






VIBRACORE LOG						
PROJECT: <u>LIDO KEY SAND SEARCH BORROW AREA 4</u> CORE NO: <u>LKVC - 12</u>						
COORDINATES: N = 1086342 E = 271123	DATE: JAN. 27, 1995 START TIME: 1002 END TIME: 1007	WATER DEPTH: 34.4 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'	34.4'	0.0				
PENETRATION DEPTH: 5.5'			~			
LENGTH RECOVERED: 4.9'			~			
LENGTH RETAINED : 4.9'			~			
SUPPORT VESSEL: EXMAR II			~	GRAY (NS), FINE / MEDIUM GRAINED SAND WITH CALCAREOUS SHELL HASH	1 1.0' 35.4	1.45 Phi 0.37 mm 2.8 % SILT (SP)
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON	36.9'	2.5	~		2 2.5' 36.9	2.19 Phi 0.22 mm 8.5 % SILT (SP - SM)
WEATHER:						
WIND:				LT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND		
DIR: NE SPEED: 5 - 10 Kt						
WAVES:						
DIR: EAST HEIGHT: 0 - 1 Ft.	39.3'	4.9			3 4.6' 39.0	2.84 Phi 0.14 mm 21.7 % SILT (SS)
CURRENT:	39.9'	5.5	NOT RECOVERED X X X X X	ROCK		
DIR: SOUTH SPEED: LIGHT						
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 0.27 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-12 S1
SAMPLE ELEV. (FT. NGVD): -35.4
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 53.74
SAMPLE WEIGHT AFTER WASH (GRAMS): 52.30

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	.24	.45	99.55
7	-1.5	2.800	.38	.71	99.29
10	-1.0	2.000	.92	1.71	98.29
14	-0.5	1.400	1.67	3.11	96.89
18	0.0	1.000	3.03	5.64	94.36
25	0.5	.710	6.73	12.52	87.48
35	1.0	.500	15.02	27.95	72.05
45	1.5	.355	24.75	46.06	53.94
60	2.0	.250	39.24	73.02	26.98
80	2.5	.180	47.82	88.98	11.02
120	3.0	.125	51.63	96.07	3.93
170	3.5	.090	52.18	97.10	2.90
200	3.75	.075	52.26	97.25	2.75
230	4.0	.063	53.00	98.62	1.38
PAN			53.72	99.96	.04

PHI(5): -.13	PHI(16): .61	PHI(25): .90
PHI(50): 1.57	PHI(75): 2.06	PHI(84): 2.34
PHI(95): 2.92		

SIEVE LOSS(g): .02	SILT/CLAY: 2.75%
SKEWNESS: -.348	KURTOSIS: 1.080

GRAPHIC METHOD

MEAN (PHI): 1.47	SORTING: .87
MEAN (mm): .36	MEDIAN (mm): .34

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.45	SORTING: .93
MEAN (mm): .37	

DATA FILE NAME: LKVC12S1.TAB

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

SAMPLE NO.: LKVC-12 S2
SAMPLE ELEV. (FT. NGVD): -36.9
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 60.01
SAMPLE WEIGHT AFTER WASH (GRAMS): 55.33

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	.63	1.05	98.95
7	-1.5	2.800	.99	1.65	98.35
10	-1.0	2.000	1.57	2.62	97.38
14	-0.5	1.400	2.30	3.83	96.17
18	0.0	1.000	3.14	5.23	94.77
25	0.5	.710	5.10	8.50	91.50
35	1.0	.500	8.68	14.46	85.54
45	1.5	.355	12.78	21.30	78.70
60	2.0	.250	19.96	33.26	66.74
80	2.5	.180	27.81	46.34	53.66
120	3.0	.125	43.24	72.05	27.95
170	3.5	.090	53.01	88.34	11.66
200	3.75	.075	54.90	91.48	8.52
230	4.0	.063	57.57	95.93	4.07
PAN			59.95	99.90	.10

PHI(5): -.08	PHI(16): 1.11	PHI(25): 1.65
PHI(50): 2.57	PHI(75): 3.09	PHI(84): 3.37
PHI(95): 3.95		

SIEVE LOSS(g): .06	SILT/CLAY: 8.52%
SKEWNESS: -1.278	KURTOSIS: 1.151

GRAPHIC METHOD

MEAN (PHI): 2.18	SORTING: 1.13
MEAN (mm): .22	MEDIAN (mm): .17

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.19	SORTING: 1.21
MEAN (mm): .22	

DATA FILE NAME: LKVC12S2.TAB

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

SAMPLE NO.: LKVC-12 S3
SAMPLE ELEV. (FT. NGVD): -39.0
SAMPLE DEPTH (FT.): -4.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 57.78
SAMPLE WEIGHT AFTER WASH (GRAMS): 45.82

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	.36	.62	99.38
10	-1.0	2.000	.85	1.47	98.53
14	-0.5	1.400	1.19	2.06	97.94
18	0.0	1.000	1.55	2.68	97.32
25	0.5	.710	2.40	4.15	95.85
35	1.0	.500	3.83	6.63	93.37
45	1.5	.355	5.06	8.76	91.24
60	2.0	.250	6.67	11.54	88.46
80	2.5	.180	9.56	16.55	83.45
120	3.0	.125	23.12	40.01	59.99
170	3.5	.090	40.35	69.83	30.17
200	3.75	.075	45.24	78.30	21.70
230	4.0	.063	51.71	89.49	10.51
PAN			57.71	99.88	.12

PHI(5): .67 PHI(16): 2.45 PHI(25): 2.68
PHI(50): 3.17 PHI(75): 3.65 PHI(84): 3.88
PHI(95): 4.12

SIEVE LOSS(g): .07 SILT/CLAY: 21.70%
SKEWNESS: -1.541 KURTOSIS: 1.455

GRAPHIC METHOD

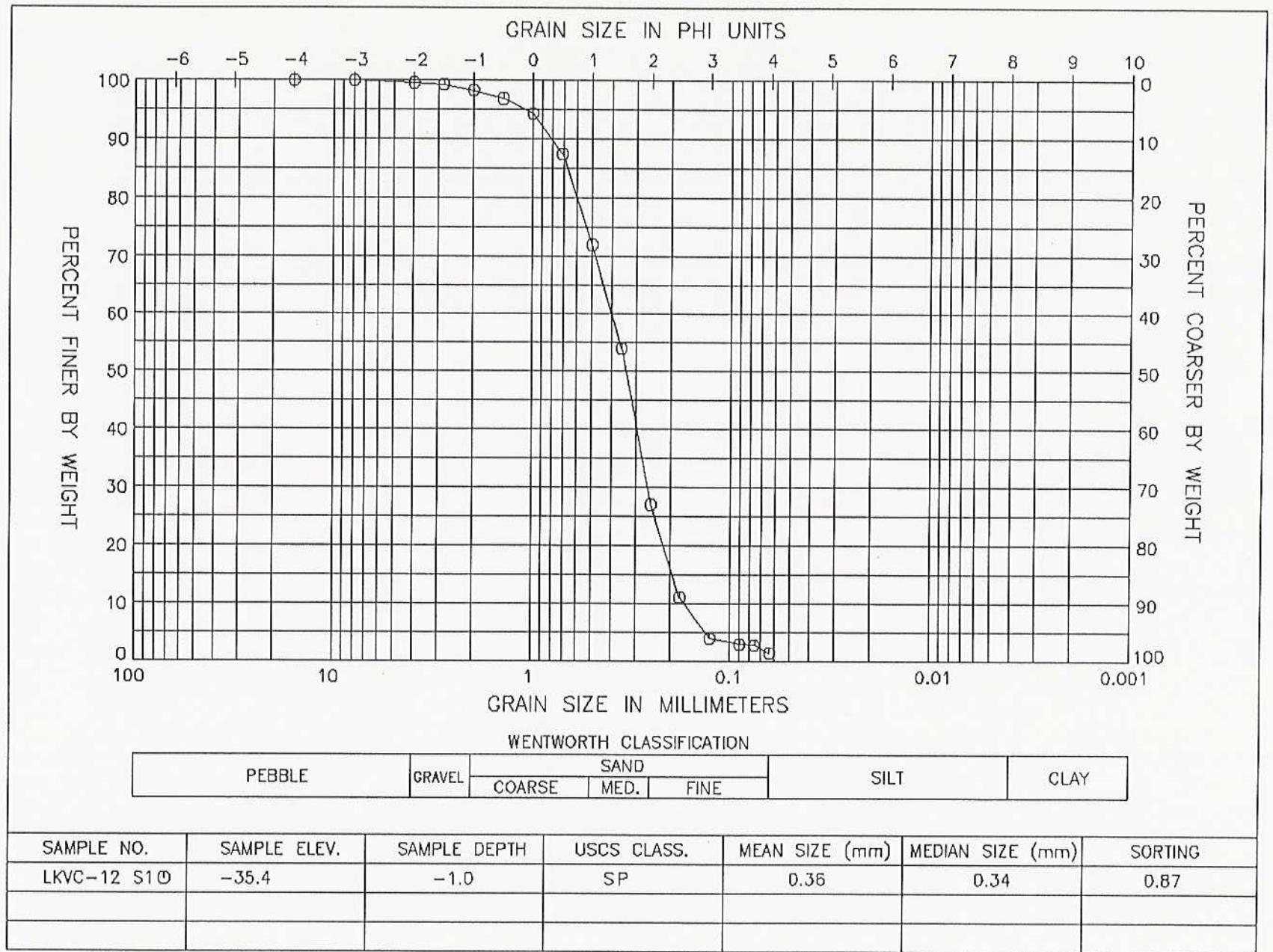
MEAN (PHI): 2.86 SORTING: .72
MEAN (mm): .14 MEDIAN (mm): .11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

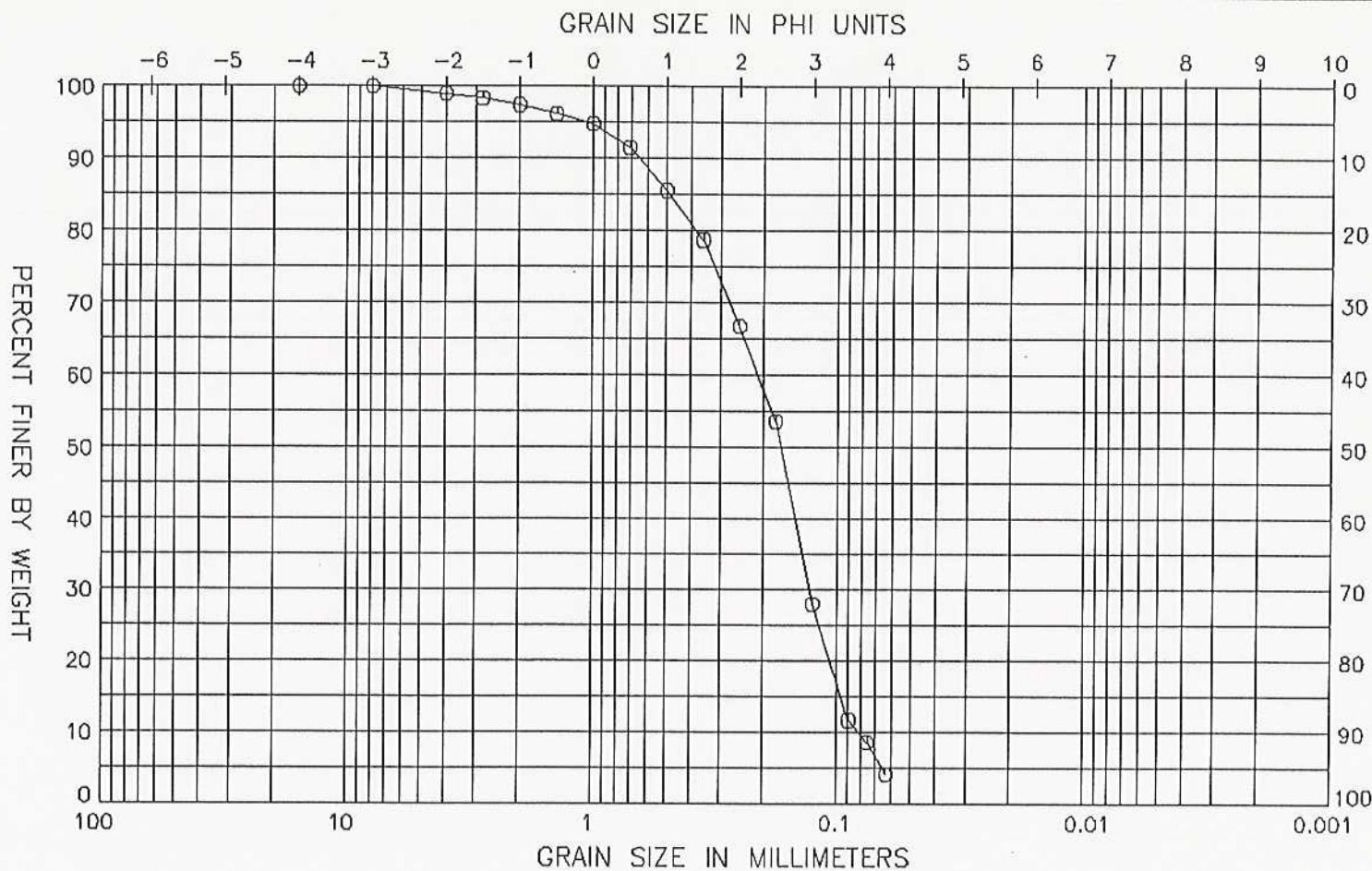
MEAN (PHI): 2.84 SORTING: 1.03
MEAN (mm): .14

DATA FILE NAME: LKVC12S3.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



PERCENT COARSER BY WEIGHT



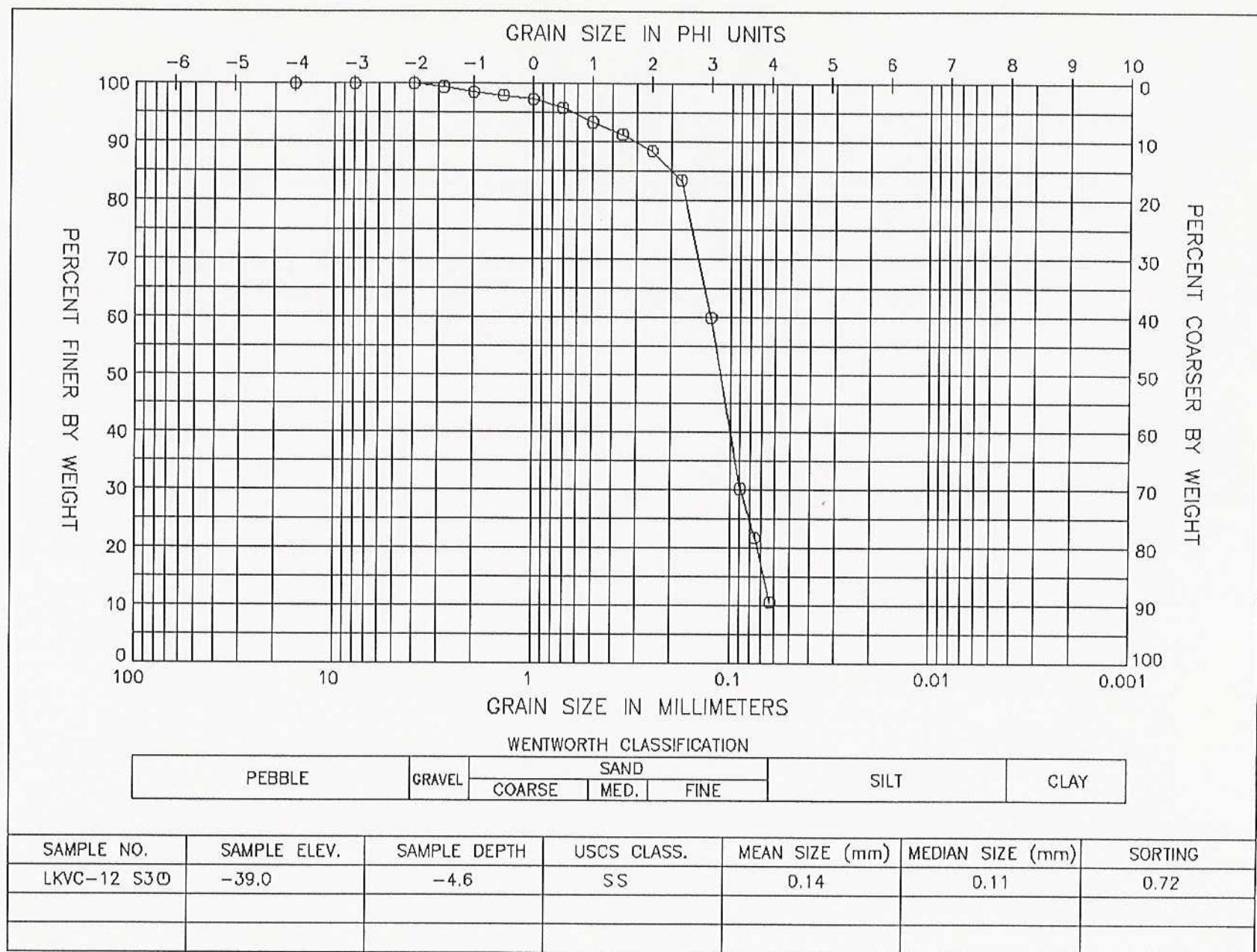
WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

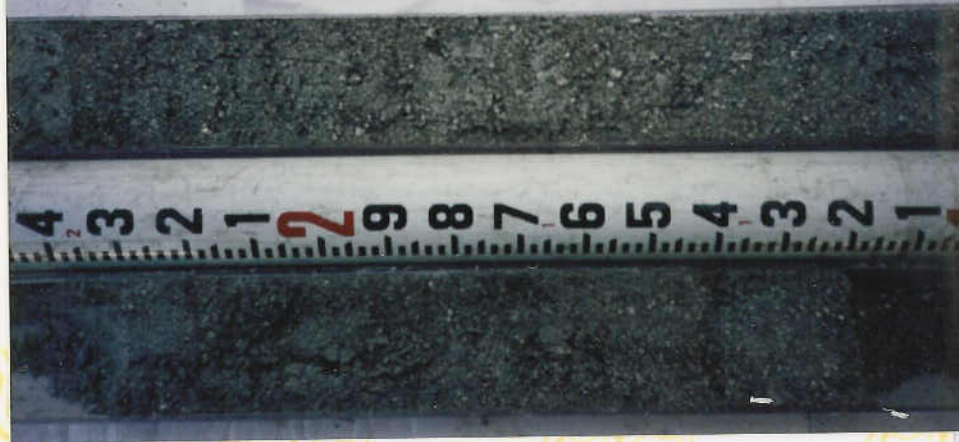
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-12 S20	-36.9	-2.5	SP-SM	0.22	0.17	1.13

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

GRAIN SIZE DISTRIBUTION CURVE
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E = 271123
WATER DEPTH : 34.4'
SECTION : 1 OF 1



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LKVC-12

