- 8.2.7 **Tide corrections.** (f), (g) Tide correction errors consist of the actual observation errors at the tide gauge and any errors resulting from a tidal zoning schema or cotidal analysis. Observation errors from the NOAA tide gauges are known to be very low. The estimated error for observed tides is 0.025 meters (1 SIGMA). A similarly small margin of error for co-tidal corrections (0.35 meters) was calculated from comparison of a gauge installed on the leeward sides of Oahu and Kauai and the zone corrected reference tide station data. The standard deviation between the observed tide at these locations and the tide derived from the zoning was 0.179 meters. A similarly small margin of error for co-tidal corrections is based on the range and extent of the survey area in relation to the reference tidal stations and minimal shallow water effects due to the deep surrounding ocean water.
- 8.2.7.1 Incidentally, the three-day period when there was 0.35 meter difference between the observed tide and the NOOA COOPs cotidal zoned tide on the west coast of Oahu, no data was being collected in the area at this time. This error was strictly an observation and part of the tidal zone validation.