

3. HORIZONTAL & VERTICAL CONTROL

3.1. HORIZONTAL CONTROL

The horizontal control datum for this survey was the World Geodetic System of 1984 (WGS84). All positions were collected in WGS84.

Two MBX-3 differential receivers, that used U.S. Coast Guard (USCG) network of differential beacons, supplied RTCM corrections to the acquired GPS pseudorange measurements; which subsequently produced WGS84 DGPS positions.

3.2. VERTICAL CONTROL

All sounding data were reduced to MLLW using verified tidal data from one tide gauge located at Sitka, Alaska. The tide gauge at Sitka is operated and maintained by NOAA. The tidal data was downloaded at the Thales GeoSolutions (Pacific), Inc. office in San Diego and subsequently e-mailed to the R/V Davidson at the end of every Julian day.

Table 3-1 Vertical Control Station Specifications

NAME	SIN	LATITUDE	LONGITUDE	ESTABLISHED
Sitka, AK	9451600	57.051667 N	135.341667 W	19/05/38

LCMF Inc. was contracted to provide final tidal zoning for the Hazy Islands survey area. The verified tidal data were then used to correct acquired bathymetric data.