

C. Vertical and Horizontal Control

Field installed tide of GPS stations were not utilized for this survey; there is no HVCR report included with submission of F00744.

C.1 Vertical Control

The vertical datum for this project is Columbia River Datum.

ERS Datum Transformation

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

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	NAD83-mlwCRD_Geoid09.csar

Table 11: ERS method and SEP file

Sounding elevations relative to the ellipsoid were collected through Ellipsoidal Referenced Survey (ERS) with post-processing of the daily logged POSpac data to create a statistical best estimate of trajectory (SBET) file, as detailed in the DAPR, All of F00744 meets HSSD vertical accuracy requirements.

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 10.

RTK

Precise Positioning-Real Time Extended (PP-RTX) processing methods were used in Applanix POSpac MMS 8.3 software to produce SBETs for post-processing horizontal correction. All of F00744 meets HSSD horizontal accuracy requirements.