

## 2004 FIELD and FINAL TIDE NOTE

### Hydrographic Sheet: H11248

#### Sheet A

#### Fire Island Shoal to North Point Shoal

#### Cook Inlet, Alaska

NOAA Project No:		OPR-P385-KR-04 Cook Inlet, Alaska			
NOAA Contract No:		DG133C04CQ0006			
The NOS Anchorage, AK tide station (945-5920) and Nikiski (956-5760) served as control for the subordinate stations on this project. Datum determinations were made for the tertiary subordinate stations: Fire Island (945-5912). The NTDE 1983-2001 was utilized.					
Location and Time Meridian	Name:	Lat (NAD83)	Long(NAD83)	Time Meridian:	
	Fire Island	N 61° 10' 20.8"	W 150° 12' 19.3"	0° (UTC)	
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW	MHW
	Fire Island	6/11/2004	11/6/2004	1.122 M	9.159
Tide Observer	Terra Surveys, LLC 1930 South Whiting Circle Palmer, Alaska 99645 (907) 745-7215				
Gauges	Design Analysis Ass. H350XL/355 bubbler systems.				
Install Type	Each gauge was secured inside a waterproof case, and fastened vertically to a wooden brace above the high water line. A weather port covered the gauges.				
Tide Staff	No tide staff was installed. Levelling was performed from a tidal bench mark to the water surface. The water height was read using a metric rod with a stilling well attached to remove interference from waves.				
Bench Marks	The following bench marks were installed at these sites:  none  The following bench marks were recovered at these sites: Fire Island:13,N,C,D,E,Rife,12				
Levels	Bench marks were levelled at the installation and removal of the tidal stations. The bench marks and station datums were connected through frequent water level measurements. The level runs closed within NOS tolerance.				
Final Tidal Zoning	This survey was tide corrected using a combination of a dual gauge distance weighted interpolation and standard zoning(developed by John Oswald and Associates in 2001).				
Reduction of Hydrographic Data	Six minute tide data reduced to MLLW and applied with verified Anchorage (945-5920) tides after the final extraction from CARIS.				