

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= 662797 Y= 766623		11. DATUM FOR ELEVATION SHOWN <sup>(TBM or MSL)</sup>		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-00-17		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 8/6/00 1654	
8. DEPTH DRILLED INTO ROCK		N/A		17. ELEVATION TOP OF HOLE		-9.3 ft	
9. TOTAL DEPTH OF HOLE		19.96 ft		18. TOTAL CORE RECOVERY FOR BORING		68%	
				19. SIGNATURE OF GEOLOGIST		SYED KHALIL	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-9.3	0					
-11	1		SAND, fine-grained, some shell hash/shell fragments, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 1.0' Mean (mm): 0.22, Phi Sorting: 1.51 Silt: 3.9%
-13	2		fine-grained, trace shell hash/shell fragments, Light gray (5Y-7/1) (SP)		2	Sample #2, Depth = 3.0' Mean (mm): 0.15, Phi Sorting: 0.73 Silt: 4.2%
-19.6	4		SILT, some clay, some shell hash/shell fragments & whole shell up to 0.5", Gray (5Y-5/1) (ML)			
-22.6	11		CARBONATE CLASTS, cobbles/pebbles/gravels to fines, hard and compact, White (5Y-8/1) (GP)			
-23.4	13		SAND, fine-grained, trace carbonate pebbles 2", Gray (5Y-6/1) (SP)	68%		
-29.3	15		NO RECOVERY			
	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG  26 26.566 N 81 58.785 W
	22					
	23					
	24					

## GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-17#1

SAMPLE ELEV. (FT. NGVD): 1.0

SAMPLE DEPTH (FT.): 1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 76.98

SAMPLE WEIGHT AFTER WASH (GRAMS): 74.19

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	0.79	1.03	98.97
5	-2.00	4.000	3.56	4.62	95.38
7	-1.50	2.800	4.64	6.03	93.97
10	-1.00	2.000	5.63	7.31	92.69
14	-0.50	1.400	6.58	8.55	91.45
18	0.00	1.000	7.60	9.87	90.13
25	0.50	0.710	8.93	11.60	88.40
35	1.00	0.500	10.65	13.83	86.17
45	1.50	0.355	12.23	15.89	84.11
60	2.00	0.250	14.36	18.65	81.35
80	2.50	0.180	21.95	28.51	71.49
120	3.00	0.125	59.47	77.25	22.75
170	3.50	0.090	72.88	94.67	5.33
200	3.75	0.075	73.96	96.08	3.92
230	4.00	0.063	75.48	98.04	1.96
PAN			76.96	99.97	0.03

PHI (5): -1.87

PHI (16): 1.52

PHI (25): 2.32

PHI (50): 2.72

PHI (75): 2.98

PHI (84): 3.19

PHI (95): 3.56

SIEVE LOSS (g): 0.02

SILT/CLAY: 3.92%

SKEWNESS: -2.241

KURTOSIS: 3.394

## GRAPHIC METHOD

MEAN (PHI): 1.83

SORTING: 0.84

MEAN (mm): 0.28

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.21

SORTING: 1.51

MEAN (mm): 0.22

DATA FILE NAME: EI-00-17#1.TAB

## GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-17#2  
SAMPLE ELEV. (FT. NGVD): 3.0  
SAMPLE DEPTH (FT.): 3.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.04  
SAMPLE WEIGHT AFTER WASH (GRAMS): 92.30

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	0.48	0.50	99.50
7	-1.50	2.800	0.64	0.67	99.33
10	-1.00	2.000	0.98	1.02	98.98
14	-0.50	1.400	1.21	1.26	98.74
18	0.00	1.000	1.52	1.58	98.42
25	0.50	0.710	2.12	2.21	97.79
35	1.00	0.500	2.96	3.08	96.92
45	1.50	0.355	3.87	4.03	95.97
60	2.00	0.250	5.57	5.80	94.20
80	2.50	0.180	11.64	12.12	87.88
120	3.00	0.125	64.99	67.67	32.33
170	3.50	0.090	90.11	93.83	6.17
200	3.75	0.075	91.97	95.76	4.24
230	4.00	0.063	94.16	98.04	1.96
PAN			96.04	100.00	0.00

PHI (5): 1.77 PHI (16): 2.53 PHI (25): 2.62  
PHI (50): 2.84 PHI (75): 3.14 PHI (84): 3.31  
PHI (95): 3.65

SIEVE LOSS (g): 0.00 SILT/CLAY: 4.24%  
SKEWNESS: -0.330 KURTOSIS: 1.468

## GRAPHIC METHOD

MEAN (PHI): 2.82 SORTING: 0.39  
MEAN (mm): 0.14 MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

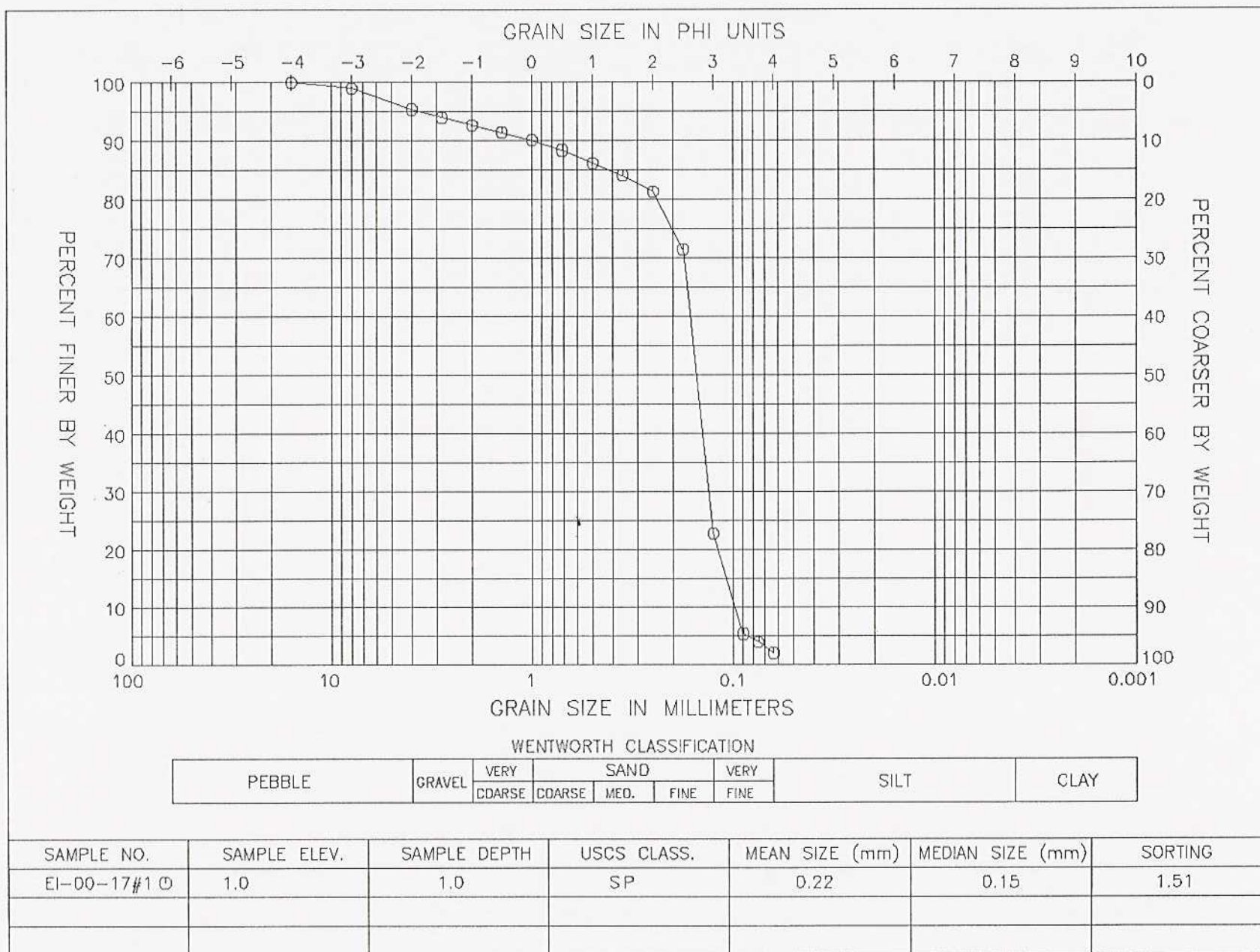
## MOMENT METHOD

MEAN (PHI): 2.76 SORTING: 0.73  
MEAN (mm): 0.15

DATA FILE NAME: EI-00-17#2.TAB



GRAIN SIZE DISTRIBUTION CURVE  
ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE  
ESTERO VC 2000

