

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= 662394 Y= 763978		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-00-30a		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 1244	
8. DEPTH DRILLED INTO ROCK N/A			17. ELEVATION TOP OF HOLE -5.8 ft	
9. TOTAL DEPTH OF HOLE 18.75 ft			18. TOTAL CORE RECOVERY FOR BORING 59%	
			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, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 3.0' Mean (mm): 0.13, Phi Sorting: 0.31 Silt: 3.5%
	4					
	5					
-12	6					
	7		SAND, fine-grained, trace silt, 1" clay pocket @ -13.4', Gray (5Y-6/1) (SP-SM)		2	Sample #2, Depth = 7.0' Mean (mm): 0.12, Phi Sorting: 0.39 Silt: 11.7%
	8					
-14.7	9					
	10		SILTY SAND, fine-grained, trace clay, some shell hash/shell fragments, Gray (5Y-5/1) (SM)		3	Sample #3, Depth = 9.5' Mean (mm): 0.29, Phi Sorting: 1.77 Silt: 14.5%
	11					
-18.1	12					
	13					
	14					
	15		NO RECOVERY			
	16					
	17					
-24.5	18					
	19		End of Boring			
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.131 N 81 58.856 W
	22					
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: MC

ON: 9/00

SAMPLE NO.: EI-00-30A#1

SAMPLE ELEV. (FT. NGVD): 3.0

SAMPLE DEPTH (FT.): 3.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.60

SAMPLE WEIGHT AFTER WASH (GRAMS): 96.35

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	0.00	0.00	100.00
14	-0.50	1.400	0.04	0.04	99.96
18	0.00	1.000	0.07	0.07	99.93
25	0.50	0.710	0.12	0.12	99.88
35	1.00	0.500	0.17	0.17	99.83
45	1.50	0.355	0.23	0.23	99.77
60	2.00	0.250	0.37	0.37	99.63
80	2.50	0.180	1.14	1.14	98.86
120	3.00	0.125	65.17	65.43	34.57
170	3.50	0.090	94.67	95.05	4.95
200	3.75	0.075	96.13	96.52	3.48
230	4.00	0.063	97.93	98.33	1.67
PAN			99.58	99.98	0.02

PHI (5): 2.53

PHI (16): 2.62

PHI (25): 2.69

PHI (50): 2.88

PHI (75): 3.16

PHI (84): 3.31

PHI (95): 3.50

SIEVE LOSS (g): 0.02

SILT/CLAY: 3.48%

SKEWNESS: 0.386

KURTOSIS: 0.834

GRAPHIC METHOD

MEAN (PHI): 2.97

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: 0.31

MEAN (mm): 0.13

DATA FILE NAME: EI-00-30A#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: MC ON: 9/00

SAMPLE NO.: EI-00-30A#2
SAMPLE ELEV. (FT. NGVD): 7.0
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.68
SAMPLE WEIGHT AFTER WASH (GRAMS): 88.75

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	0.00	0.00	100.00
14	-0.50	1.400	0.03	0.03	99.97
18	0.00	1.000	0.08	0.08	99.92
25	0.50	0.710	0.19	0.19	99.81
35	1.00	0.500	0.32	0.32	99.68
45	1.50	0.355	0.44	0.44	99.56
60	2.00	0.250	0.71	0.71	99.29
80	2.50	0.180	1.48	1.48	98.52
120	3.00	0.125	52.04	52.21	47.79
170	3.50	0.090	85.50	85.77	14.23
200	3.75	0.075	88.00	88.28	11.72
230	4.00	0.063	94.01	94.32	5.68
PAN			99.66	99.98	0.02

PHI (5): 2.53 PHI (16): 2.64 PHI (25): 2.73
PHI (50): 2.98 PHI (75): 3.34 PHI (84): 3.47
PHI (95): 4.03

SIEVE LOSS (g): 0.02 SILT/CLAY: 11.72%
SKEWNESS: 0.730 KURTOSIS: 1.007

GRAPHIC METHOD

MEAN (PHI): 3.13 SORTING: 0.42
MEAN (mm): 0.11 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.01 SORTING: 0.39
MEAN (mm): 0.12

DATA FILE NAME: EI-00-30A#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: MC ON: 9/00

SAMPLE NO.: EI-00-30A#3
SAMPLE ELEV. (FT. NGVD): 9.5
SAMPLE DEPTH (FT.): 9.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 97.57
SAMPLE WEIGHT AFTER WASH (GRAMS): 84.02

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	2.73	2.80	97.20
7	-1.50	2.800	5.27	5.40	94.60
10	-1.00	2.000	8.29	8.50	91.50
14	-0.50	1.400	13.33	13.66	86.34
18	0.00	1.000	18.79	19.26	80.74
25	0.50	0.710	24.27	24.87	75.13
35	1.00	0.500	28.86	29.58	70.42
45	1.50	0.355	32.18	32.98	67.02
60	2.00	0.250	35.28	36.16	63.84
80	2.50	0.180	39.10	40.07	59.93
120	3.00	0.125	62.35	63.90	36.10
170	3.50	0.090	81.19	83.21	16.79
200	3.75	0.075	83.45	85.53	14.47
230	4.00	0.063	90.63	92.88	7.12
PAN			97.57	100.00	0.00

PHI (5): -1.58 PHI (16): -0.29 PHI (25): 0.51
PHI (50): 2.71 PHI (75): 3.29 PHI (84): 3.59
PHI (95): 4.07

SIEVE LOSS(g): 0.00 SILT/CLAY: 14.47%
SKEWNESS: -0.754 KURTOSIS: 0.835

GRAPHIC METHOD

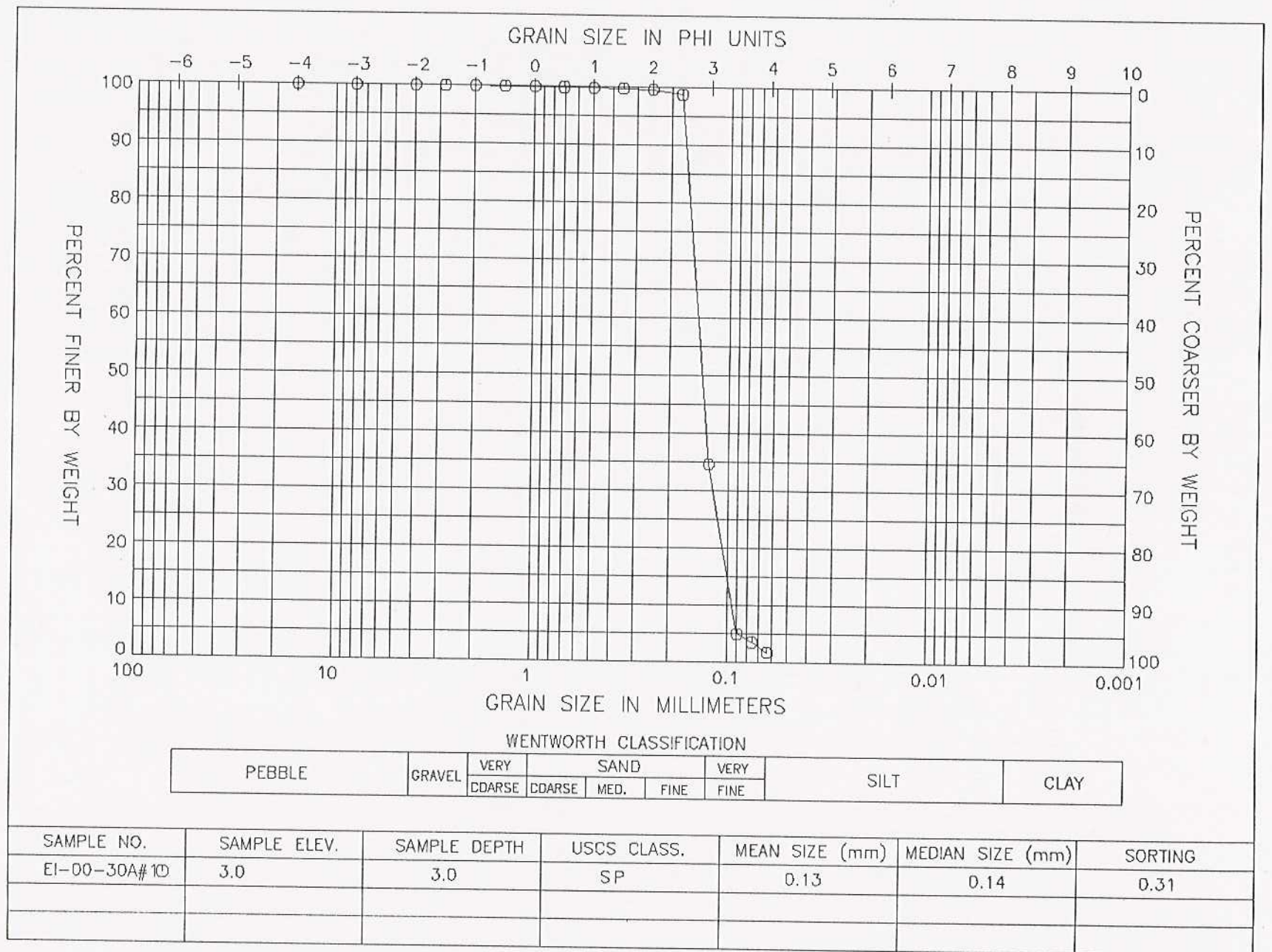
MEAN (PHI): 1.70 SORTING: 1.94
MEAN (mm): 0.31 MEDIAN (mm): 0.15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

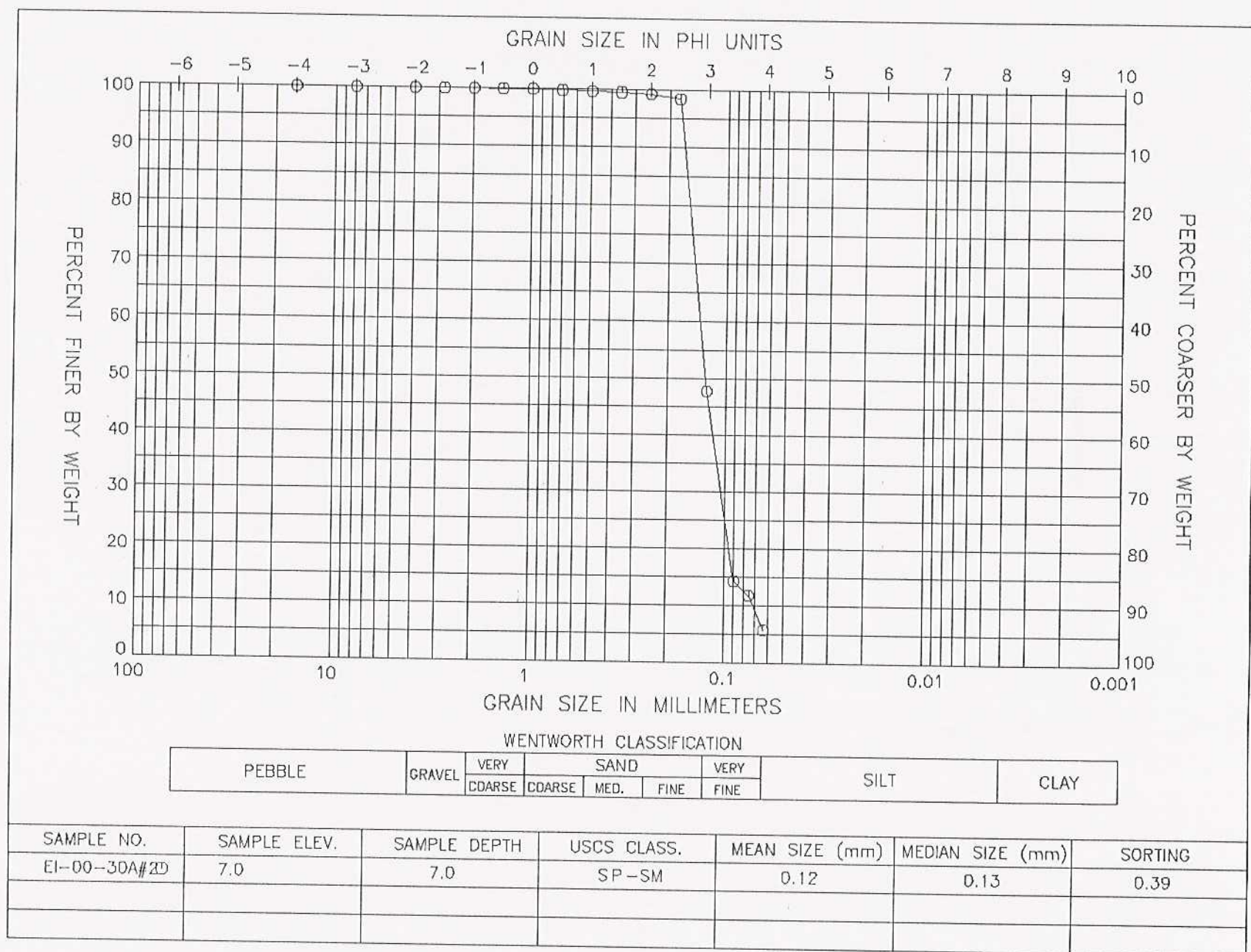
MEAN (PHI): 1.81 SORTING: 1.77
MEAN (mm): 0.29

DATA FILE NAME: EI-00-30A#3.TAB

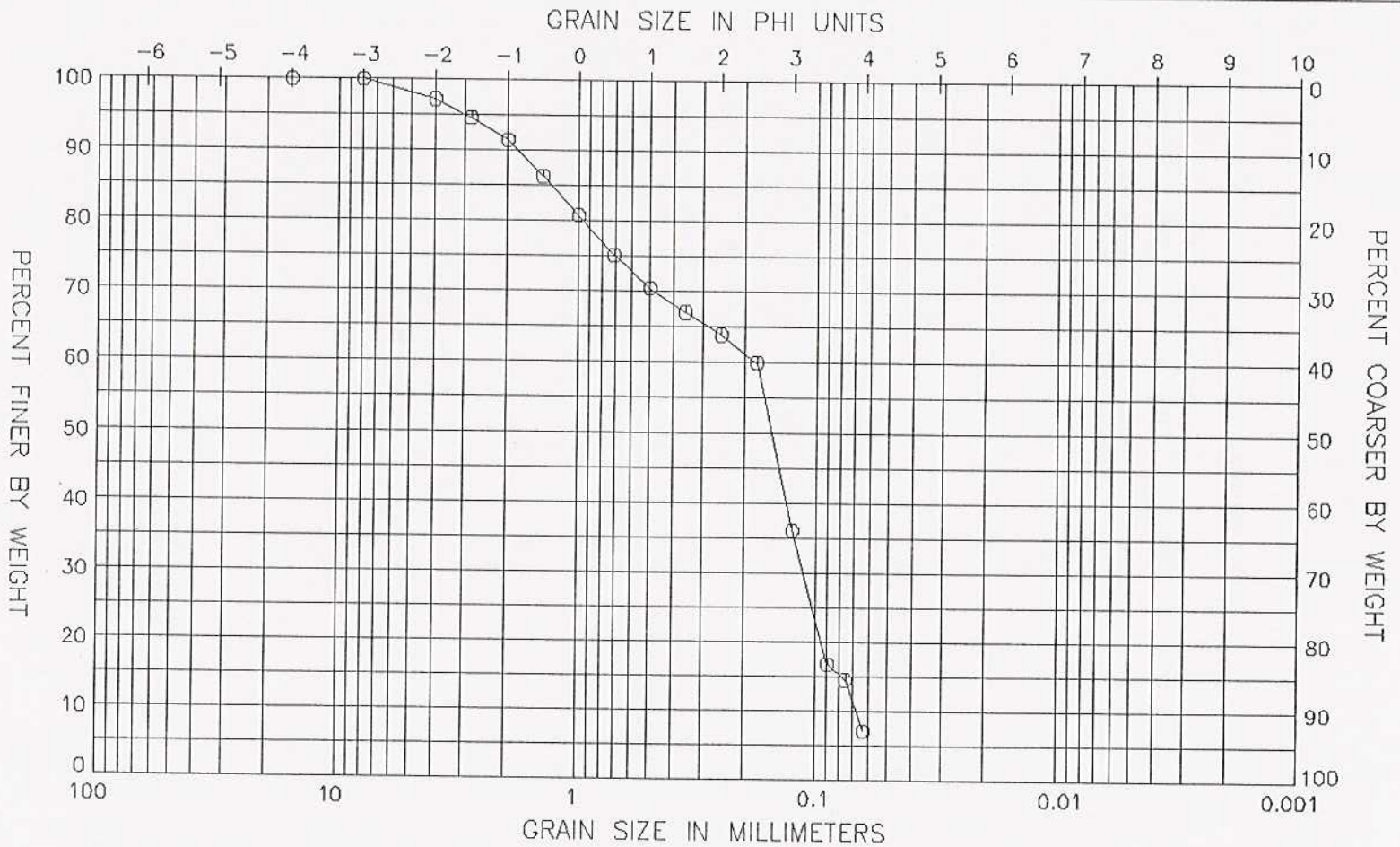
GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



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		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
EI-00-30A#3D	9.5	9.5	SP-SM	0.29	0.15	1.77

ESTERO
VC-00 #30A

ESTERO
VC-00 #30A

ESTERO
VC-00 #30A

ESTERO
VC-00 #30A



ESTERO
VC-00 #30A

