

C. Vertical and Horizontal Control

Additional information discussing the vertical or horizontal control for this survey can be found in the accompanying HVCR.

C.1 Vertical Control

The vertical datum for this project is Mean lower low water.

Non-Standard Vertical Control Methods Used:

VDatum

Ellipsoid to Chart Datum Separation File:

2001_N395_VDatum_Ellip-MLLW_SEP.xyz

VDatum was the vertical transformation tool used for data referenced to the ellipsoid being brought back to MLLW. All soundings were merged in CARIS HIPS and SIPS using the apply GPS tide button and Compute TPU was performed to account for the new VDatum uncertainty value. See correspondence in Appendix V for Vdatum use approval. **See attachment for Vdatum approval memo.**

Three lines could not be brought to the ellipsoid so therefore were not reduced to MLLW through VDatum. These lines were: 2011M_031825A, 2011M_0901648A, and 2011M_0901756A. These lines were reduced to MLLW through preliminary zoning and final tides as indicated in the tide note provided by CO-OPS.