

G. Vertical and Horizontal Control

The vertical datum for this project is Mean Lower Low Water. The vertical control method used was VDatum.

ERS via VDATUM was used to transform soundings measured at the ellipse to MLLW using spearation file OPR-D304-TJ-22_NAD83_VDatum_MLLW_PollockRip.

The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 19.

The following PPK methods were used for horizontal control:

- RTX: Trimble-RTX service was used with an Applanix POS MVv5 GNSS_INS system to obtain highly accurate ellipsoidally referenced position data to meet ERS specifications.
- WAAS: The Wide Area Augmentation System (WAAS) was used for real-time horizontal control during data acquisition.