

G. Vertical and Horizontal Control

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

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The following ellipsoid-to-chart vertical datum transformation was used:

ERS via VDATUM

Mcbride2_VDatum_NAD83-MLLW.csar

An ERS file specific to McBride Inlet was requested due to the survey operations exceeding the limit of the ERS file provided for OPR-O351-RA-21.

Ellipsoidally referenced GNSS derived heights and applied a separation model to reduce soundings to chart datum. Documentation with Hydrographic Surveys Division (HSD) accompanies the DR summary.

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 8.

Post Processed-Real Time Extended (PP-RTX) processing methods were used in Applanix POSPac MMS 8.5 SP2 software to produce SBETs for post-processing horizontal correction.