

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= 663170 Y= 764764		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-00-20		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 8/15/00 1100					
8. DEPTH DRILLED INTO ROCK N/A		17. ELEVATION TOP OF HOLE -4.9 ft					
9. TOTAL DEPTH OF HOLE 19.41 ft		18. TOTAL CORE RECOVERY FOR BORING 77%					
		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-4.9	0					
	1					
	2					
	3		SAND, fine-grained, little shell hash/shell fragments, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 2.5' Mean (mm): 0.18, Phi Sorting: 1.38 Silt: 2.2%
	4					
-9.9	5					
	6					
	7		fine-grained, trace shell hash/shell fragments, Light gray (5Y-7/1) (SP) from -11.0' to -15.8'		2	Sample #2, Depth = 8.0' Mean (mm): 0.13, Phi Sorting: 0.43 Silt: 3.0%
	8					
	9					
-14.7	10					
-15.4	11		SAND, fine-grained, trace silt, some shell hash/shell fragments, (mix zone), Gray (5Y-5/1) (SP-SM)		3	Sample #3, Depth = 10.0' Mean (mm): 0.21, Phi Sorting: 1.52 Silt: 9.5%
	12					
	13		SILTY SAND, little clay, some shell hash/shell fragments & whole shell, two 4" clams @ -16.5', Gray (5Y-5/1) (SM)			
	14					
-19.2	15		CARBONATE CLASTS, rubble/gravel with fines, Gray (5Y-5/1) (GP)			
-19.7	16					
	17		NO RECOVERY			
	18					
	19					
-24.3	20		End of Boring			
	21					
	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.263 N 81 58.718 W
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-20#1
SAMPLE ELEV. (FT. NGVD): 2.5
SAMPLE DEPTH (FT.): 2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 90.01
SAMPLE WEIGHT AFTER WASH (GRAMS): 88.27

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	1.05	1.17	98.83
5	-2.00	4.000	3.38	3.76	96.24
7	-1.50	2.800	3.95	4.39	95.61
10	-1.00	2.000	4.60	5.11	94.89
14	-0.50	1.400	5.60	6.22	93.78
18	0.00	1.000	6.76	7.51	92.49
25	0.50	0.710	7.95	8.83	91.17
35	1.00	0.500	9.16	10.18	89.82
45	1.50	0.355	10.08	11.20	88.80
60	2.00	0.250	11.07	12.30	87.70
80	2.50	0.180	13.97	15.52	84.48
120	3.00	0.125	57.71	64.12	35.88
170	3.50	0.090	86.51	96.11	3.89
200	3.75	0.075	88.05	97.82	2.18
230	4.00	0.063	89.13	99.02	0.98
PAN			90.01	100.00	0.00

PHI (5): -1.08 PHI (16): 2.50 PHI (25): 2.60
PHI (50): 2.85 PHI (75): 3.17 PHI (84): 3.31
PHI (95): 3.48

SIEVE LOSS (g): 0.00 SILT/CLAY: 2.18%
SKEWNESS: -4.100 KURTOSIS: 3.263

GRAPHIC METHOD

MEAN (PHI): 2.22 SORTING: 0.40
MEAN (mm): 0.22 MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.49 SORTING: 1.38
MEAN (mm): 0.18

DATA FILE NAME: EI-00-20#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-20#2

SAMPLE ELEV. (FT. NGVD): 8.0

SAMPLE DEPTH (FT.): 8.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.15

SAMPLE WEIGHT AFTER WASH (GRAMS): 93.68

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	0.06	0.06	99.94
14	-0.50	1.400	0.12	0.12	99.88
18	0.00	1.000	0.16	0.17	99.83
25	0.50	0.710	0.35	0.36	99.64
35	1.00	0.500	0.46	0.48	99.52
45	1.50	0.355	0.68	0.71	99.29
60	2.00	0.250	1.33	1.38	98.62
80	2.50	0.180	8.50	8.84	91.16
120	3.00	0.125	45.21	47.02	52.98
170	3.50	0.090	89.36	92.94	7.06
200	3.75	0.075	93.23	96.96	3.04
230	4.00	0.063	94.86	98.66	1.34
PAN			96.13	99.98	0.02

PHI (5): 2.24

PHI (16): 2.59

PHI (25): 2.71

PHI (50): 3.03

PHI (75): 3.30

PHI (84): 3.40

PHI (95): 3.63

SIEVE LOSS (g): 0.02

SILT/CLAY: 3.04%

SKEWNESS: -0.240

KURTOSIS: 0.958

GRAPHIC METHOD

MEAN (PHI): 2.98

SORTING: 0.40

MEAN (mm): 0.13

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.98

SORTING: 0.43

MEAN (mm): 0.13

DATA FILE NAME: EI-00-20#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-20#3

SAMPLE ELEV. (FT. NGVD): 10.0

SAMPLE DEPTH (FT.): 10.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 97.39

SAMPLE WEIGHT AFTER WASH (GRAMS): 88.74

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	1.56	1.60	98.40
7	-1.50	2.800	3.61	3.71	96.29
10	-1.00	2.000	5.70	5.85	94.15
14	-0.50	1.400	8.93	9.17	90.83
18	0.00	1.000	12.25	12.58	87.42
25	0.50	0.710	15.49	15.91	84.09
35	1.00	0.500	18.33	18.82	81.18
45	1.50	0.355	20.60	21.15	78.85
60	2.00	0.250	22.69	23.30	76.70
80	2.50	0.180	27.05	27.77	72.23
120	3.00	0.125	60.91	62.54	37.46
170	3.50	0.090	86.20	88.51	11.49
200	3.75	0.075	88.13	90.49	9.51
230	4.00	0.063	92.93	95.42	4.58
PAN			97.37	99.98	0.02

PHI (5): -1.20

PHI (16): 0.52

PHI (25): 2.19

PHI (50): 2.82

PHI (75): 3.24

PHI (84): 3.41

PHI (95): 3.98

SIEVE LOSS (g): 0.02

SILT/CLAY: 9.51%

SKEWNESS: -0.987

KURTOSIS: 2.021

GRAPHIC METHOD

MEAN (PHI): 1.91

SORTING: 1.45

MEAN (mm): 0.27

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

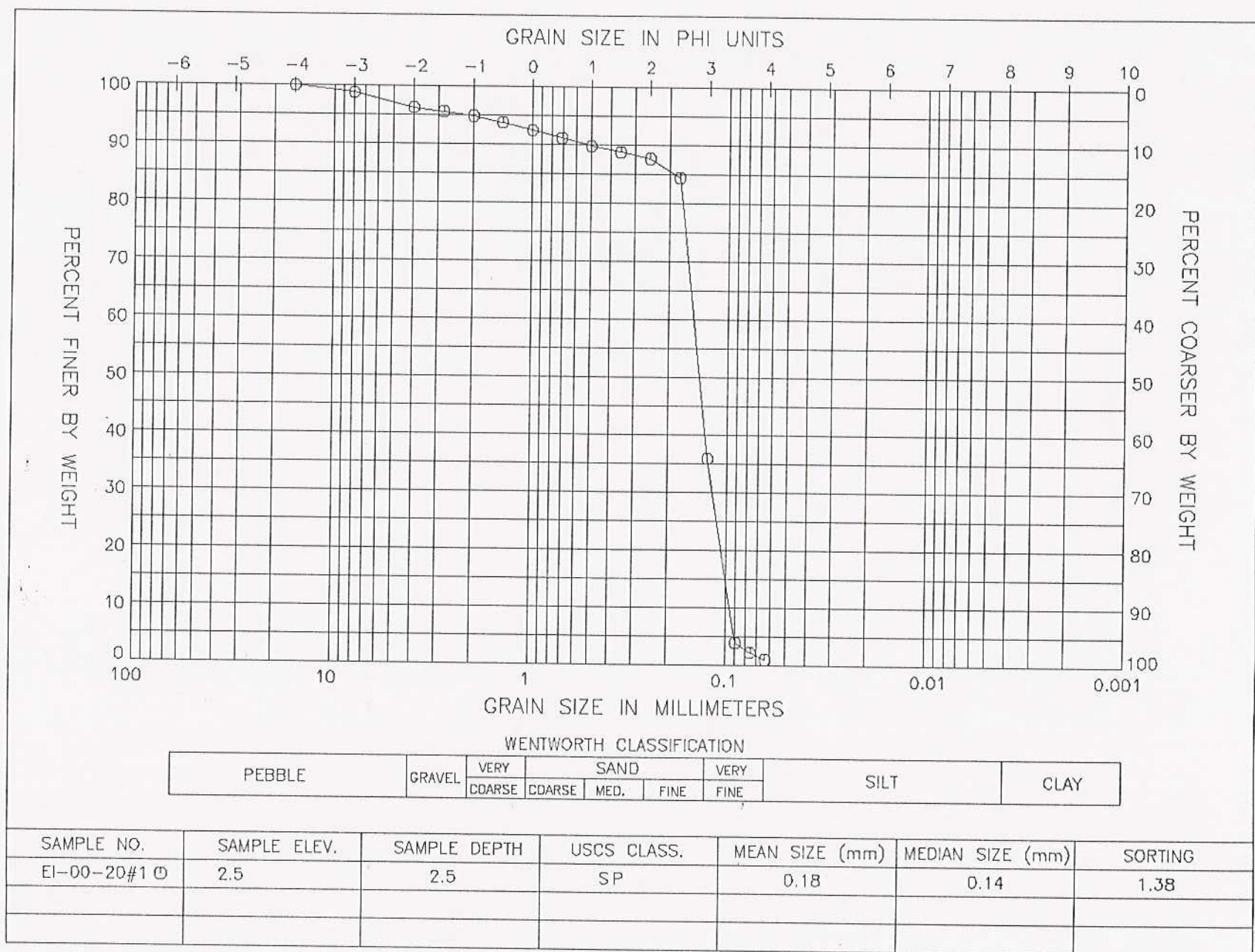
MEAN (PHI): 2.23

SORTING: 1.52

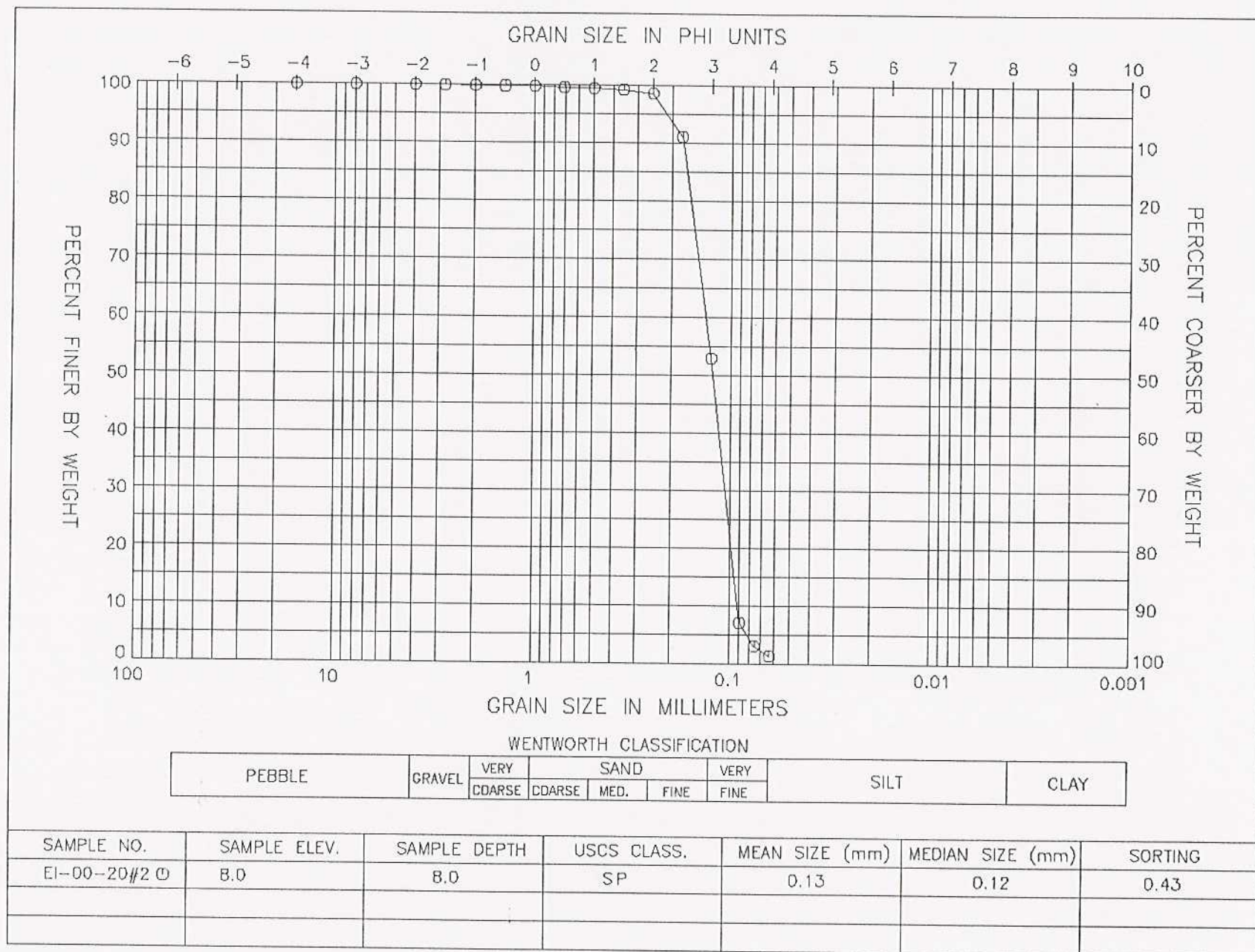
MEAN (mm): 0.21

DATA FILE NAME: EI-00-20#3.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000

