






VIBRACORE LOG							
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 4 CORE NO: LKVC - 11							
COORINATES: N = 1087135 E = 271751		DATE: JAN. 27, 1995 START TIME: 1301 END TIME: 1306		WATER DEPTH: 36.4 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'	36.4'	0.0					
PENETRATION DEPTH: 3.0'			~	GRAY (NS), FINE / MEDIUM GRAINED SAND WITH	1	0.96 Phi	
LENGTH RECOVERED: 2.5'	37.1'	0.7	~	CALCAROUS SHELL HASH	0.5'	0.51 mm	
LENGTH RETAINED : 2.5'					36.9	3.6 % SILT (SP)	
SUPPORT VESSEL: EXMAR II				LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND			
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON		38.9'	2.5		2	2.99 Phi	
WEATHER:		39.4'	3.0	NOT RECOVERED X X X X X		0.13 mm	
WIND: DIR: VAR. SPEED: LIGHT				ROCK	2.3'	17.3 % SILT (SS)	
WAVES: DIR: VAR. HEIGHT: 0 - 1 Ft.			5.0		38.7		
CURRENT: DIR: SOUTH SPEED: LIGHT							
ANALYSIS BY: MDA							
ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE			7.5				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>SAND</p>  </div> <div style="text-align: center;"> <p>SHELLS</p>  </div> </div>							
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>ROCK FRAG.</p>  </div> <div style="text-align: center;"> <p>SHELL HASH</p>  </div> </div>							
<div style="text-align: center;"> <p>ROCK</p>  </div>			10.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
 NOTE : CORE WEIGHTED COMPOSITE 0.19 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-11 S1
SAMPLE ELEV. (FT. NGVD): -36.9
SAMPLE DEPTH (FT.): -0.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 70.73
SAMPLE WEIGHT AFTER WASH (GRAMS): 68.30

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	2.16	3.05	96.95
7	-1.5	2.800	3.71	5.25	94.75
10	-1.0	2.000	5.39	7.62	92.38
14	-0.5	1.400	7.83	11.07	88.93
18	0.0	1.000	11.60	16.40	83.60
25	0.5	.710	20.54	29.04	70.96
35	1.0	.500	35.61	50.35	49.65
45	1.5	.355	47.06	66.53	33.47
60	2.0	.250	57.83	81.76	18.24
80	2.5	.180	61.66	87.18	12.82
120	3.0	.125	65.57	92.70	7.30
170	3.5	.090	67.87	95.96	4.04
200	3.75	.075	68.21	96.44	3.56
230	4.0	.063	69.48	98.23	1.77
PAN			70.70	99.96	.04

PHI(5): -1.56 PHI(16): -.04 PHI(25): .34
PHI(50): .99 PHI(75): 1.78 PHI(84): 2.21
PHI(95): 3.35

SIEVE LOSS(g): .03 SILT/CLAY: 3.56%
SKEWNESS: -.187 KURTOSIS: 1.399

GRAPHIC METHOD

MEAN (PHI): .99 SORTING: 1.12
MEAN (mm): .50 MEDIAN (mm): .50
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): .96 SORTING: 1.29
MEAN (mm): .51

DATA FILE NAME: LKVC11S1.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-11 S2
SAMPLE ELEV. (FT. NGVD): -38.7
SAMPLE DEPTH (FT.): -2.3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 58.37
SAMPLE WEIGHT AFTER WASH (GRAMS): 49.00

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	.10	.17	99.83
10	-1.0	2.000	.35	.60	99.40
14	-0.5	1.400	.57	.98	99.02
18	0.0	1.000	.73	1.25	98.75
25	0.5	.710	.91	1.56	98.44
35	1.0	.500	2.06	3.53	96.47
45	1.5	.355	2.57	4.40	95.60
60	2.0	.250	3.50	6.00	94.00
80	2.5	.180	5.92	10.14	89.86
120	3.0	.125	21.79	37.33	62.67
170	3.5	.090	42.69	73.14	26.86
200	3.75	.075	48.28	82.71	17.29
230	4.0	.063	53.47	91.61	8.39
PAN			58.30	99.88	.12

PHI(5): 1.69 PHI(16): 2.61 PHI(25): 2.77
PHI(50): 3.18 PHI(75): 3.55 PHI(84): 3.79
PHI(95): 4.10

SIEVE LOSS(g): .07 SILT/CLAY: 17.29%
SKEWNESS: -.571 KURTOSIS: 1.273

GRAPHIC METHOD

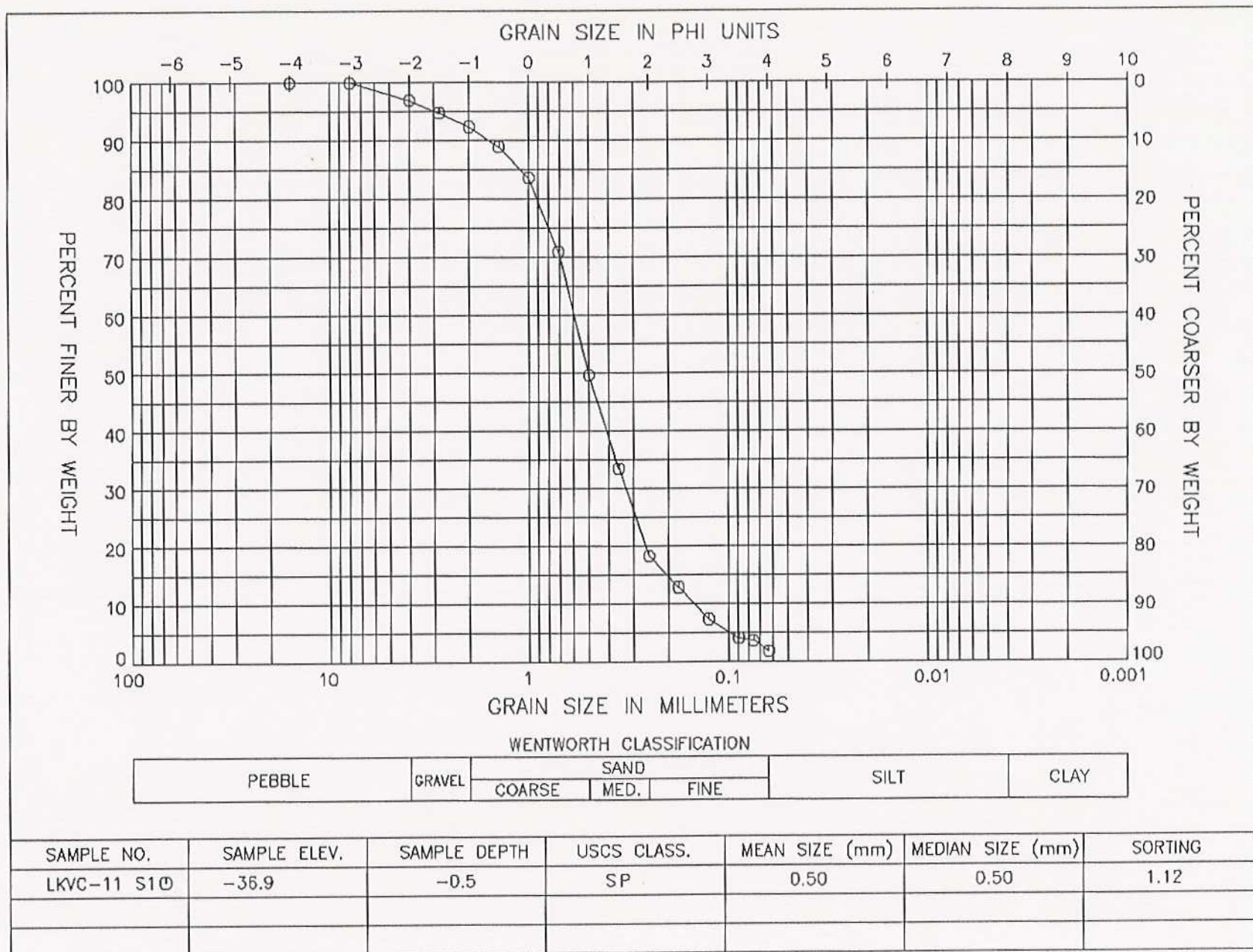
MEAN (PHI): 3.07 SORTING: .59
MEAN (mm): .12 MEDIAN (mm): .11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

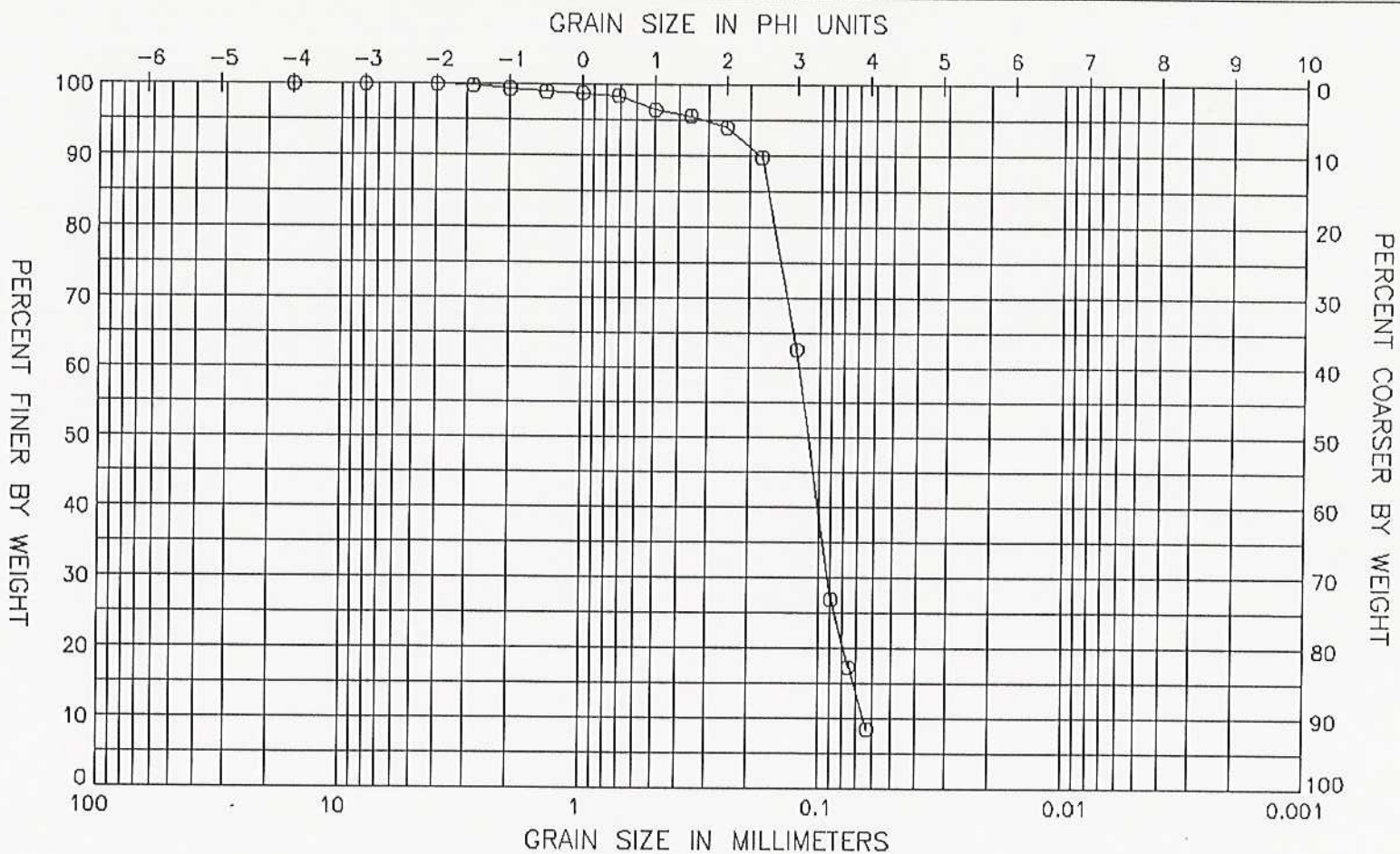
MEAN (PHI): 2.99 SORTING: .77
MEAN (mm): .13

DATA FILE NAME: LKVC11S2.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

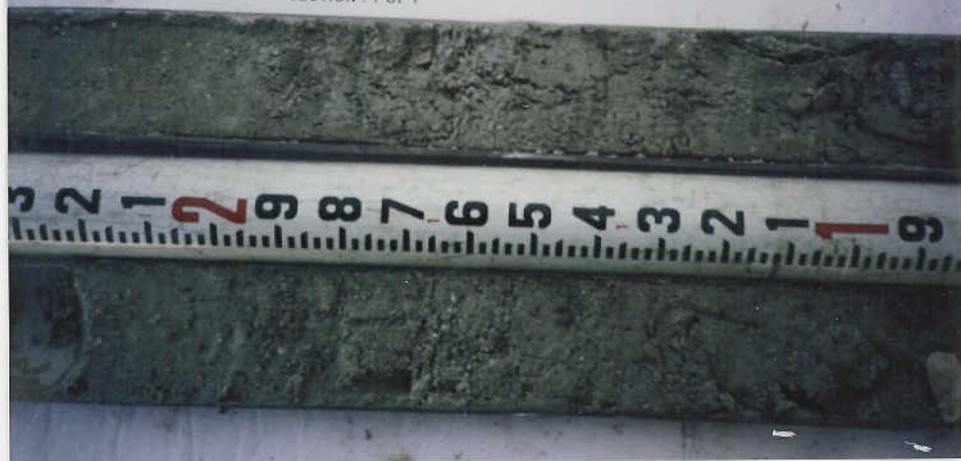


WENTWORTH CLASSIFICATION

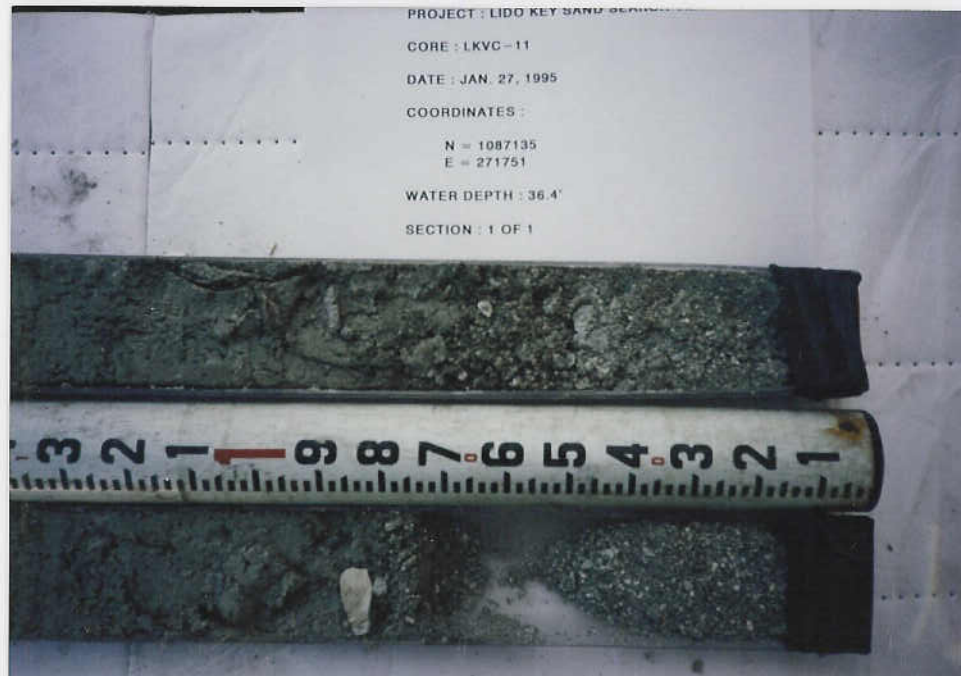
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-11 S20	-38.7	-2.3	SS	0.12	0.11	0.59

CORE : LKVC-11
DATE : JAN. 27, 1995
COORDINATES :
N = 1087135
E = 271751
WATER DEPTH : 36.4'
SECTION : 1 OF 1



PROJECT : LIDO KEY SAND BARRIER
CORE : LKVC-11
DATE : JAN. 27, 1995
COORDINATES :
N = 1087135
E = 271751
WATER DEPTH : 36.4'
SECTION : 1 OF 1



LKVC-11

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DATE : JAN. 27, 1995
COORDINATES :
N = 1087135
E = 271751
WATER DEPTH : 36.4'
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