

Location	Frequency	Custodian	Distance	Priority
Cold Bay	289 kHz	USCG	135nm	Primary
Kodiak 313	kHz	USCG	245nm	Secondary
Mitrofanía Island	NOAA F4	NOAA (“flyaway”)	0nm	Backup

Table 2: Differential Corrector Sources for H11478.

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 Sand Point, AK (945-9450) served as control for datum determination and as the primary source for water level reducers for survey H11478.

RAINIER personnel installed Sutron 8210 “bubbler” tide gauge at the following subordinate station in accordance with the Letter Instructions. This station is described in detail in the *OPR-P182-RA-05 Horizontal and Vertical Control Report*.

Station Name	Station Number	Type of Gauge	Date of Installation	Date of Removal
Mitrofanía Island	945-9016	30-day	7/19/2005	8/22/2005

Table 3: Tide Stations installed by RAINIER personnel for H11478

All data were reduced to MLLW using **Final Approved Water Levels** from station Mitrofanía Island, AK (945-9016) and station Sand Point, Popof Island, AK (945-9450) using the tide files 9459016.tid and 9469450.tid. The final time and height correctors were applied to the data using the zone corrector file H11478CORF.zdf.¹⁸

The request for Final Approved Water Levels for H11478 was submitted to CO-OPS on September 7, 2005 and the Final Tide Note was received on January 10, 2006. This documentation is included in Appendix III.¹⁹