

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= 685189 Y= 751436		11. DATUM FOR ELEVATION SHOW (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-00-04		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 8/5/00 1317			
8. DEPTH DRILLED INTO ROCK N/A				17. ELEVATION TOP OF HOLE -10.2 ft			
9. TOTAL DEPTH OF HOLE 19.9 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
-10.2	0		SAND, fine-grained, little shell hash/shell fragments, Light gray (5Y-7/1) (SP)			
	1		fine-grained, trace shell hash/shell fragments, Light gray (5Y-7/1) (SP) from -10.3' to -12.0'		1	Sample #1, Depth = 1' Mean (mm): 0.15, Phi Sorting: 0.62 Silt: 3.0%
-12.3	2		fine-grained, trace shell hash/shell fragments, trace silt, Gray (5Y-6/1) (SP) from -12.0' to -13.4'			
-13.7	3					
	4		SILTY SAND, fine-grained, trace shell hash/shell fragments, Light gray (5Y-7/1) (SM)		2	Sample #2, Depth = 4.0' Mean (mm): 0.12, Phi Sorting: 0.62 Silt: 13.2%
-15.2	5					
	6					
	7					
	8		SILT, some clay, some shell fragments/shell hash/whole shell, Gray (5Y-5/1) (ML)			
	9					
	10					
-21.4	11					
	12		CARBONATE CLASTS, cobble to pebble size with calcareous/carbonate fines (GP)			
-23.8	13					
	14					
	15					
	16					
	17		NO RECOVERY			
	18					
	19					
-30.1	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.479 N 81 58.259 W
	22					
	23					
	24					

PROJECT: Estero Beach Restoration	HOLE NUMBER:
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GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-04#1

SAMPLE ELEV. (FT. NGVD): 1.0

SAMPLE DEPTH (FT.): 1.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.13

SAMPLE WEIGHT AFTER WASH (GRAMS): 95.51

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	0.10	0.10	99.90
7	-1.50	2.800	0.27	0.28	99.72
10	-1.00	2.000	0.64	0.65	99.35
14	-0.50	1.400	1.03	1.05	98.95
18	0.00	1.000	1.41	1.44	98.56
25	0.50	0.710	1.91	1.95	98.05
35	1.00	0.500	2.45	2.50	97.50
45	1.50	0.355	3.05	3.11	96.89
60	2.00	0.250	4.20	4.28	95.72
80	2.50	0.180	12.65	12.89	87.11
120	3.00	0.125	74.13	75.54	24.46
170	3.50	0.090	94.54	96.34	3.66
200	3.75	0.075	95.23	97.04	2.96
230	4.00	0.063	96.73	98.57	1.43
PAN			98.11	99.98	0.02

PHI (5): 2.04

PHI (16): 2.52

PHI (25): 2.60

PHI (50): 2.80

PHI (75): 3.00

PHI (84): 3.20

PHI (95): 3.47

SIEVE LOSS (g): 0.02

SILT/CLAY: 2.96%

SKEWNESS: -0.122

KURTOSIS: 1.465

GRAPHIC METHOD

MEAN (PHI): 2.81

SORTING: 0.34

MEAN (mm): 0.14

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.74

SORTING: 0.62

MEAN (mm): 0.15

DATA FILE NAME: EI-00-04#1.TAB

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

SAMPLE NO.: EI-00-04#2
SAMPLE ELEV. (FT. NGVD): 4.0
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.51
SAMPLE WEIGHT AFTER WASH (GRAMS): 91.55

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	0.15	0.15	99.85
7	-1.50	2.800	0.36	0.36	99.64
10	-1.00	2.000	0.66	0.66	99.34
14	-0.50	1.400	0.89	0.89	99.11
18	0.00	1.000	1.07	1.08	98.92
25	0.50	0.710	1.27	1.28	98.72
35	1.00	0.500	1.46	1.47	98.53
45	1.50	0.355	1.65	1.66	98.34
60	2.00	0.250	2.05	2.06	97.94
80	2.50	0.180	3.57	3.59	96.41
120	3.00	0.125	42.25	42.46	57.54
170	3.50	0.090	86.18	86.60	13.40
200	3.75	0.075	86.38	86.81	13.19
230	4.00	0.063	95.34	95.81	4.19
PAN			99.50	99.99	0.01

PHI (5): 2.52 PHI (16): 2.66 PHI (25): 2.78
PHI (50): 3.09 PHI (75): 3.37 PHI (84): 3.47
PHI (95): 3.98

SIEVE LOSS (g): 0.01 SILT/CLAY: 13.19%
SKEWNESS: 0.401 KURTOSIS: 1.008

GRAPHIC METHOD

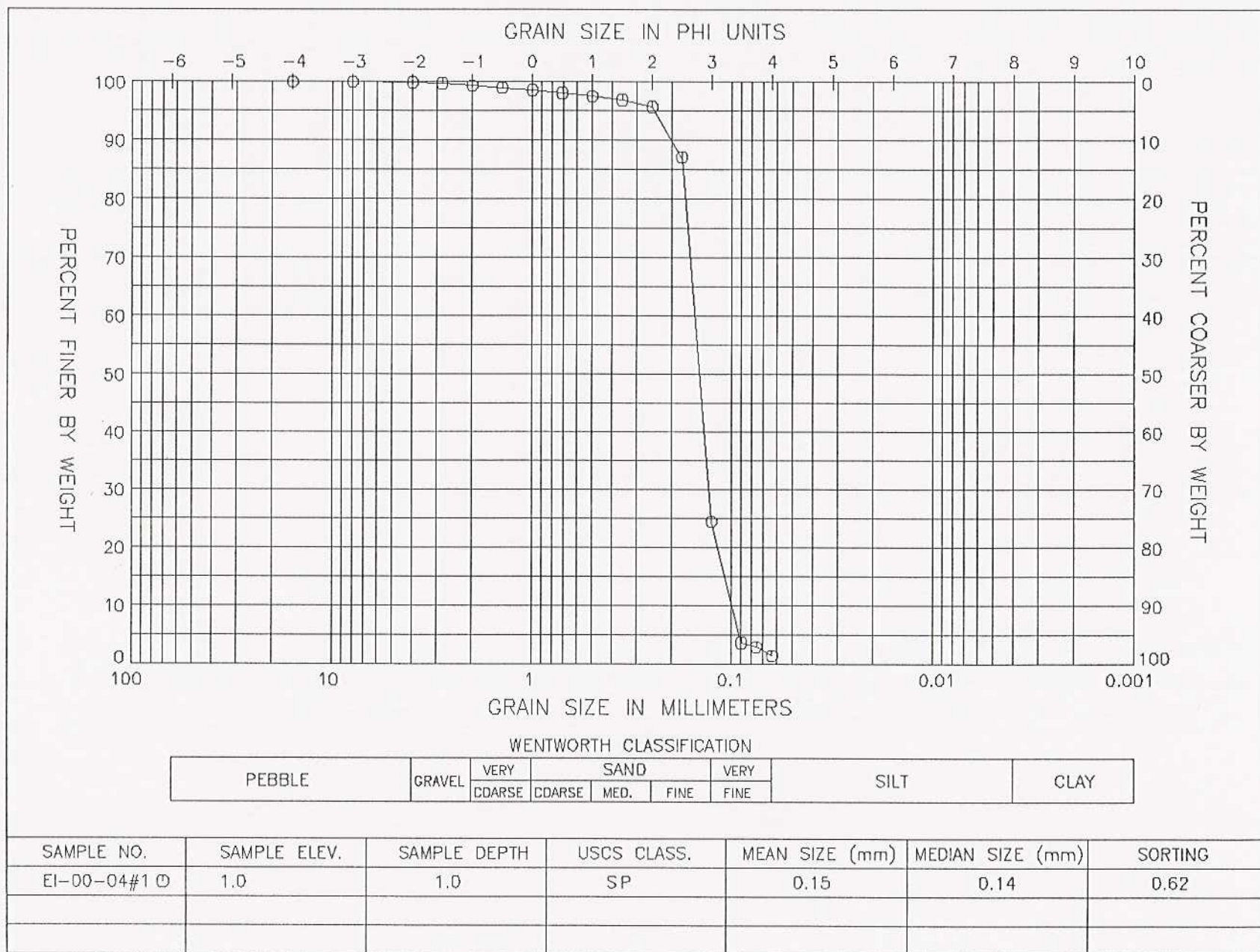
MEAN (PHI): 3.14 SORTING: 0.41
MEAN (mm): 0.11 MEDIAN (mm): 0.12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.02 SORTING: 0.62
MEAN (mm): 0.12

DATA FILE NAME: EI-00-04#2.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000

