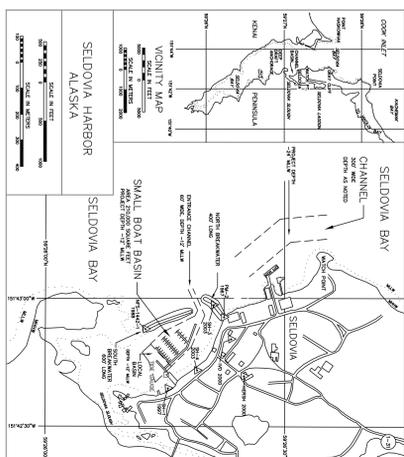


VOLUME COMPUTATIONS

Project Depth -24' MLW	CUBIC YARDS
MINIMUM PAY LINE (-24' MLW)	243
BETWEEN MINIMUM PAY LINE AND MAXIMUM PAY LINE (-25' MLW)	133
VOLUME AVAILABLE ALONG SIDESLOPES (3:1 H:V)	489
TOTAL	865



NOTES

- HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83(98S), IN US SURVEY FEET BASED ON A STATE GPS NETWORK HOLDING NOS EPOCH 2000.00 CORS L1 PHASE CENTER (NOS PID 449553). (SEE NOTE 7 BELOW). "KODAK" (NOS PID 44546) AND "RANCHO" (NOS PID 449553). (SEE NOTE 7 BELOW).
- VERTICAL CONTROL IS MEAN LOWER LOW WATER DATUM, IN US SURVEY FEET (MLLW=0.07) FROM NOS/MNOS TIDAL BENCH MARK LSI: 9455500 SELDOVIA, COOK INLET, ALASKA, PUBLISHED 04/21/2003.
- SOUNDINGS ARE IN FEET AND ARE MINS UNLESS OTHERWISE INDICATED.
- THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
- SOUNDING OPERATIONS WERE CONDUCTED ON JUNE 24-26, 2003 USING AN ODOM HYDROBIC SYSTEM FROM A TRIMBLE 4000SST BASE STATION SET AT USACE DOKED BC CORRECTIONS BROADCAST FROM A TRIMBLE 4000SST RECEIVER OPERATING ON RFOC 157.050 MHz. SURVEY DATA WAS COLLECTED WITH A TRIMBLE 4000SST RECEIVER OPERATING ON RFOC 157.050 MHz. SURVEY DATA WAS COLLECTED WITH A TRIMBLE 4000SST RECEIVER OPERATING ON RFOC 157.050 MHz. SURVEY DATA WAS COLLECTED WITH A TRIMBLE 4000SST RECEIVER OPERATING ON RFOC 157.050 MHz.
- VERTICAL CONTROL WAS SURVEYED JUNE 23&26, 2003 USING OPTICAL INSTRUMENTS AND DIRMER BENCH MARKS. ANIMATED CONTROL POINTS WERE SURVEYED JUNE 23&26, 2003 USING OPTICAL INSTRUMENTS AND DIRMER BENCH MARKS. ANIMATED CONTROL POINTS WERE SURVEYED JUNE 23&26, 2003 USING OPTICAL INSTRUMENTS AND DIRMER BENCH MARKS.
- HORIZONTAL CONTROL VALUES WERE TRANSFORMED INTO THE NOS CORS EPOCH 2003 DATUM HOLDING USACE DOKED BC SH-1-1997 AS IN 1,990,007.04, E 1,321,693.21 AND USACE SBC SURVEY ARE DENOTED IN THE CONTROL TABLE WITH AN ASTERISK (*) WHICH WERE NOT B UNSURVEYED CONTROL POINTS. DATA FEATURES, GRID TIES, PROJECT LIMITS AND ARE TO NAVIGATION WERE TRANSFORMED FROM NAD83(98) TO NAD83(98S) USING A FIXED SCALE. LEAST SQUARES TRANSFORMATION WITHIN TRIMBLE GEOMATICS OFFICE SOFTWARE (V1.60).

CONTROL DATA

STATION	NORTHING	EASTING	ELEV.	DESCRIPTION
* LIGHT 1965	1,990,669.92	1,320,458.88	27.08	USACE SBC
PA-2 1967	1,990,886.83	1,320,920.24	29.43	USACE SBC
PA-3 1987	1,990,428.99	1,320,821.28	23.70	USACE SBC
WATCH 1988	1,992,239.06	1,320,021.44	26.52	USACE SBC
* SEL-4	1,992,069.65	1,320,444.53	-	NOT SEARCHED FOR
SH-1 1997	1,991,667.24	1,321,929.21	28.46	USACE DOKED BC
HERSH 2000	1,991,108.35	1,321,151.99	42.41	USACE DOKED BC
SH-2 1997	1,991,667.24	1,321,929.21	29.27	USACE DOKED BC
SH-3 2003	1,990,720.58	1,320,500.61	28.99	USACE DOKED BC
SH-4 2003	1,990,453.25	1,321,371.97	29.54	USACE DOKED BC

PROJECT LIMITS

CORNER	NORTHING	EASTING	CORNER	NORTHING	EASTING
1	1,992,302.21	1,319,862.36	4	1,991,122.38	1,319,884.12
2	1,991,832.20	1,319,860.50	5	1,991,735.91	1,319,560.13
3	1,991,286.31	1,320,230.66	6	1,992,203.39	1,319,562.36

NAVIGATION AIDS

USCG No.	DESCRIPTION	NORTHING	EASTING
26165	LIGHT 3	1,992,242.2	1,320,045.0
26170	SELDOVIA DOCK LIGHTS (2) (NORTH)	1,991,653.9	1,320,106.2
26170	SELDOVIA DOCK LIGHTS (2) (SOUTH)	1,991,498.0	1,320,222.8
26170	SELDOVIA DOCK LIGHT POLE (SOUTH)	1,991,698.2	1,320,234.2
26175	DAYBUOY 4	1,991,698.2	1,320,167.2
26180	SELDOVIA BREAKWATER LIGHT 5	1,990,666.6	1,320,457.8



CONTRACTOR: TERESA SURVEYS, LLC
CITY: PALMER
STATE: ALASKA

CONTRACT NO.: DACMS-01-D-0001
STATE: ALASKA

PROJECT: SELDOVIA DEEP DRAFT CHANNEL
PROJECT CONDITION SURVEY
JUNE 22-28, 2003

APPROVED: _____
DATE: _____

SCALE: 1" = 50'
SHEET: 1 OF 1

SURVEY NO.: 2078-03