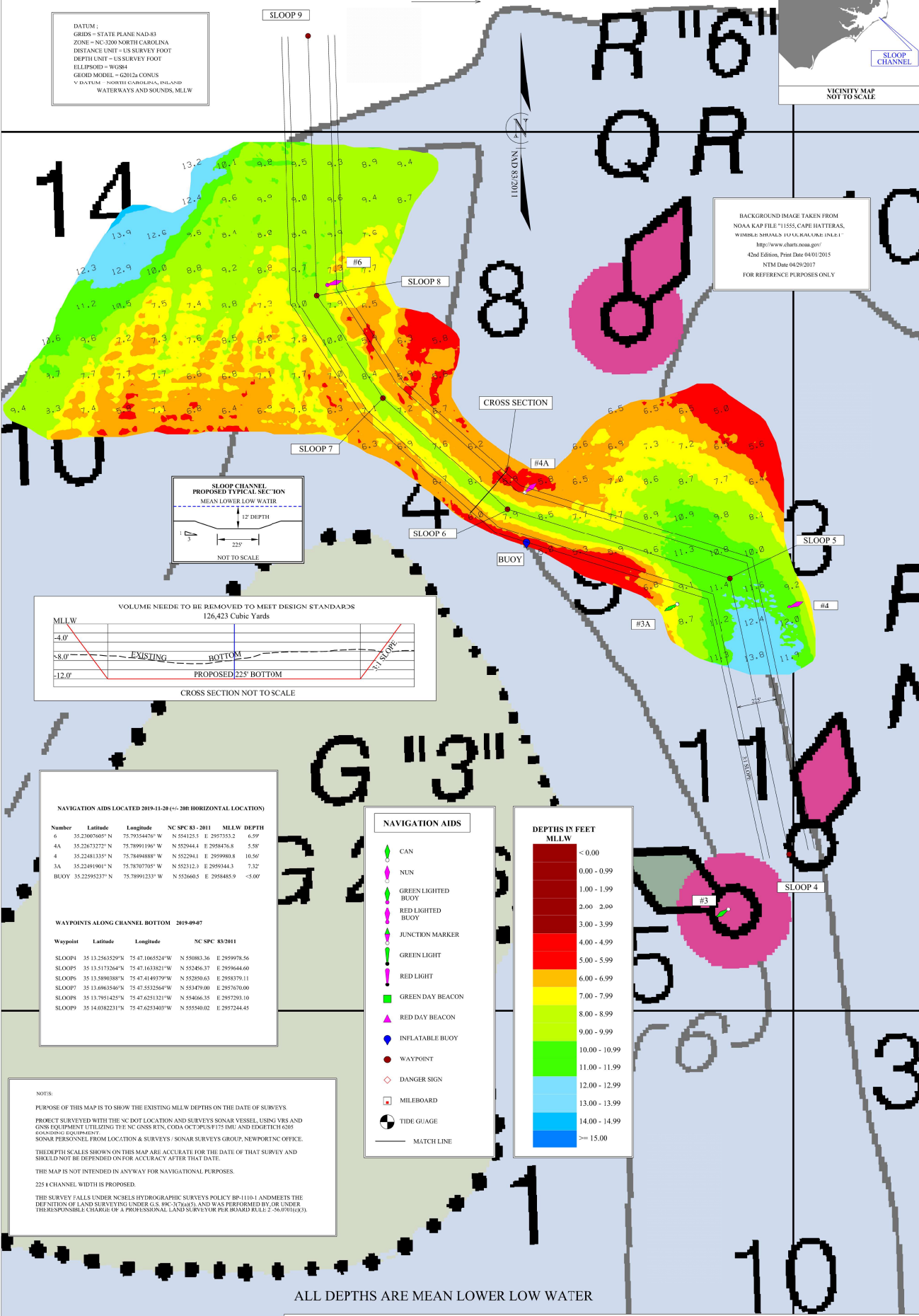
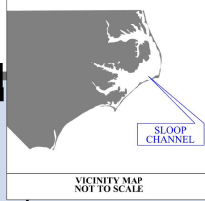


SURVEYED BY: DCH, BRJ	MAPPED BY: DJM
SURVEY DATES: APRIL-AUGUST 2015	MAP DATE: AUGUST 20, 2015
MAP SCALE: 1 : 12,000	MAP FILE NAME: HFC_ALTERNATE-CHANNEL_2015.MXD
© JULY 11, 2015 DIGITAL GLOBE NEXTVIEW LICENSE	

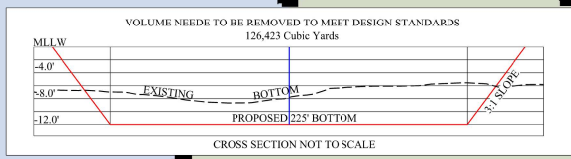
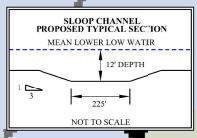
HYDROGRAPHIC SURVEY
 U.S. ARMY ENGINEER DISTRICT
 WILMINGTON, NORTH CAROLINA

HATTERAS FERRY ALTERNATE CHANNEL
 HATTERAS, NORTH CAROLINA

DATUM: STATE PLANE NAD83
 GRID: NC-3200 NORTH CAROLINA
 DISTANCE UNIT: US SURVEY FOOT
 DEPTH UNIT: US SURVEY FOOT
 ELLIPSOID: WGS84
 GEOID MODEL: G2012a CONUS
 DATUM: NORTH CAROLINA, INLAND
 WATERWAYS AND SOUNDS, MLLW



BACKGROUND IMAGE TAKEN FROM
 NOAA KAP FILE: '11555_CAPE_HATTERAS,
 WIMBLE SHOALS (U.S. RAUM O&E INLET)
 http://www.charts.noaa.gov/
 42nd Edition, Print Date 04/01/2015
 NTM Date 04/29/2017
 FOR REFERENCE PURPOSES ONLY



NAVIGATION AIDS LOCATED 2019-11-20 (+/- 200' HORIZONTAL LOCATION)

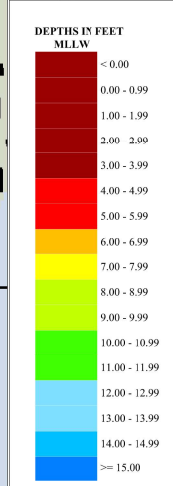
Number	Latitude	Longitude	NC SPC 83-2011	MLLW	DEPTH
6	35.23067605°N	75.79354476°W	N 554125.5 E 295753.2	6.59	
4A	35.22673272°N	75.78991196°W	N 552944.4 E 2958476.8	5.58	
4	35.22481335°N	75.78494888°W	N 552294.1 E 2959908.8	10.50	
3A	35.22491901°N	75.78707705°W	N 552312.3 E 2959344.3	7.32	
BUOY	35.22595237°N	75.78991233°W	N 552660.5 E 2958485.9	-5.00	

WAYPOINTS ALONG CHANNEL BOTTOM 2019-09-07

Waypoint	Latitude	Longitude	NC SPC 83/2011
SLOOP4	35.13256352°N	75.47106552°W	N 550883.36 E 2859978.56
SLOOPS	35.13517326°N	75.47163382°W	N 552456.37 E 2859644.60
SLOOP5	35.13589038°N	75.47414937°W	N 552856.63 E 2958379.11
SLOOP7	35.13496346°N	75.47532264°W	N 551479.00 E 2857670.00
SLOOP8	35.13396123°N	75.47625172°W	N 554666.35 E 2857293.10
SLOOP9	35.14038221°N	75.47625340°W	N 555540.02 E 2857244.43

NAVIGATION AIDS

- CAN
- NUN
- GREEN LIGHTED BUOY
- RED LIGHTED BUOY
- JUNCTION MARKER
- GREEN LIGHT
- RED LIGHT
- GREEN DAY BEACON
- RED DAY BEACON
- INFLATABLE BUOY
- WAYPOINT
- DANGER SIGN
- MILEBOARD
- TIDE GAUGE
- MATCH LINE



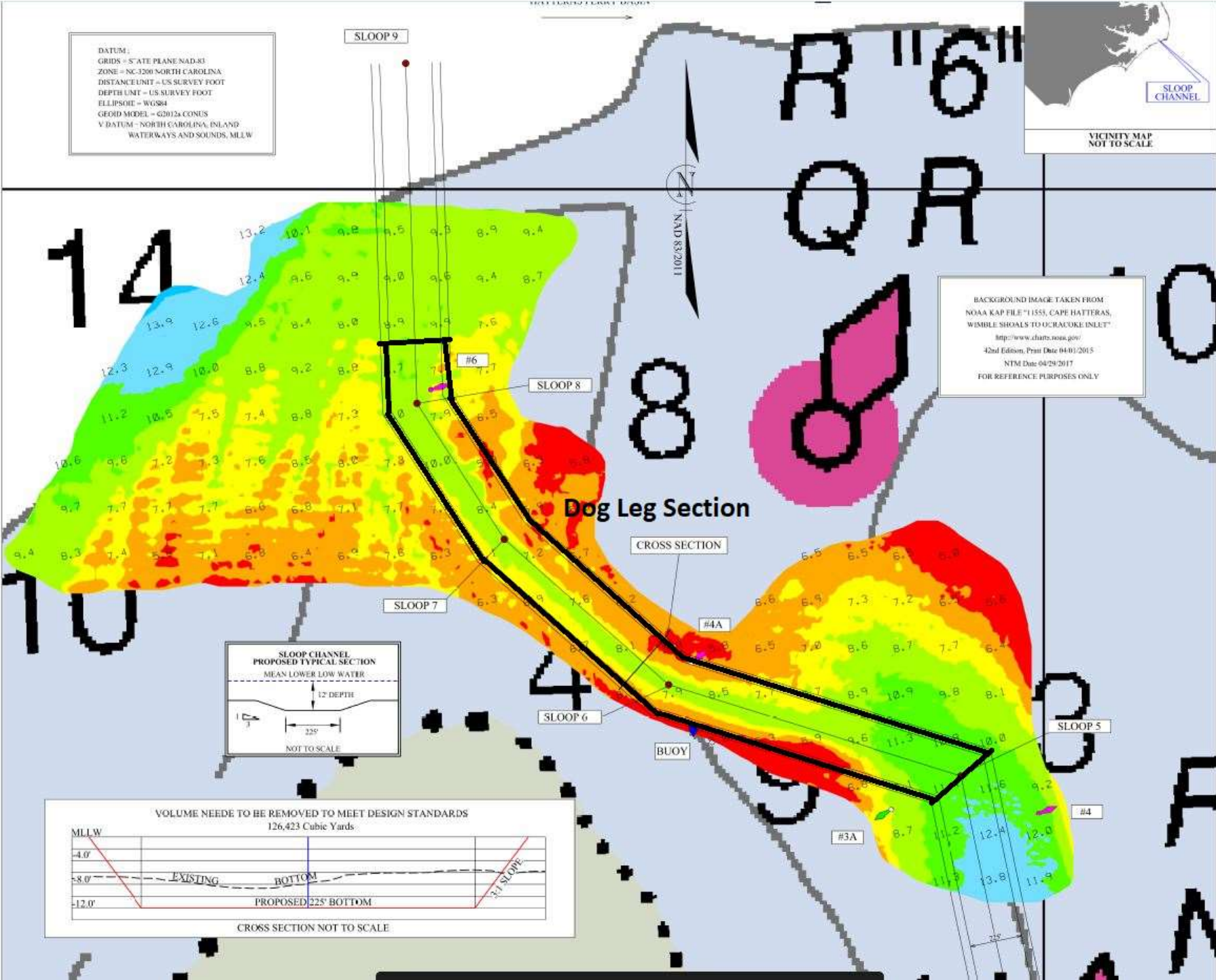
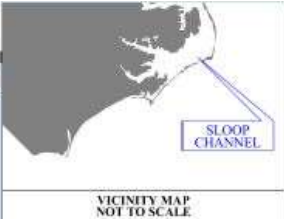
NOTES:
 PURPOSE OF THIS MAP IS TO SHOW THE EXISTING MLLW DEPTHS ON THE DATE OF SURVEYS.
 PROJECT SURVEYED WITH THE NC DOT LOCATION AND SURVEYS SONAR VESSEL, USING VRS AND GNSS EQUIPMENT UTILIZING THE NC GNSS RTN, CODA OCTOPUS F175 IMU AND EDGETECH 6205 SOUNDING EQUIPMENT.
 SONAR PERSONNEL FROM LOCATION & SURVEYS / SONAR SURVEYS GROUP, NEWPORT OFFICE.
 THE DEPTH SCALES SHOWN ON THIS MAP ARE ACCURATE FOR THE DATE OF THAT SURVEY AND SHOULD NOT BE DEPENDED ON FOR ACCURACY AFTER THAT DATE.
 THE MAP IS NOT INTENDED IN ANYWAY FOR NAVIGATIONAL PURPOSES.
 225 ± CHANNEL WIDTH IS PROPOSED.
 THE SURVEY FALLS UNDER NCELS HYDROGRAPHIC SURVEYS POLICY BP-1110-1 AND MEETS THE DEFINITION OF LAND SURVEYING UNDER G.S. 89C-37(b)(6), AND WAS PERFORMED BY OR UNDER THE SUPERVISION AND CONTROL OF A PROFESSIONAL LAND SURVEYOR PER BOARD RULE 2-56.07010(c).

ALL DEPTHS ARE MEAN LOWER LOW WATER



<p>SLOOP CHANNEL PROPOSED PERMITTING CONDITIONS</p> <p>SURVEY DATE: NOVEMBER 20, 2019 MAP DATE: DECEMBER 4, 2019</p> <p>Map Produced by NCDOT, Location & Surveys</p>	<p>North Carolina Dept of Transportation Location & Survey Unit 1020 Birch Ridge Drive Raleigh, NC 27603 (919) 707-6800</p> <p>J. L. HARRISON, P.E., PLS REGIONAL LOCATION & SURVEY ENGINEER</p> <p>MARK G. WARD, PLS SONAR OPERATIONS ENGINEER</p>	<p>DATES OF SURVEYS: NOVEMBER 19, 2019</p> <p>SURVEYED BY: KEVIN MOHR, MOH</p> <p>MAPPED BY: KMO</p> <p>FILE NAME: SLOOP PERMITTING_LS_SSG_191119.PDF</p>	<p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION</p>	<p>KEVIN R. SPREFFORD, P.E. LICENSE NO. L-4236</p>
--	---	---	--	---

DATUM:
 GRIDS = STATE PLANE NAD83
 ZONE = NC-3200 NORTH CAROLINA
 DISTANCE UNIT = US SURVEY FOOT
 DEPTH UNIT = US SURVEY FOOT
 ELLIPSOID = WGS84
 GEOID MODEL = G2012a CONUS
 V DATUM = NORTH CAROLINA, INLAND
 WATERWAYS AND SOUNDS, MLLW



BACKGROUND IMAGE TAKEN FROM
 NOAA KAP FILE "11553, CAPE HATTERAS,
 WIMBLE SHOALS TO OCRACUKE INLET"
<http://www.charts.noaa.gov/>
 42nd Edition, Print Date 04/01/2015
 NTM Date 04/29/2017
 FOR REFERENCE PURPOSES ONLY

