

## C. VERTICAL AND HORIZONTAL CONTROL

Project OPR-O112-RA-06 did not require static GPS observations or horizontal control work. All tide corrections were generated from CO-OPS maintained tide stations. No Horizontal and Vertical Control Report will be submitted.

### Horizontal Control

The horizontal datum for this project is the North American Datum of 1983 (NAD83). Differential GPS (DGPS) was the sole method of positioning. The differential corrector beacon utilized for this survey is given in Table 2.

<b>Location</b>	<b>Frequency</b>	<b>Custodian</b>	<b>Range</b>	<b>Priority</b>
Biorka Island	305 kHz	USCG	1.5nm	Primary

*Table 2: Differential Corrector Source for H11126.*

## Vertical Control

The vertical datum for this project is Mean Lower-Low Water (MLLW). The operating National Water Level Observation Network (NWLON) primary tide station at Sitka, AK (945-1600) served as control for datum determination and as the primary source for water level reducers for survey H11126.

No tertiary gauges were required.

All data were reduced to MLLW using **Final Approved Water Levels** from station Sitka, AK (945-1600) using the tide file 9451600.tid and final, time and height correctors using the zone corrector file O112RA2006CORP.zdf.

The request for Final Approved Water Levels for H11128 was submitted to CO-OPS on 09 July 2006 and the Final Tide Note was received on 23 Aug 2006. This documentation is included in Appendix IV.<sup>12</sup>