

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= 661151 Y= 765917		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-00-27a		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 0937	
8. DEPTH DRILLED INTO ROCK	N/A		17. ELEVATION TOP OF HOLE -6.5 ft	
9. TOTAL DEPTH OF HOLE	19.5 ft		18. TOTAL CORE RECOVERY FOR BORING 82%	
			19. SIGNATURE OF GEOLOGIST SYED KHALIL	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-6.5	0					
	1					
	2					
	3					
	4		JET PROBED			
	5					
	6					
-14	7					
-15.2	8		SAND, fine-grained, trace silt, some shell hash/shell fragments, Gray (5Y-5/1) (SP-SM)		1	Sample #1, Depth = 8.0' Mean (mm): 0.16, Phi Sorting: 1.13 Silt: 11.9%
	9					
	10					
	11		SILTY SAND, fine-grained, trace clay, some shell hash/shell fragments, Dark gray (5Y-4/1) (SM)		2	Sample #2, Depth = 11.0' Mean (mm): 0.23, Phi Sorting: 2.13 Silt: 34.3%
	12					
	13					
-21.2	14					
-22.7	15		SILTY CLAY, very soft, Dark gray (5Y-4/1) (ML-CL)			
	16					
-24	17		SILTY CLAY, soft, little shell fragments/whole shell up to 1", limestone cobble @ -22.8', Dark gray (5Y-4/1) (ML-CL)			
	18					
	19		NO RECOVERY			
-26	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.451 N 81 59.088 W
	22					
	23					
	24					

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

SAMPLE NO.: EI-00-27A#1
SAMPLE ELEV. (FT. NGVD): 8.0
SAMPLE DEPTH (FT.): 8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 96.51
SAMPLE WEIGHT AFTER WASH (GRAMS): 85.44

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	0.30	0.31	99.69
7	-1.50	2.800	1.14	1.18	98.82
10	-1.00	2.000	2.16	2.24	97.76
14	-0.50	1.400	3.64	3.77	96.23
18	0.00	1.000	5.45	5.65	94.35
25	0.50	0.710	7.30	7.56	92.44
35	1.00	0.500	8.94	9.26	90.74
45	1.50	0.355	10.29	10.66	89.34
60	2.00	0.250	11.75	12.17	87.83
80	2.50	0.180	14.21	14.72	85.28
120	3.00	0.125	48.55	50.31	49.69
170	3.50	0.090	81.70	84.65	15.35
200	3.75	0.075	85.06	88.14	11.86
230	4.00	0.063	90.91	94.20	5.80
PAN			96.51	100.00	0.00

PHI (5): -0.17 PHI (16): 2.52 PHI (25): 2.64
PHI (50): 3.00 PHI (75): 3.36 PHI (84): 3.49
PHI (95): 4.03

SIEVE LOSS (g): 0.00 SILT/CLAY: 11.86%
SKEWNESS: -2.191 KURTOSIS: 2.410

GRAPHIC METHOD

MEAN (PHI): 2.57 SORTING: 0.49
MEAN (mm): 0.17 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.68 SORTING: 1.13
MEAN (mm): 0.16

DATA FILE NAME: EI-00-27A#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-27A#2
SAMPLE ELEV. (FT. NGVD): 11.0
SAMPLE DEPTH (FT.): 11.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 97.63
SAMPLE WEIGHT AFTER WASH (GRAMS): 65.31

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	2.66	2.72	97.28
5	-2.00	4.000	6.01	6.16	93.84
7	-1.50	2.800	8.46	8.67	91.33
10	-1.00	2.000	11.04	11.31	88.69
14	-0.50	1.400	13.91	14.25	85.75
18	0.00	1.000	16.02	16.41	83.59
25	0.50	0.710	17.84	18.27	81.73
35	1.00	0.500	19.56	20.03	79.97
45	1.50	0.355	21.10	21.61	78.39
60	2.00	0.250	23.10	23.66	76.34
80	2.50	0.180	25.66	26.28	73.72
120	3.00	0.125	34.97	35.82	64.18
170	3.50	0.090	58.79	60.22	39.78
200	3.75	0.075	64.12	65.68	34.32
230	4.00	0.063	81.26	83.23	16.77
PAN			97.61	99.98	0.02

PHI (5): -2.34 PHI (16): -0.09 PHI (25): 2.26
PHI (50): 3.29 PHI (75): 3.88 PHI (84): 4.01
PHI (95): 4.17

SIEVE LOSS(g): 0.02 SILT/CLAY: 34.32%
SKEWNESS: -1.157 KURTOSIS: 1.638

GRAPHIC METHOD

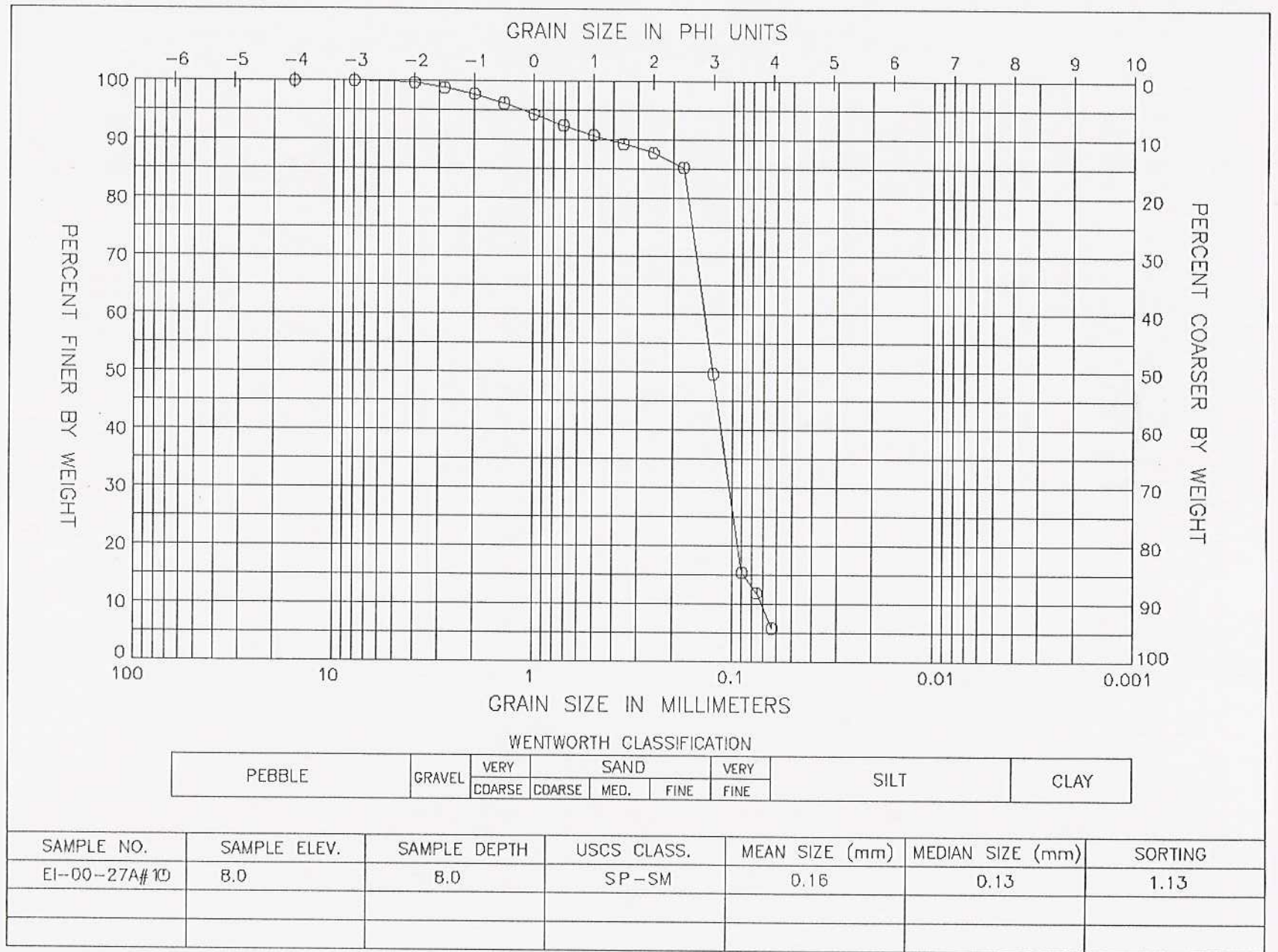
MEAN (PHI): 1.81 SORTING: 2.05
MEAN (mm): 0.29 MEDIAN (mm): 0.10
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.14 SORTING: 2.13
MEAN (mm): 0.23

DATA FILE NAME: EI-00-27A#2.TAB

GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000

