

## Vertical Control

All sounding data were initially reduced to MLLW using predicted tidal data from Ft. Ross and Pt. Reyes. Predicted tides were used only for preliminary data cleaning.

On October 12, 2007, John Oswald and Associates (JOA) issued a final tidal zoning scheme covering the project area. Verified tidal data was downloaded from the NOAA COOPS website ([http://tidesandcurrents.noaa.gov/station\\_retrieve.shtml?type=Historic+Tide+Data](http://tidesandcurrents.noaa.gov/station_retrieve.shtml?type=Historic+Tide+Data)). The data was then smoothed using a 5<sup>th</sup> order polynomial curve, and applied to the CARIS data on November 7, 2007. Verified tidal data were used for all final base surfaces. Refer to the Horizontal and Vertical Control Report for additional tidal information and station descriptions.

**Table 2 - Tide Gauges**

<b>Gauge</b>	<b>Location</b>	<b>Latitude</b>	<b>Longitude</b>
9415020	Point Reyes, CA	37° 59.8' N	122° 58.5' W
9416841	Arena Cove, CA	38° 54.8' N	123° 42.5' W

**Table 3 - Final Tide Zones**

<b>Zone</b>	<b>Primary</b>			
	<b>Site</b>	<b>Number</b>	<b>Time Offset</b>	<b>Range Ratio</b>
BB01	Point Reyes, CA	9415020	0	1.00
BB02	Point Reyes, CA	9415020	+6	1.01
BB03	Arena Cove, CA	9416841	0	1.00