

**2005 FIELD and FINAL TIDE NOTE**  
**Hydrographic Sheet: H11274**  
**Sheet B**  
**Approaches to Port Clarence**  
**Seward Peninsula, Alaska**

NOAA Project No:		OPR-R365-KR-05 Approaches to Port Clarence, Alaska			
NOAA Contract No:		DG 133C04CQ0006			
The NOS Nome, Norton Sound (946-8756) served as a control for the subordinate station on the project. Datum determinations were made for the tertiary subordinate station Pt. Spencer (946-9237). The NTDE 1983-2001 was utilized.					
Location and Time Meridian	Name:	Lat (NAD83)	Long (NAD83)	Time Meridian:	
	Pt. Spencer	65° 15' 30" N	166° 50' 50" W	0° (UTC)	
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW	MHW
	Pt. Spencer	7/22/2006	9/3/2006	1.382	0.401
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	Tide gauges were housed in a plastic structure located above the beach line on a sandy berm. The orifice for gauge A was attached to a 1m x 1m anchor weighing 750lbs. The orifice for gauge B was attached to a 0.3m diameter steel disk weighing approximately 250lbs. Both anchors were set in 5.5m of water. The anchors were set approximately 80m offshore using the R/V Peregrine. The tubing from each orifice to the respective gauge is approximately 120m in length.				
Tide Staff	No tide staff was installed. Spirit leveling was observed between a nearby tidal bench mark and the water. The survey rod was outfitted with a stilling well to dampen wave action.				
Bench Marks	The following bench marks were installed at this site: 9237A 2005, OBM RM 2 1945, OBM July 1944  The following bench marks were recovered at this site: Pt. Spencer: NO 1 1950, NO 2 1950, NO 3 1950,				
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 Tides	This survey was tide corrected using the Pt. Spencer (846-9237) tide data.				
Reduction of Hydrographic Data	Six minute tide data were reduced to MLLW and applied after the final extraction from CARIS.				