

## C. Vertical and Horizontal Control

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

### C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

#### ERS Datum Transformation

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

| Method        | Ellipsoid to Chart Datum Separation File                            |
|---------------|---|
| ERS via ERTDM | P136RA2019_ERTDM_NAD83-MLLW.csar<br>P136RA2019_ERTDM_NAD83-MHW.csar |

*Table 13: ERS method and SEP file*

### C.2 Horizontal Control

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 5.

The following PPK methods were used for horizontal control:

- RTX

Post Processed-Real-Time Extended (PP-RTX) processing methods were used in Applanix POSPac MMS 8.3 software to produce SBETs for post-processing horizontal correction.