

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= 661242 Y= 764958		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-00-29		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 1517	
8. DEPTH DRILLED INTO ROCK		N/A		17. ELEVATION TOP OF HOLE		-6.5 ft	
9. TOTAL DEPTH OF HOLE		17.14 ft		18. TOTAL CORE RECOVERY FOR BORING		70%	
				19. SIGNATURE OF GEOLOGIST		SYED KHALIL	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-6.5	0					
	1					
	2					
	3		SAND, fine-grained, trace shell hash/shell fragments, Gray (5Y-6/1) (SP-SM)		1	Sample #1, Depth = 3.5' Mean (mm): 0.14, Phi Sorting: 0.74 Silt: 5.1%
	4					
	5					
	6					
-13.2	7		SILTY SAND, fine-grained, Gray (5Y-5/1) (SM)		2	Sample #2, Depth = 7.5' Mean (mm): 0.13, Phi Sorting: 0.82 Silt: 15.3%
-14.2	8				3	Sample #3, Depth = 8.5' Mean (mm): 0.17, Phi Sorting: 1.86 Silt: 26.6%
	9		fine-grained, trace clay, some shell hash/shell fragments, Gray (5Y-5/1) (SM) from -14.2 to -18.8'			
	10					
	11					
-18.8	12					
	13					
	14					
	15		NO RECOVERY			
	16					
-23.6	17					
	18		End of Boring			
	19					
	20					
	21					
	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.296 N 81 59.069 W
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-29#1
SAMPLE ELEV. (FT. NGVD): 3.5
SAMPLE DEPTH (FT.): 3.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.19
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.34

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	0.14	0.14	99.86
10	-1.00	2.000	0.41	0.41	99.59
14	-0.50	1.400	1.14	1.15	98.85
18	0.00	1.000	2.08	2.10	97.90
25	0.50	0.710	3.07	3.10	96.90
35	1.00	0.500	4.06	4.09	95.91
45	1.50	0.355	4.81	4.85	95.15
60	2.00	0.250	5.73	5.78	94.22
80	2.50	0.180	8.62	8.69	91.31
120	3.00	0.125	51.55	51.97	48.03
170	3.50	0.090	91.48	92.23	7.77
200	3.75	0.075	94.11	94.88	5.12
230	4.00	0.063	96.75	97.54	2.46
PAN			99.18	99.99	0.01

PHI (5): 1.58 PHI (16): 2.58 PHI (25): 2.69
PHI (50): 2.98 PHI (75): 3.29 PHI (84): 3.40
PHI (95): 3.76

SIEVE LOSS (g): 0.01 SILT/CLAY: 5.12%
SKEWNESS: -0.752 KURTOSIS: 1.495

GRAPHIC METHOD

MEAN (PHI): 2.86 SORTING: 0.41
MEAN (mm): 0.14 MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.86 SORTING: 0.74
MEAN (mm): 0.14

DATA FILE NAME: EI-00-29#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-29#2

SAMPLE ELEV. (FT. NGVD): 7.5

SAMPLE DEPTH (FT.): 7.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 98.63

SAMPLE WEIGHT AFTER WASH (GRAMS): 84.15

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	0.05	0.05	99.95
7	-1.50	2.800	0.42	0.43	99.57
10	-1.00	2.000	0.68	0.69	99.31
14	-0.50	1.400	1.21	1.23	98.77
18	0.00	1.000	1.97	2.00	98.00
25	0.50	0.710	2.95	2.99	97.01
35	1.00	0.500	4.27	4.33	95.67
45	1.50	0.355	5.34	5.41	94.59
60	2.00	0.250	6.41	6.50	93.50
80	2.50	0.180	8.33	8.45	91.55
120	3.00	0.125	41.18	41.75	58.25
170	3.50	0.090	79.39	80.49	19.51
200	3.75	0.075	83.56	84.72	15.28
230	4.00	0.063	91.34	92.61	7.39
PAN			98.62	99.99	0.01

PHI (5): 1.31

PHI (16): 2.61

PHI (25): 2.75

PHI (50): 3.11

PHI (75): 3.43

PHI (84): 3.71

PHI (95): 4.08

SIEVE LOSS (g): 0.01

SILT/CLAY: 15.28%

SKEWNESS: -0.757

KURTOSIS: 1.666

GRAPHIC METHOD

MEAN (PHI): 2.96

SORTING: 0.55

MEAN (mm): 0.13

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.92

SORTING: 0.82

MEAN (mm): 0.13

DATA FILE NAME: EI-00-29#2.TAB

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

SAMPLE NO.: EI-00-29#3
SAMPLE ELEV. (FT. NGVD): 8.5
SAMPLE DEPTH (FT.): 8.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 87.96
SAMPLE WEIGHT AFTER WASH (GRAMS): 66.28

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	3.88	4.41	95.59
5	-2.00	4.000	4.59	5.22	94.78
7	-1.50	2.800	5.55	6.31	93.69
10	-1.00	2.000	6.49	7.38	92.62
14	-0.50	1.400	7.48	8.50	91.50
18	0.00	1.000	8.42	9.57	90.43
25	0.50	0.710	9.31	10.58	89.42
35	1.00	0.500	10.32	11.73	88.27
45	1.50	0.355	11.31	12.86	87.14
60	2.00	0.250	12.72	14.46	85.54
80	2.50	0.180	15.36	17.46	82.54
120	3.00	0.125	27.29	31.03	68.97
170	3.50	0.090	58.06	66.01	33.99
200	3.75	0.075	64.55	73.39	26.61
230	4.00	0.063	76.55	87.03	12.97
PAN			87.94	99.98	0.02

PHI (5): -2.27 PHI (16): 2.26 PHI (25): 2.78
PHI (50): 3.27 PHI (75): 3.78 PHI (84): 3.94
PHI (95): 4.15

SIEVE LOSS (g): 0.02 SILT/CLAY: 26.61%
SKEWNESS: -2.764 KURTOSIS: 2.625

GRAPHIC METHOD

MEAN (PHI): 2.27 SORTING: 0.84
MEAN (mm): 0.21 MEDIAN (mm): 0.10

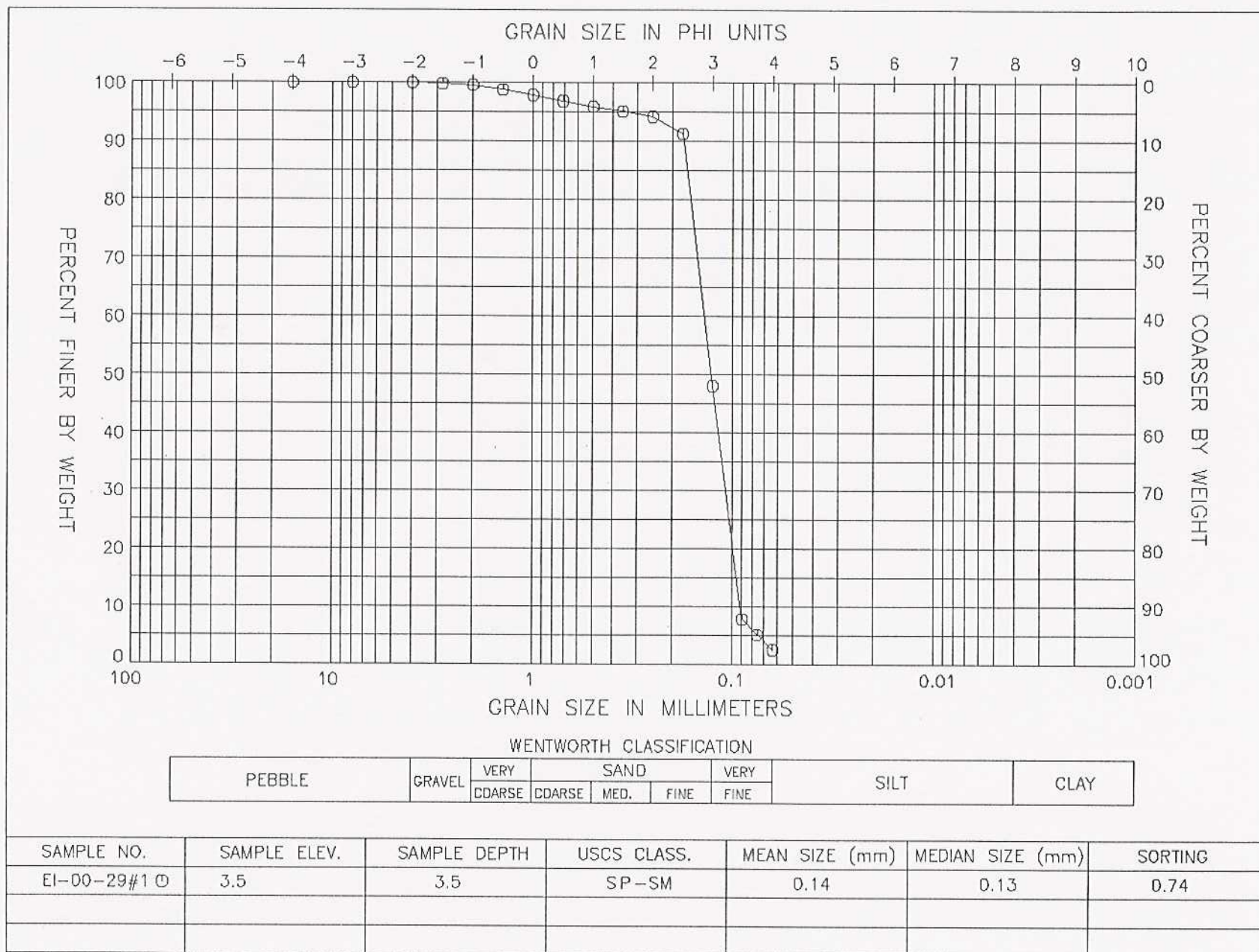
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

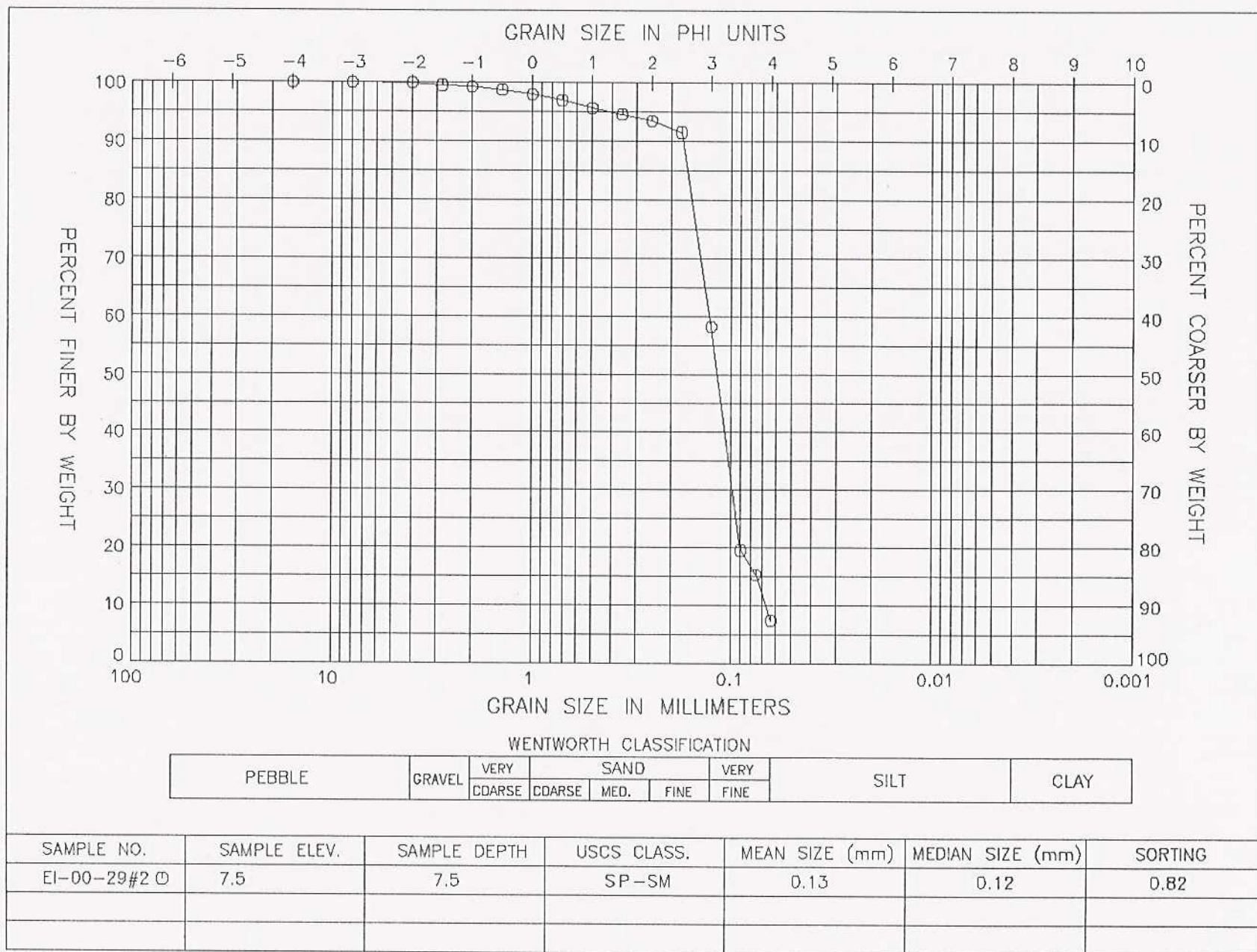
MEAN (PHI): 2.54 SORTING: 1.86
MEAN (mm): 0.17

DATA FILE NAME: EI-00-29#3.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000

