C. VERTICAL AND HORIZONTAL CONTROL

VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating National Water Level Observation Network (NWLON) stations at Marcus Hook, PA (854-0433) and Philadelphia, PA (854-5240) served as datum control for the survey.

The preliminary zones and correctors used for this survey are as follows:

ZONE NAME	CORRECTOR (min)	RATIO	REFERENCE
DB43	18	1.00	8540433
DB44	30	1.02	8540433
DB45	48	1.03	8540433
DB46	-24	0.95	8545240
DB42	6	1.00	8540433

Table 1: Preliminary Tide Zones & Correctors

A Request for Approved Tides letter was sent to N/OPS1 on 11 January 2006 (Appendix IV). Verified water levels from the N/OPS1 CO-OPS website were downloaded on November 23, 2005, and applied to all sounding data. Refer to the September 2004-December 2005 DAPR for a summary of the methods used to determine, evaluate, and apply tide corrections to sounding data.

Year_DOY	Min Time	Max Time
2004_338	17:09:59	18:29:03
2004_339	13:15:00	21:30:13
2004_340	13:58:55	17:06:30
2004_341	13:44:21	19:19:36