

C. Vertical and Horizontal Control

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

C.1 Vertical Control

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

Standard Vertical Control Methods Used:

Discrete Zoning

The following National Water Level Observation Network (NWLON) stations served as datum control for this survey:

Station Name	Station ID
Unalaska	9462620
Port Moller	9463502
King Cove	9459881

Table 10: NWLON Tide Stations

The following subordinate water level stations were established for this survey:

Station Name	Station ID
Cape Chunak	9462941
Neumans Cove	9462948
False Pass	9462955
Isanotski Strait	9462961

Table 11: Subordinate Tide Stations

File Name	Status
9462620.tid	Final Approved
9462941.tid	Final Approved
9462948.tid	Final Approved
9462955.tid	Final Approved
9462961.tid	Final Approved

Table 12: Water Level Files (.tid)

File Name	Status
OPR-R315-KR-14_20141121.zdf	Final

Table 13: Tide Correctors (.zdf or .tc)

In addition to four subordinate tide stations installed to support the project, submerged BMPG (bottom mounted pressure gauges) were also deployed throughout the survey area to capture zoning characteristics. Data from all stations were used to derive the tide zones. Preliminary tide zones were not provided for this project.

C.2 Horizontal Control

The horizontal datum for this project is NAD83.

The projection used for this project is UTM Zone 3N.

The following PPK methods were used for horizontal control:

Single Base

Base stations at False Pass (FALS) and Cape Chunak (OUTE) also broadcast RTK corrections for real-time and preliminary positioning. Project base stations continuously logged data at 1 Hz, enabling PPK processing. All real-time positions were replaced in processing with PPK positions.

The following user installed stations were used for horizontal control:

HVCR Site ID	Base Station ID
FALS	False Pass
OUTE	Cape Chunak NETRS
5240	Cape Chunak T5700

Table 14: User Installed Base Stations