

VIBRACORE LOG						
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 1 CORE NO: LKVC - 6						
COORDINATES: N = 1076200 E = 279223	DATE: JAN. 26, 1995 START TIME: 1510 END TIME: 1515	WATER DEPTH: 33.0 Ft. NGVD DRILLER: EXMAR CLIENT REP: M. D. ANDREWS				
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL: 12.0'	33.0'	0.0				
PENETRATION DEPTH: 5.4'			~	GRAY (N6), FINE / MEDIUM GRAINED SAND WITH CALCAREOUS SHELL HASH	1	1.76 Phi 0.30 mm 2.6 % SILT (SP)
LENGTH RECOVERED: 5.4'			~		1.0'	
LENGTH RETAINED : 5.4'	34.6'	1.6	~		34.0'	
SUPPORT VESSEL: EXMAR II						
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG SEACON		2.5	~	LT GRAY (N7), FINE / MED. GRAINED SAND WITH CALCAREOUS SHELL HASH	2	2.29 Phi 0.20 mm 3.3 % SILT (SP)
WEATHER:						
WIND:						
DIR: NORTH SPEED: 10 Kt		37.0'	4.0			
WAVES:						
DIR: NW HEIGHT: 1 - 2 Ft.			5.0	LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND	3	2.54 Phi 0.17 mm 11.0% SILT (SP - SM)
CURRENT:		38.4'	5.4	X X X X X X		
DIR: SOUTH SPEED: MODERATE				ROCK	38.0'	
ANALYSIS BY: MDA						
ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE		7.5				
SAND						
SHELLS						
ROCK FRAG.						
SHELL HASH						
ROCK		10.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD

NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927

NOTE: CORE WEIGHTED COMPOSITE 0.22 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-6 S#1
SAMPLE ELEV. (FT. NGVD): -34.0
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 56.65
SAMPLE WEIGHT AFTER WASH (GRAMS): 55.25

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.42	.74	99.26
7	-1.5	2.800	.76	1.34	98.66
10	-1.0	2.000	1.24	2.19	97.81
14	-0.5	1.400	1.92	3.39	96.61
18	0.0	1.000	2.81	4.96	95.04
25	0.5	.710	5.76	10.17	89.83
35	1.0	.500	13.73	24.24	75.76
45	1.5	.355	20.90	36.89	63.11
60	2.0	.250	29.44	51.97	48.03
80	2.5	.180	39.06	68.95	31.05
120	3.0	.125	51.95	91.70	8.30
170	3.5	.090	54.92	96.95	3.05
200	3.75	.075	55.17	97.39	2.61
230	4.0	.063	55.91	98.69	1.31
PAN			56.61	99.93	.07

PHI(5): .00	PHI(16): .71	PHI(25): 1.03
PHI(50): 1.93	PHI(75): 2.63	PHI(84): 2.83
PHI(95): 3.31		

SIEVE LOSS(g): .04	SILT/CLAY: 2.61%
SKEWNESS: -.551	KURTOSIS: .847

GRAPHIC METHOD

MEAN (PHI): 1.76	SORTING: 1.06
MEAN (mm): .30	MEDIAN (mm): .26
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

MOMENT METHOD

MEAN (PHI): 1.76	SORTING: 1.09
MEAN (mm): .30	

DATA FILE NAME: LKVC6-S1.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-6 S#2
SAMPLE ELEV. (FT. NGVD): -35.5
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.67
SAMPLE WEIGHT AFTER WASH (GRAMS): 66.57

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.07	.10	99.90
10	-1.0	2.000	.19	.28	99.72
14	-0.5	1.400	.31	.45	99.55
18	0.0	1.000	.77	1.12	98.88
25	0.5	.710	2.17	3.16	96.84
35	1.0	.500	6.25	9.10	90.90
45	1.5	.355	11.16	16.25	83.75
60	2.0	.250	18.73	27.28	72.72
80	2.5	.180	32.96	48.00	52.00
120	3.0	.125	58.70	85.48	14.52
170	3.5	.090	65.67	95.63	4.37
200	3.75	.075	66.42	96.72	3.28
230	4.0	.063	67.57	98.40	1.60
PAN			68.64	99.96	.04

PHI(5): .65 PHI(16): 1.48 PHI(25): 1.90
PHI(50): 2.53 PHI(75): 2.86 PHI(84): 2.98
PHI(95): 3.47

SIEVE LOSS(g): .03 SILT/CLAY: 3.28%
SKEWNESS: -.930 KURTOSIS: 1.197

GRAPHIC METHOD

MEAN (PHI): 2.22 SORTING: .75
MEAN (mm): .21 MEDIAN (mm): .17
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.29 SORTING: .82
MEAN (mm): .20

DATA FILE NAME: LKVC6-S2.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-6 S#3
SAMPLE ELEV. (FT. NGVD): -38.0
SAMPLE DEPTH (FT.): -5.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 68.07
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.16

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.69	1.01	98.99
7	-1.5	2.800	1.22	1.79	98.21
10	-1.0	2.000	1.99	2.92	97.08
14	-0.5	1.400	2.90	4.26	95.74
18	0.0	1.000	3.93	5.77	94.23
25	0.5	.710	5.62	8.26	91.74
35	1.0	.500	7.55	11.09	88.91
45	1.5	.355	8.77	12.88	87.12
60	2.0	.250	11.35	16.67	83.33
80	2.5	.180	17.90	26.30	73.70
120	3.0	.125	38.02	55.85	44.15
170	3.5	.090	55.93	82.17	17.83
200	3.75	.075	60.61	89.04	10.96
230	4.0	.063	64.49	94.73	5.27
PAN			67.97	99.85	.15

PHI(5): -.26 PHI(16): 1.91 PHI(25): 2.43
PHI(50): 2.90 PHI(75): 3.36 PHI(84): 3.57
PHI(95): 4.01

SIEVE LOSS(g): .10 SILT/CLAY: 10.96%
SKEWNESS: -2.046 KURTOSIS: 1.878

GRAPHIC METHOD

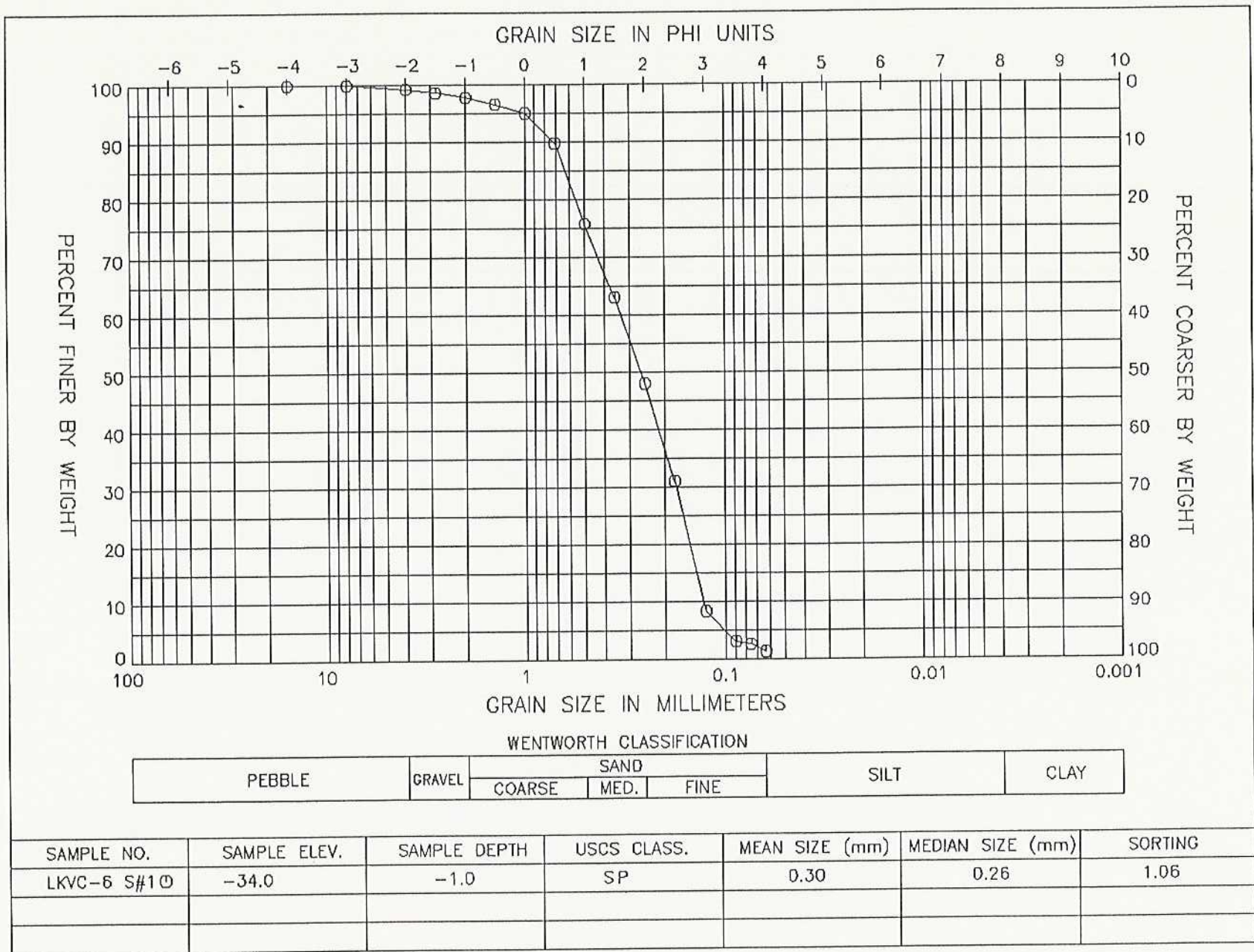
MEAN (PHI): 2.43 SORTING: .83
MEAN (mm): .19 MEDIAN (mm): .13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

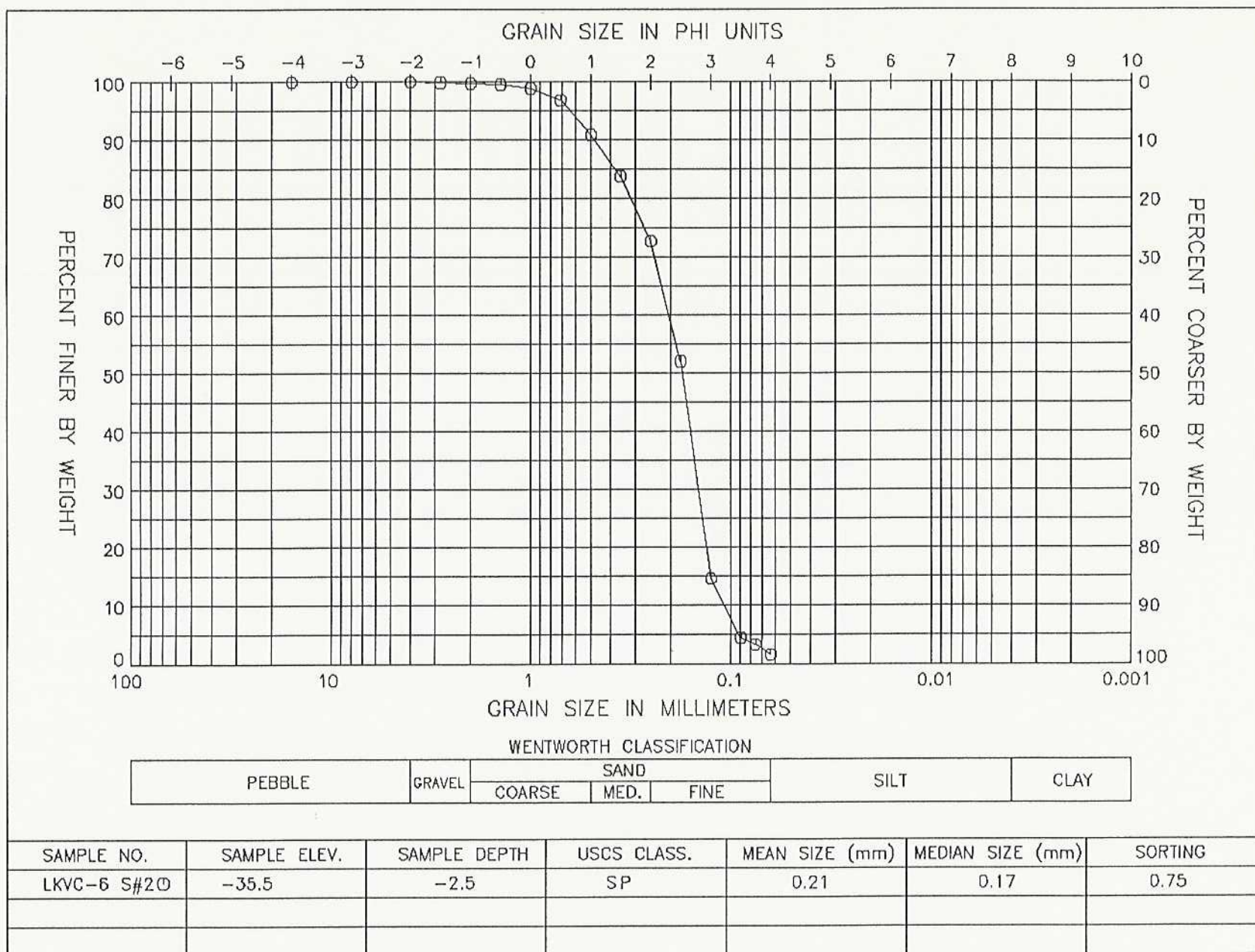
MEAN (PHI): 2.54 SORTING: 1.23
MEAN (mm): .17

DATA FILE NAME: LKVC6-S3.TAB

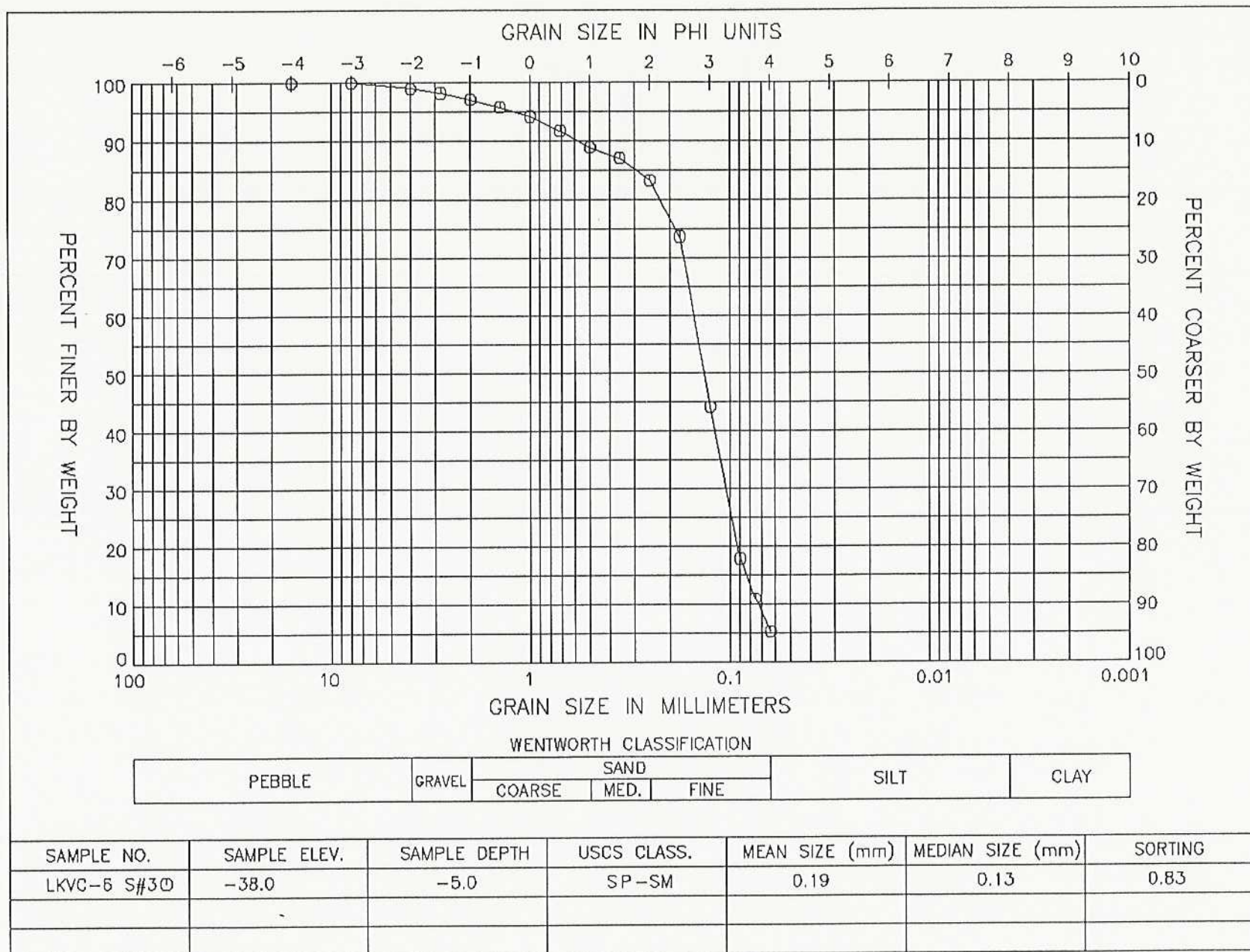
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

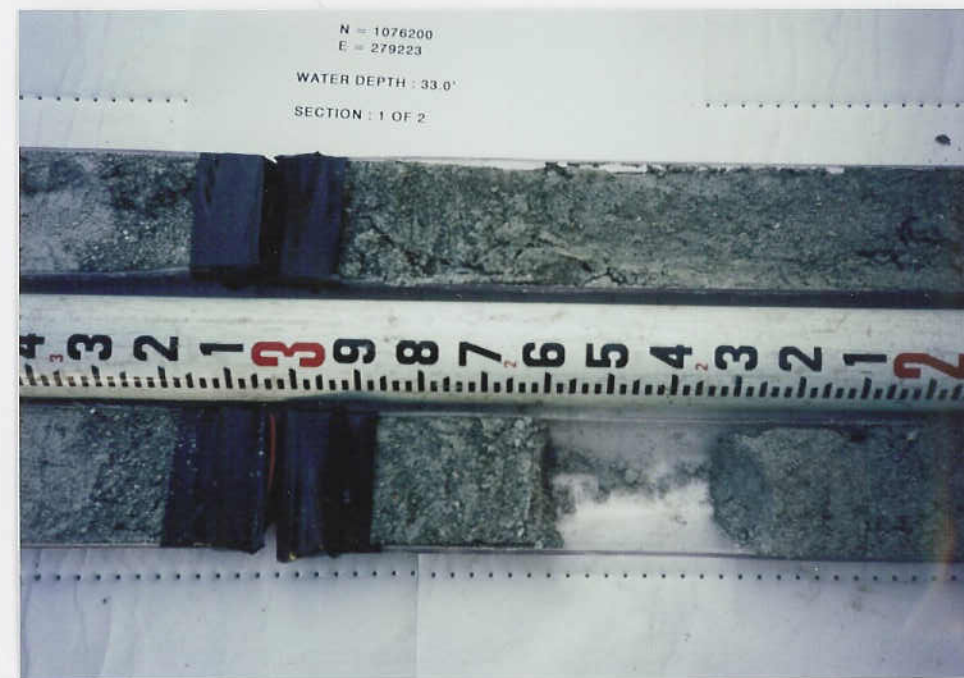
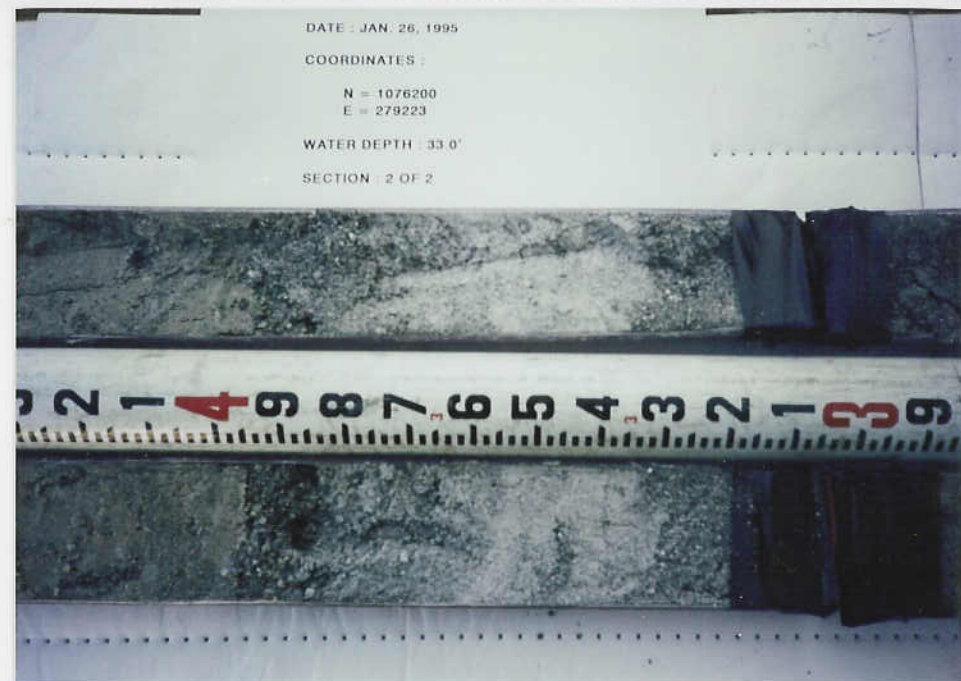
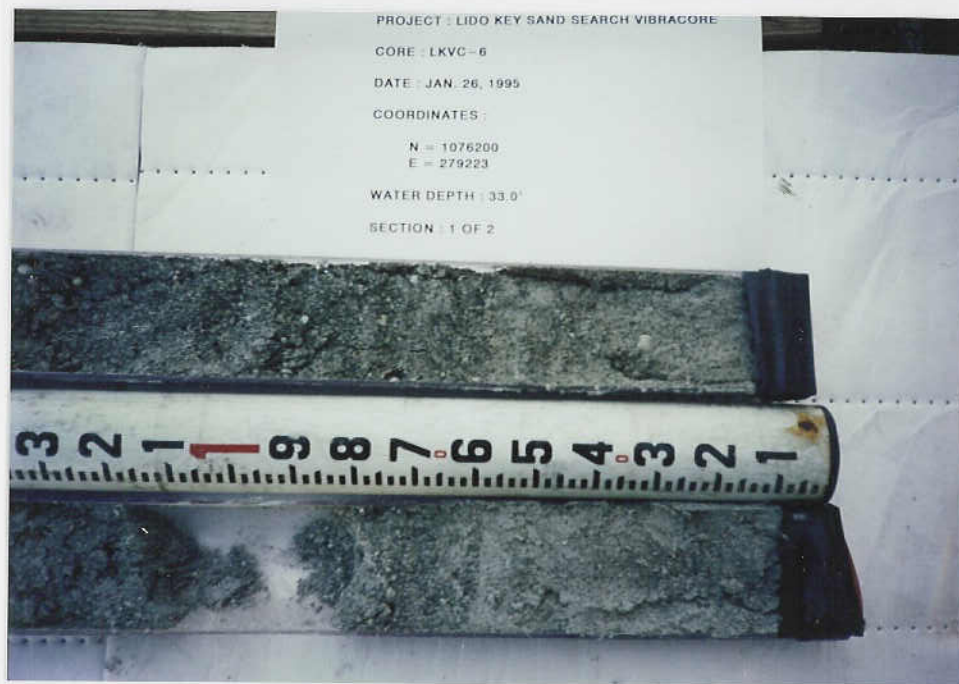


GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





LKVC-6

DATE: JAN 26, 1995

COORDINATES:

N = 1076200

E = 279223

WATER DEPTH: 33.0'

SECTION: 2 OF 2

