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 VDATUM	OPR-E349-TJ-21_NAD83_VDatum_MLLW_A

Table 10: ERS method and SEP file

All soundings submitted for H13507 are reduced to MLLW using VDatum techniques as outlined in the DAPR.

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 18.

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 for H13507 MBES data from vessels HSL 2903, HSL 2904, and S222.

WAAS

The Wide Area Augmentation System (WAAS) was used for real-time horizontal control during data acquisition on vessels HSL 2903, HSL 2904, and S222.

D. Results and Recommendations

D.1 Chart Comparison

A chart comparison was conducted between survey H13507 and Electronic Navigational Charts (ENC) US5MD13M and US5MD16M in accordance with methods outlined in the DAPR. With the exception