

## Tide Correctors ✓

The operating tide station at Seldovia, Alaska (945-5500) served as the control station for datum determination at all subordinate stations.

Predicted tides for the project were provided on diskette for HDAPS by N/CG241 for the Nikiski, Alaska reference station (945-5760).

Tidal correctors that were applied to the predicted tides at Nikiski, as listed in the section, 5.9. Zoning, in the project instructions for this sheet are:

	<u>Time Correction</u>	<u>Range Ratio</u>	<u>Zone</u>
East of 151°27.0'W	0:00	x 1.00	IV
West of 151°27.0'W	0:00	x 0.98	III

Portions of this survey fall in the tide Zones III and IV. Due to the constraints of the plotter, sheet C was divided at longitude 151°26.0'W. Depths collected to the east of

\* Filed with the hydrographic data

longitude 151°26.0'W were reduced using the corrections for Zone IV and depths to the west of longitude 151°26.0'W were reduced using corrections for Zone III.

HDAPS listings of the data used in generating tide corrector tables are included in Appendix V of this report. \*

RAINIER personnel installed 8200 digital gages at Nikiski, Alaska (945-5760) on May 22, 1995 and Chinulna Point (945-5735) on May 27, 1995. The staff was connected to five benchmarks at both stations during opening and closing level runs. Opening levels completed May 22, 1995 at Nikiski and on May 28, 1995 at Chinulna Point. On June 17, 1995, the staff at Chinulna Point was found to be broken at the two meter mark, which was the portion above the top of the boulder and the staff stop was gone. It was determined that the staff was probably busted by the debris carried by the strong currents. Since the remainder of the staff was secured directly to the rock face and it was inevitable that the top of the staff would again be broken, the staff was not replaced and a new staff stop was installed at the 1.3m mark on June 18, 1995. The new staff stop was leveled to bench mark 5735A. Both tide gages ran without problems during data acquisition. Closing levels were conducted at Nikiski on July 20, 1995 and at Chinulna Point on July 21, 1995. Both stations were removed on July 21, 1995.

The station descriptions, field tide records, field tide notes and data (Appendix V) have been forwarded to N/OES212 in accordance with HSG 50 and FPM 4.3. A request for approved tides was forwarded to N/OES2 in accordance with FPM 4.2.3. Tide notes dated January 30, 1996 is attached.