Horizontal and Vertical Control Report

Project Metadata

Project Name:	Beaufort, NC	
Project Number:	S-F933NR T2-18	
General Locality:	Beaufort, NC	
State or Territory:	North Carolina	
Field Unit:	Navigation Response Team 2	
Chief of Party:	James Kirkpatrick	
Project Start Date:	2018-07-10	
Project End Date:	2018-07-11	
Field Year:	2018	
DAPR Version:	1	

Positional and Height Information Utilized for this Project

Horizontal Datum:	North American Datum 1983
Realization:	CORS96
Ellipsoid:	GRS 80

Image of all Site Locations pertaining to the HVCR

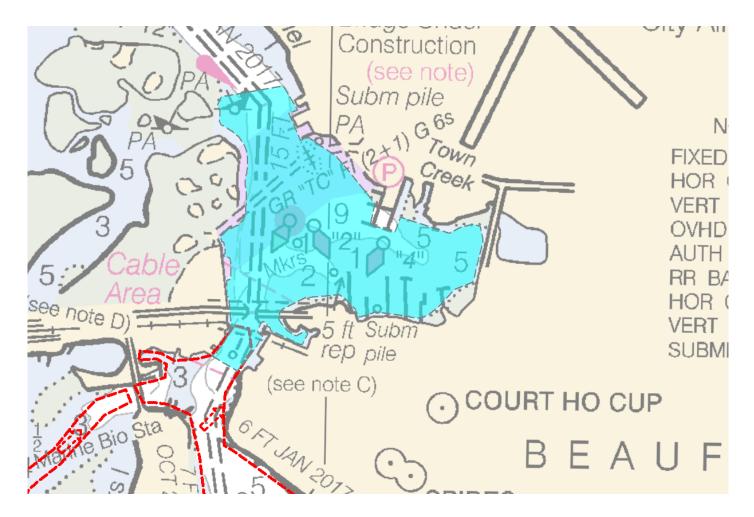


Figure: - Survey Area

Non- User Installed Gauges and Stations

There were no NWLON stations utilized for this project.

CORS Stations			
Station ID	Position	Ellipsoid Height	
NCBE	Latitude:34.7190302778 Longitude: 76.6719420556	-27.858 meters	

User Installed Stations

Site Information		
Site ID	Site Name	
9999	NA	

Vertical Control was not established at this site.

Horizontal Control was not established at this site.

Vertical Techniques

Overview: Soundings were collected as ellipsoidal heights using POS/MV positioning system. Ellipsoid referenced depths were post-processed using POSPAC MMS 8.3.1. Soundings were transformed to MLLW using Caris 10.4.

VDATUM

Software Version	Geoid	Regiona IArea	Regional Area Version
3.6.1	2012		NCinner11_8301

Discussion: The field unit used the separation model supplied with the project instructions to transform ellipsoid heights to MLLW.

Horizontal Techniques

Overview: Horizontal control was established using a PPK solution.

Post-Processing Kinematic (PPK)

Single Base

Non-User Installed Sites

User Installed Sites

Discussion: Horizontal positions were collected using POS/MV GNSS positioning system. Raw position data was used to create an SBET in POSPAC MMS 8.3.1. SBET's were applied to data in Caris 10.4.

Approval Sheet

Supervision Statement: As Chief of Party, field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports.

Approval Statement: All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

Adequacy Statement: The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys Specifications and Deliverables, Field Procedures Manual, Standing and Letter Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Descriptive Report.

Any Additonal Statements:

Signing Personnel				
Approver Name	Approver Title	Approval Date		