

C. VERTICAL AND HORIZONTAL CONTROL

Refer to the *Horizontal and Vertical Control Report for a detailed description of the horizontal and vertical control used during this survey. A summary of horizontal and vertical control used for the survey follows.

C.1 VERTICAL CONTROL

The initial vertical control for this survey was based on the National Water Level Observation Network (NWLON) station at Virginia Key, FL (8723214). Preliminary tide zoning for the project was set out using time and range correctors relative to the continuously operating Virginia Key NWLON tide station. Preliminary tide corrections were used to reduce depth soundings during the data collection period, in order to assess the integrity of bathymetry and plan necessary reflies. *Concur.*

Final vertical control was based on tide stations established on Deerfield Pier, Anglin's Pier and Dania Pier by Baxley Ocean Visions (BOV). The three tide gauges were related to the initial survey datum (NAVD88) by CPE on July 12, 2008. Tide records were corrected to MLLW for the NOAA work using the values in the table below. Further details on the derivation of these corrections are provided in the *Horizontal and Vertical Control Report. The tide gauges operated continuously from July 12, 2008 through to August 24, 2008. *Concur. *Data included with survey deliverables.*

Station details are as follows:

Location	NAD83		NAVD88 – MLLW Correction (m)
	Latitude (N)	Longitude (W)	
Deerfield Pier	26° 19.0'	80° 08.3'	+ 0.660
Anglin's Pier	26° 11.4'	80° 08.4'	+ 0.702
Dania Pier	26° 03.3'	80° 10.8'	+ 0.623