

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"					
2. LOCATION (Coordinates or Station) X= 662287 Y= 765001		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD					
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE					
4. HOLE NO. (As shown on drawing title and file number) EI-00-26		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0.0 Undisturbed: 0.0					
5. NAME OF DRILLER MAURIZIO ROSSI		14. TOTAL NO. OF CORE BOXES					
6. DIRECTION OF HOLE VERTICAL		15. ELEVATION GROUND WATER					
7. THICKNESS OF BURDEN 0.0 FT		16. DATE HOLE Started Completed 8/16/00 1011					
8. DEPTH DRILLED INTO ROCK N/A		17. ELEVATION TOP OF HOLE -5.8 ft					
9. TOTAL DEPTH OF HOLE 19.63 ft		18. TOTAL CORE RECOVERY FOR BORING 65%					
		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-5.8	0					
	1					
	2					
	3		SAND, fine-grained, little shell hash/shell fragment, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 3.0' Mean (mm): 0.13, Phi Sorting: 0.35 Silt: 2.6%
	4					
	5					
	6					
-12.8	7		SAND, fine-grained, trace silt, little shell hash/shell fragments, Gray (5Y-6/1) (SP-SM)		2	Sample #2, Depth = 8.0' Mean (mm): 0.17, Phi Sorting: 1.58 Silt: 11.5%
-14.8	8					
	9				3	Sample #3, Depth = 9.5' Mean (mm): 0.34, Phi Sorting: 2.37 Silt: 18.8%
	10		SILTY SAND, fine grained, trace clay, some shell hash/shell fragments/whole shell, (SM)			
	11					
	12					
	13					
-19.6	14					
	15					
	16					
	17		NO RECOVERY			
	18					
	19					
-25.4	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.300 N 81 58.879 W
	22					
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-26#1

SAMPLE ELEV. (FT. NGVD): 3.0

SAMPLE DEPTH (FT.): 3.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.79

SAMPLE WEIGHT AFTER WASH (GRAMS): 97.49

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	0.05	0.05	99.95
10	-1.00	2.000	0.07	0.07	99.93
14	-0.50	1.400	0.14	0.14	99.86
18	0.00	1.000	0.16	0.16	99.84
25	0.50	0.710	0.24	0.24	99.76
35	1.00	0.500	0.32	0.32	99.68
45	1.50	0.355	0.43	0.43	99.57
60	2.00	0.250	0.64	0.64	99.36
80	2.50	0.180	1.71	1.71	98.29
120	3.00	0.125	64.88	65.02	34.98
170	3.50	0.090	95.55	95.75	4.25
200	3.75	0.075	97.21	97.41	2.59
230	4.00	0.063	98.63	98.84	1.16
PAN			99.79	100.00	0.00

PHI (5): 2.53

PHI (16): 2.61

PHI (25): 2.68

PHI (50): 2.88

PHI (75): 3.16

PHI (84): 3.31

PHI (95): 3.49

SIEVE LOSS (g): 0.00

SILT/CLAY: 2.59%

SKEWNESS: 0.361

KURTOSIS: 0.824

GRAPHIC METHOD

MEAN (PHI): 2.96

SORTING: 0.35

MEAN (mm): 0.13

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.92

SORTING: 0.35

MEAN (mm): 0.13

DATA FILE NAME: EI-00-26#1.TAB

GRADATION ANALYSIS REPORT
ESTERO VC 2000
TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-26#2
SAMPLE ELEV. (FT. NGVD): 8.0
SAMPLE DEPTH (FT.): 8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 88.90

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	2.49	2.49	97.51
5	-2.00	4.000	5.20	5.21	94.79
7	-1.50	2.800	5.88	5.89	94.11
10	-1.00	2.000	6.73	6.74	93.26
14	-0.50	1.400	7.47	7.48	92.52
18	0.00	1.000	8.08	8.10	91.90
25	0.50	0.710	8.53	8.55	91.45
35	1.00	0.500	8.97	8.99	91.01
45	1.50	0.355	9.40	9.42	90.58
60	2.00	0.250	9.92	9.94	90.06
80	2.50	0.180	11.29	11.31	88.69
120	3.00	0.125	52.76	52.86	47.14
170	3.50	0.090	85.35	85.51	14.49
200	3.75	0.075	88.35	88.52	11.48
230	4.00	0.063	94.29	94.47	5.53
PAN			99.79	99.98	0.02

PHI (5): -2.08 PHI (16): 2.56 PHI (25): 2.66
PHI (50): 2.97 PHI (75): 3.34 PHI (84): 3.48
PHI (95): 4.02

SIEVE LOSS(g): 0.02 SILT/CLAY: 11.48%
SKEWNESS: -4.331 KURTOSIS: 3.707

GRAPHIC METHOD

MEAN (PHI): 2.19 SORTING: 0.46
MEAN (mm): 0.22 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.55 SORTING: 1.58
MEAN (mm): 0.17

DATA FILE NAME: EI-00-26#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-26#3

SAMPLE ELEV. (FT. NGVD): 9.5

SAMPLE DEPTH (FT.): 9.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 97.92

SAMPLE WEIGHT AFTER WASH (GRAMS): 80.17

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	3.17	3.24	96.76
5	-2.00	4.000	11.70	11.95	88.05
7	-1.50	2.800	16.30	16.65	83.35
10	-1.00	2.000	19.97	20.39	79.61
14	-0.50	1.400	23.08	23.57	76.43
18	0.00	1.000	25.69	26.24	73.76
25	0.50	0.710	27.73	28.32	71.68
35	1.00	0.500	29.60	30.23	69.77
45	1.50	0.355	31.17	31.83	68.17
60	2.00	0.250	32.94	33.64	66.36
80	2.50	0.180	35.09	35.84	64.16
120	3.00	0.125	46.96	47.96	52.04
170	3.50	0.090	75.58	77.19	22.81
200	3.75	0.075	79.49	81.18	18.82
230	4.00	0.063	88.96	90.85	9.15
PAN			97.91	99.99	0.01

PHI (5): -2.80

PHI (16): -1.57

PHI (25): -0.23

PHI (50): 3.03

PHI (75): 3.46

PHI (84): 3.82

PHI (95): 4.11

SIEVE LOSS (g): 0.01

SILT/CLAY: 18.82%

SKEWNESS: -0.883

KURTOSIS: 0.766

GRAPHIC METHOD

MEAN (PHI): 1.32

SORTING: 2.70

MEAN (mm): 0.40

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

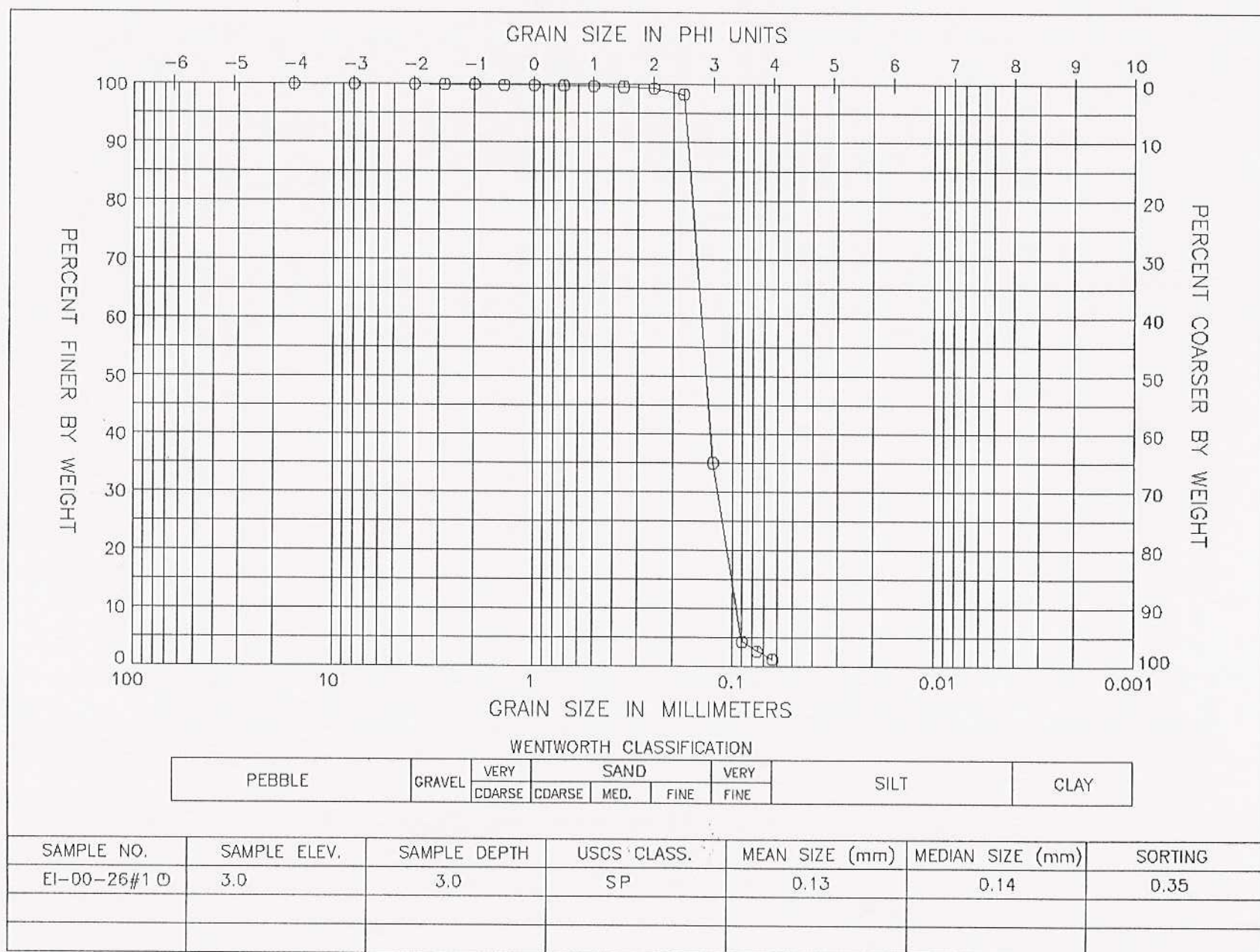
MEAN (PHI): 1.58

SORTING: 2.37

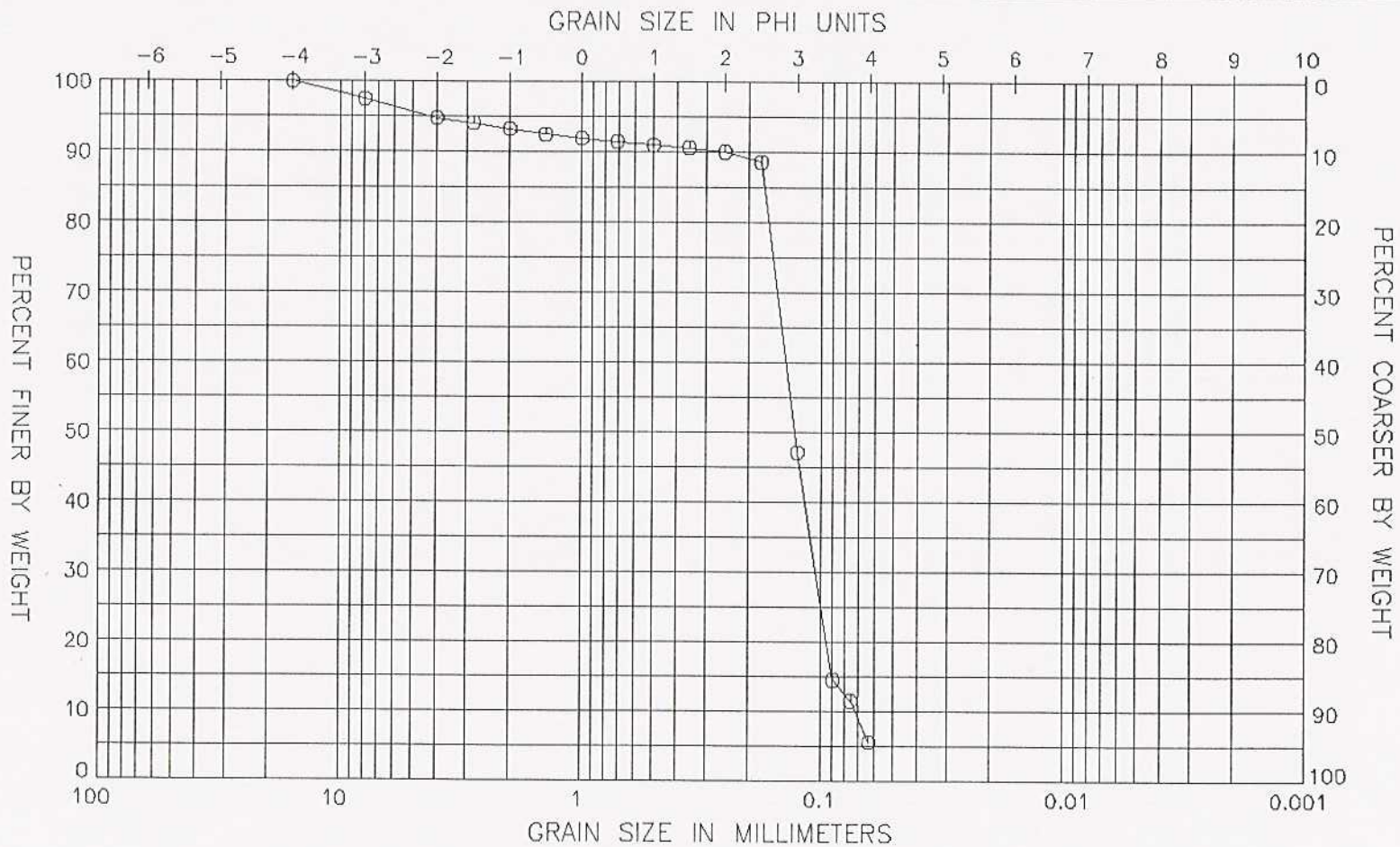
MEAN (mm): 0.34

DATA FILE NAME: EI-00-26#3.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000

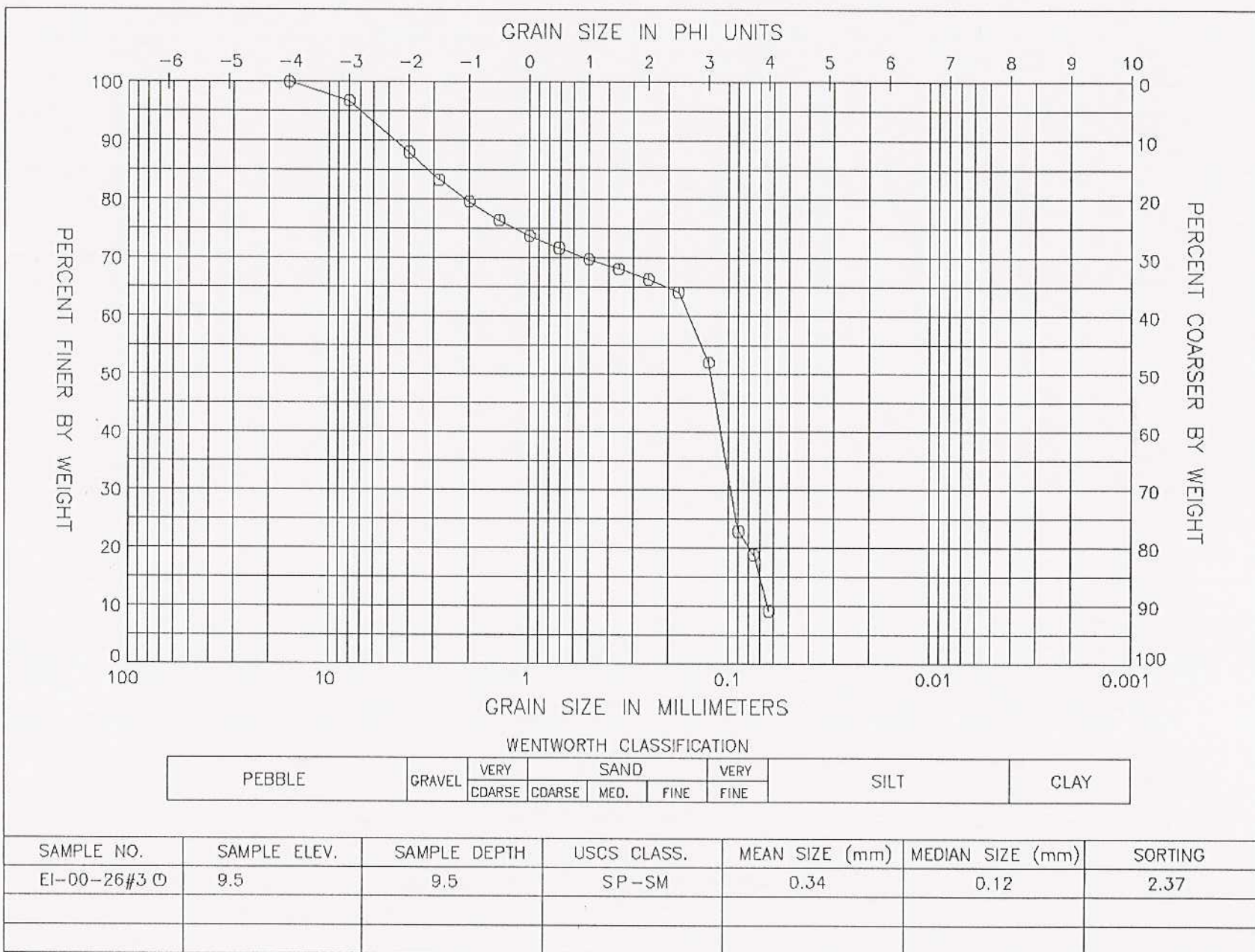


WENTWORTH CLASSIFICATION

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

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
EI-00-26#2 0	8.0	8.0	SP-SM	0.17	0.13	1.58

GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000





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VC - 00 # 26

