

DRILLING LOG		DIVISION: South Atlantic		INSTALLATION: Jacksonville District		SHEET 1 of 1	
1. PROJECT ESTERO ISLAND BEACH RESTORATION		10. SIZE AND TYPE OF BIT 3 5/8"		11. DATUM FOR ELEVATION SHOWN ^(TBM or MSL)			
(Coordinates or Station)				NGVD			
2. LOCATION X= 663009 Y= 765659		12. MANUFACTURER'S DESIGNATION OF DRILL		ALPINE PNEUMATIC VIBRACORE			
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN		Disturbed: 0.0 Undisturbed: 0.0			
(As shown on drawing title and file number)		14. TOTAL NO. OF CORE BOXES					
4. HOLE NO. EI-00-22		15. ELEVATION GROUND WATER					
5. NAME OF DRILLER MAURIZIO ROSSI		16. DATE HOLE		Started Completed			
6. DIRECTION OF HOLE VERTICAL		8/15/00		1623			
7. THICKNESS OF BURDEN 0.0 FT		17. ELEVATION TOP OF HOLE -5.0 ft					
8. DEPTH DRILLED INTO ROCK N/A		18. TOTAL CORE RECOVERY FOR BORING 85%					
9. TOTAL DEPTH OF HOLE 15.84 ft		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-5	0					
	1					
	2					
	3		SAND, fine-grained, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 2.5' Mean (mm): 0.13, Phi Sorting: 0.40 Silt: 2.8%
	4					
	5					
-10.7	6					
	7		SAND, fine-grained, trace silt, Gray (5Y-6/1) (SP-SM) from -10.7' to -14.2'		2	Sample #2, Depth = 7.0' Mean (mm): 0.15, Phi Sorting: 1.12 Silt: 6.3%
	8					
	9					
-14.2	10				3	Sample #3, Depth = 9.7' Mean (mm): 0.30, Phi Sorting: 2.16 Silt: 13.3%
	11		SILTY SAND, fine-grained, some clayey silt, some shell hash/shell fragments, Gray (5Y-6/1) (SM)			
	12					
	13					
-18.5	14					
	15		NO RECOVERY			
-20.8	16		End of Boring			
	17					
	18					
	19					
	20					
	21					
	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.408 N 81 58.744 W
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-22#1

SAMPLE ELEV. (FT. NGVD): 2.5

SAMPLE DEPTH (FT.): 2.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.27

SAMPLE WEIGHT AFTER WASH (GRAMS): 93.91

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.00	0.00	100.00
7	-1.50	2.800	0.00	0.00	100.00
10	-1.00	2.000	0.05	0.05	99.95
14	-0.50	1.400	0.14	0.15	99.85
18	0.00	1.000	0.26	0.27	99.73
25	0.50	0.710	0.45	0.47	99.53
35	1.00	0.500	0.66	0.69	99.31
45	1.50	0.355	0.87	0.90	99.10
60	2.00	0.250	1.25	1.30	98.70
80	2.50	0.180	3.16	3.28	96.72
120	3.00	0.125	56.49	58.68	41.32
170	3.50	0.090	91.46	95.00	5.00
200	3.75	0.075	93.61	97.24	2.76
230	4.00	0.063	95.05	98.73	1.27
PAN			96.25	99.98	0.02

PHI (5): 2.52

PHI (16): 2.61

PHI (25): 2.70

PHI (50): 2.92

PHI (75): 3.22

PHI (84): 3.35

PHI (95): 3.50

SIEVE LOSS(g): 0.02

SILT/CLAY: 2.76%

SKEWNESS: 0.235

KURTOSIS: 0.763

GRAPHIC METHOD

MEAN (PHI): 2.98

SORTING: 0.37

MEAN (mm): 0.13

MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.93

SORTING: 0.40

MEAN (mm): 0.13

DATA FILE NAME: EI-00-22#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-22#2

SAMPLE ELEV. (FT. NGVD): 7.0

SAMPLE DEPTH (FT.): 7.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.69

SAMPLE WEIGHT AFTER WASH (GRAMS): 94.66

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.40	0.40	99.60
7	-1.50	2.800	0.80	0.80	99.20
10	-1.00	2.000	1.53	1.53	98.47
14	-0.50	1.400	3.21	3.22	96.78
18	0.00	1.000	4.99	5.01	94.99
25	0.50	0.710	7.82	7.84	92.16
35	1.00	0.500	10.17	10.20	89.80
45	1.50	0.355	11.76	11.80	88.20
60	2.00	0.250	13.86	13.90	86.10
80	2.50	0.180	17.16	17.21	82.79
120	3.00	0.125	43.89	44.03	55.97
170	3.50	0.090	86.95	87.22	12.78
200	3.75	0.075	93.39	93.68	6.32
230	4.00	0.063	96.96	97.26	2.74
PAN			99.67	99.98	0.02

PHI (5): 0.00

PHI (16): 2.32

PHI (25): 2.65

PHI (50): 3.07

PHI (75): 3.36

PHI (84): 3.46

PHI (95): 3.84

SIEVE LOSS (g): 0.02

SILT/CLAY: 6.32%

SKEWNESS: -2.005

KURTOSIS: 2.208

GRAPHIC METHOD

MEAN (PHI): 2.54

SORTING: 0.57

MEAN (mm): 0.17

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.70

SORTING: 1.12

MEAN (mm): 0.15

DATA FILE NAME: EI-00-22#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-22#3

SAMPLE ELEV. (FT. NGVD): 9.7

SAMPLE DEPTH (FT.): 9.7

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 97.83

SAMPLE WEIGHT AFTER WASH (GRAMS): 85.44

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	2.37	2.42	97.58
5	-2.00	4.000	9.32	9.53	90.47
7	-1.50	2.800	13.38	13.68	86.32
10	-1.00	2.000	16.76	17.13	82.87
14	-0.50	1.400	19.63	20.07	79.93
18	0.00	1.000	21.80	22.28	77.72
25	0.50	0.710	23.71	24.24	75.76
35	1.00	0.500	26.04	26.62	73.38
45	1.50	0.355	27.83	28.45	71.55
60	2.00	0.250	29.56	30.22	69.78
80	2.50	0.180	32.18	32.89	67.11
120	3.00	0.125	55.74	56.98	43.02
170	3.50	0.090	82.09	83.91	16.09
200	3.75	0.075	84.82	86.70	13.30
230	4.00	0.063	91.54	93.58	6.42
PAN			97.82	99.99	0.01

PHI (5): -2.64

PHI (16): -1.16

PHI (25): 0.66

PHI (50): 2.86

PHI (75): 3.33

PHI (84): 3.51

PHI (95): 4.05

SIEVE LOSS (g): 0.01

SILT/CLAY: 13.30%

SKEWNESS: -0.920

KURTOSIS: 1.025

GRAPHIC METHOD

MEAN (PHI): 1.32

SORTING: 2.34

MEAN (mm): 0.40

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

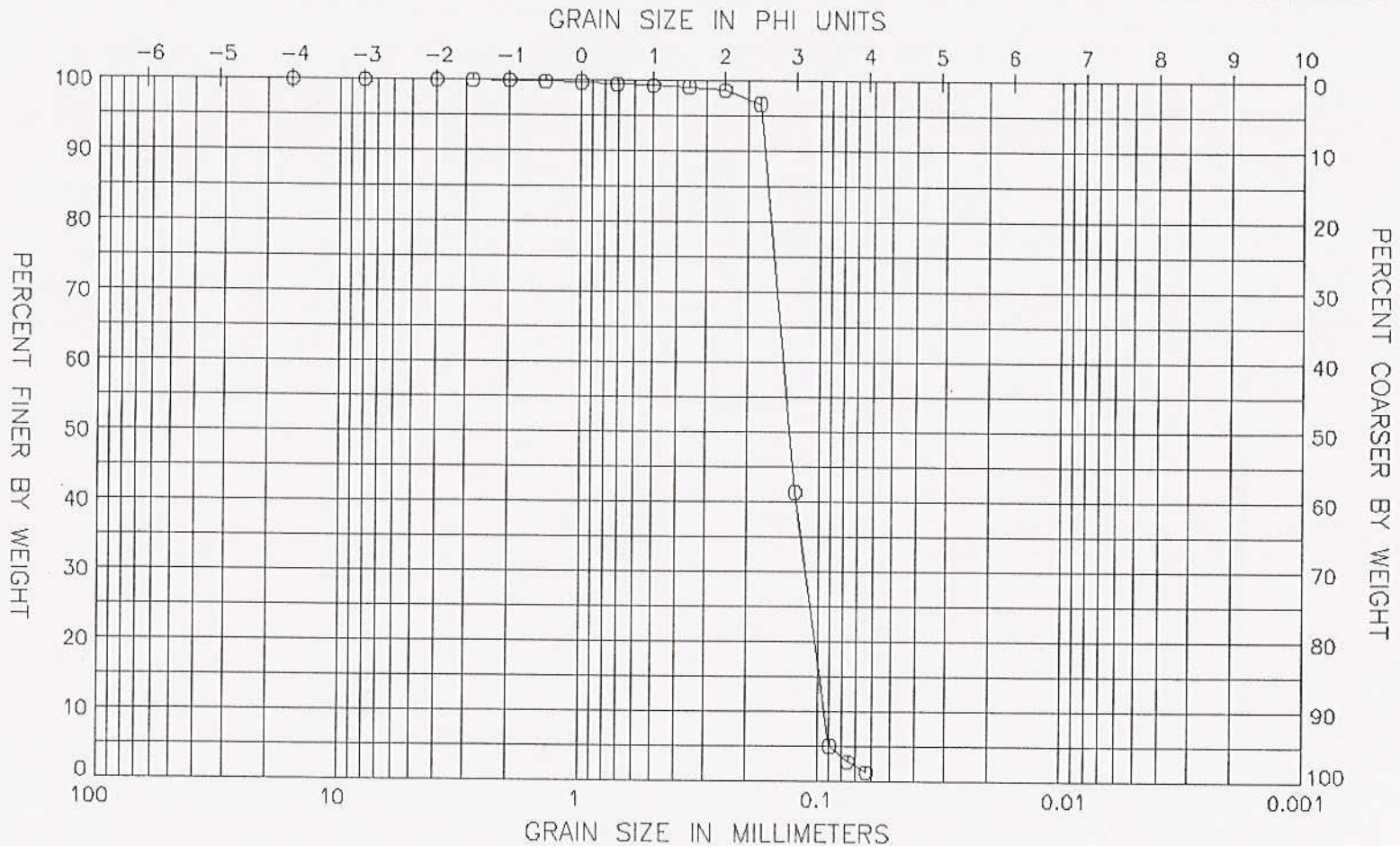
MEAN (PHI): 1.75

SORTING: 2.16

MEAN (mm): 0.30

DATA FILE NAME: EI-00-22#3.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000

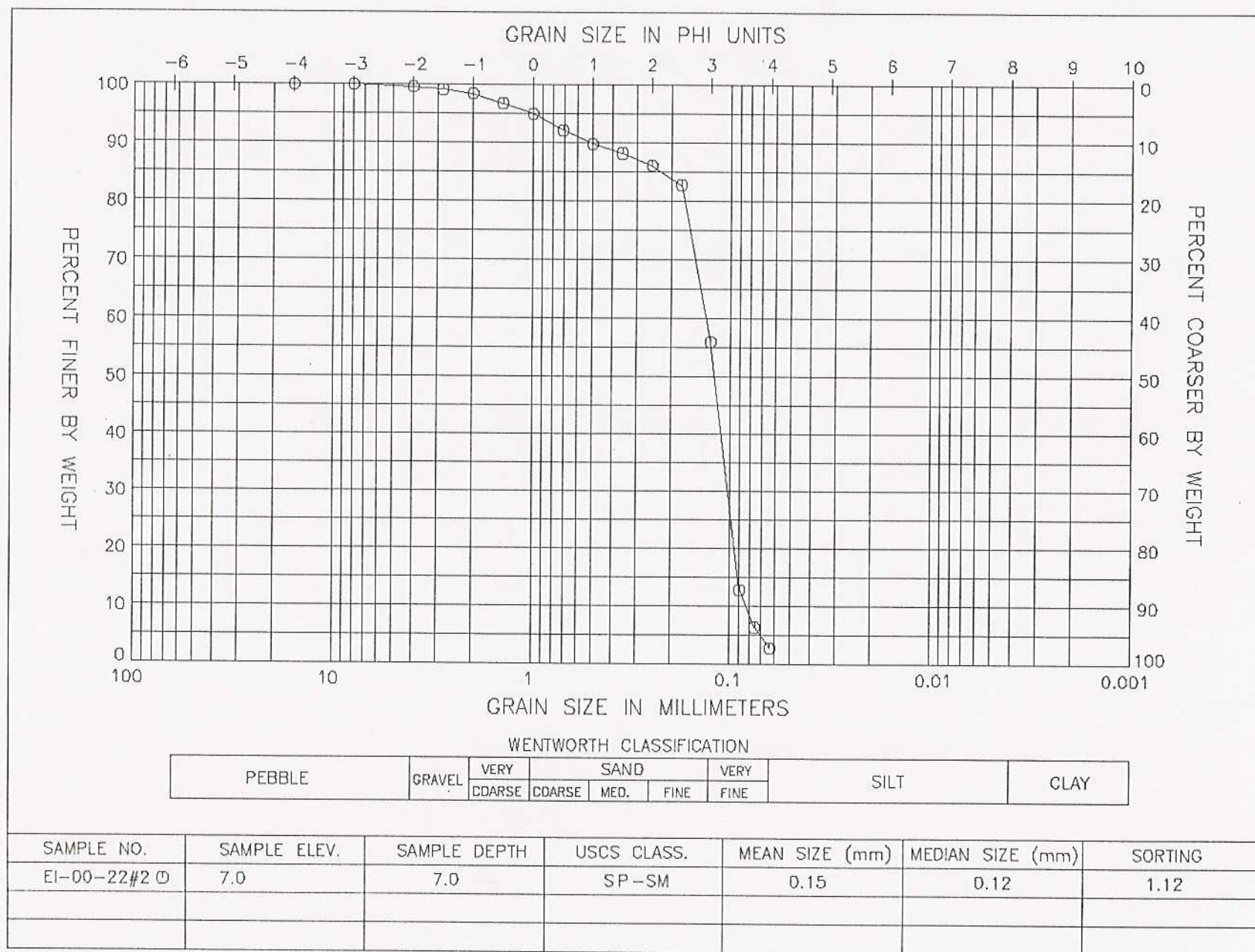


WENTWORTH CLASSIFICATION

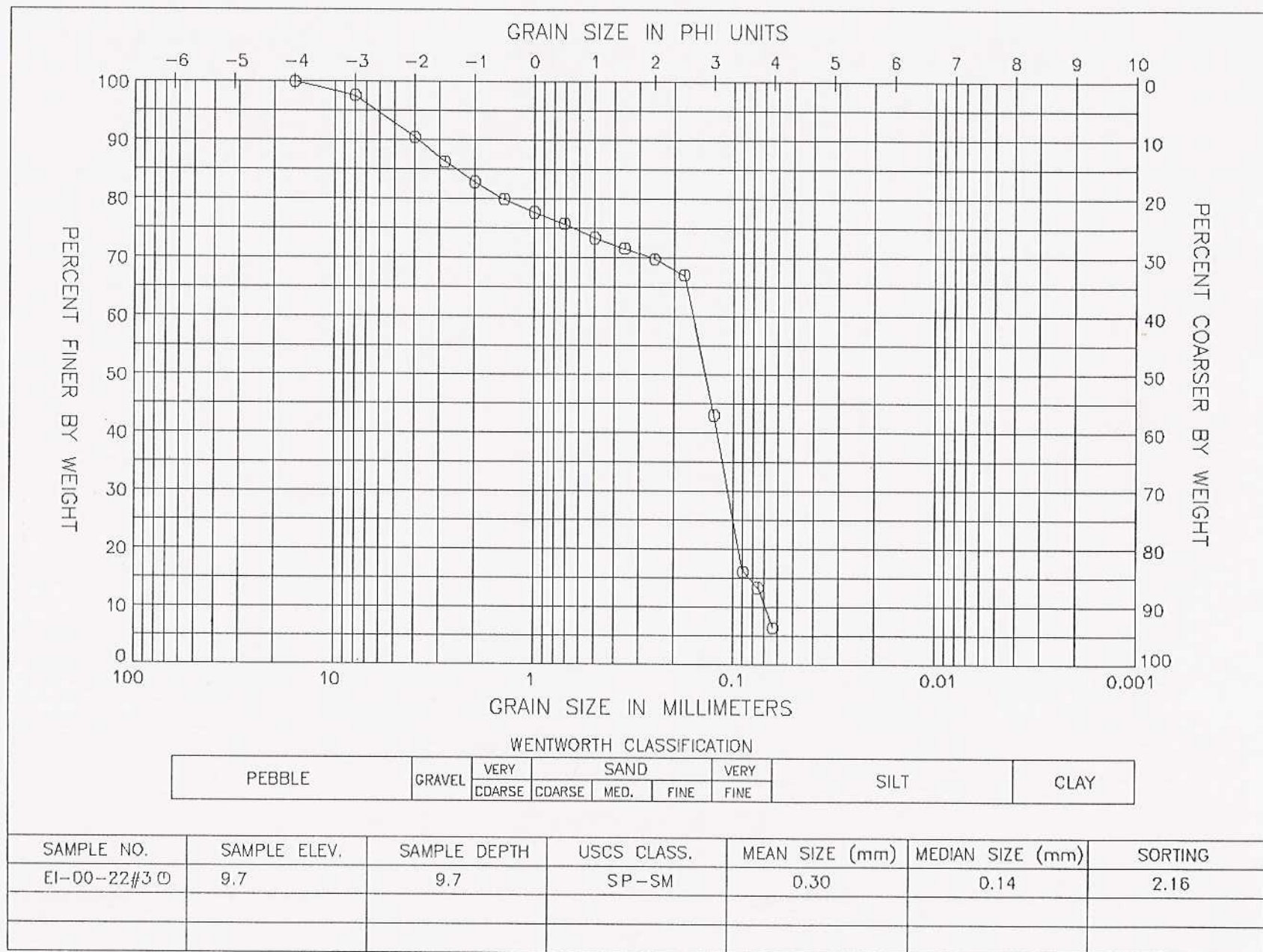
PEBBLE	GRAVEL	VERY	SAND		VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
EI-00-22#1 Ⓞ	2.5	2.5	SP	0.13	0.13	0.40

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000



ESTERO
VC - 00 # 22

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VC - 00 # 22

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VC - 00 # 22

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VC - 00 # 22



