2003 FIELD and FINAL TIDE NOTE

Registry Number: H11194

Sheet AE
Castle Cape and Necessity Cove
SW Alaska Peninsula

NOAA Project No:	OPR-P182-KR-2003 Alaska
NOAA Contract No:	50-DGNC-0-90017

The Sand Point, Alaska tide station (945-9450) served as control for the subordinate stations for this project. Datum determinations were made for the primary subordinate station at Castle Bay (949-8907). The NTDE 1983 - 2001 was utilized.

Location and Time Meridian	Name:	Lat (NAD 83)	Long (NAD 83)	Time Meridian:
	Castle Bay:	56° 13' 54"	158° 20' 48"	0° (UTC)
Time Period and Datum Reference	Name:	Established:	Removed:	MLLW MHW units
	Castle Bay:	4/25/2003	6/7/2003	0.000 2.441 meters
				NOS Published Datum

Tide observer	John Oswald & Associates LLC (JOA) 12001 Audubon Drive Anchorage, Alaska 99516 (under subcontract to LCMF, LLC and Thales GeoSolutions, Anchorage, AK)
Gauges	Design Analysis H350/355 bubbler systems.
Installation	Each gauge was secured inside a waterproof case, and fastened vertically to a wooden brace above the high water line. A tent covered each gauge installation . Refer to the tide station packages for additional site specific details of installation.
Tide staff	None. 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.
Benchmarks	The following benchmarks were recovered at this site: Castle Bay: 8907 A 2001, 8907 B 2001, 8907 C 2001, 8907 D 2001, 8907 E 2001 NGS Triangulation Station NEW (PID# UW1335), NEW RM 1 1924
Levels	Benchmarks were leveled at the installation and removal of each tidal station. The benchmarks and station datums were connected through frequent leveling to the water. The level runs closed within NOS tolerance. Benchmarks were stable.
Final Tidal Zoning	The final tidal zoning follows this report. This zoning is the same as the final tidal zoning developed by LCMF in 2001 for NOS Project OPR-P182-KR-2001.
Reduction of Hydrographic data	Thales GeoSolutions (the prime contractor) was provided published NOS datums by JOA during May 2003 and MLLW correctors throughout the field season. In July 2003, JOA verified the datums using tide data from this field season, and forwarded all data necessary to reduce hydrographic soundings to the prime contractor.