

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT CAPTIVA ISLAND SAND STUDY		10. SIZE AND TYPE OF BIT 3 5/8"		
2. LOCATION (Coordinates or Station) X=559354.91 Y=836595.24		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) CIVC-00-06		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 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 8/10/00 Completed 10:06		
8. DEPTH DRILLED INTO ROCK N/A		17. ELEVATION TOP OF HOLE -27.5 FT		
9. TOTAL DEPTH OF HOLE 18.9 FT		18. TOTAL CORE RECOVERY FOR BORING 93%		
		19. SIGNATURE OF GEOLOGIST SK/ID		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-27.5	0					
	1		SAND, medium grained, some shell hash/ shell fragments/whole shells, gray (5Y-6/1), (SP).		1	Sample #1, Depth = 2.0' Mean (mm): 0.45, Phi Sorting: 1.05 Silt: 1.72% (SP)
-30.5	2					
	3		SAND, medium grained, some shell hash/ shell fragments/whole shells, gray (5Y-6/1), (SP).		2	Sample #2, Depth = 4.0' Mean (mm): 0.41, Phi Sorting: 1.15 Silt: 3.11% (SW)
-32.8	4					
	5		SAND, calcareous fine-grained, little silt/clay (calcareous), little shell hash/shell fragments & whole shells, gray (5Y-6/1), (SM). Lens of silt/clay between 5.3'-5.7'.			
-34.8	6					
	7					
	8					
	9					
	10					
	11					
	12		CARBONATE CLASTS embedded in calcareous fines, ranges from fine sand sized to 2.0", white (5Y-8/1) with patches of light gray (5Y-7/1), (GM).			
	13					
	14					
	15					
	16					
-45.1	17					
-46.4	18		No Recovery			
	19		End of Boring			
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			Note: This column contains laboratory data.
	22					
	23					
	24					

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-6#1
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation:	-29.5	Feet	Easting:	559354.91	State Plane	1983
Reference:	NGVD 29		Northing:	836595.24	FLA West	Feet

USCS:	SP	Munsel Dry:	5Y-7/1	Munsel Wet:	5Y-6/1
Comments:	0				

Dry Wt.	51.64	Percent Silt:	1.72
Wash Wt.	50.75		

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.250	0.484	0.250	0.484
7	-1.500	2.828	0.330	0.639	0.580	1.123
10	-1.000	2.000	0.620	1.201	1.200	2.324
14	-0.500	1.414	1.460	2.827	2.660	5.151
18	0.000	1.000	3.340	6.468	6.000	11.619
25	0.500	0.707	4.660	9.024	10.660	20.643
35	1.000	0.500	6.080	11.774	16.740	32.417
45	1.500	0.354	11.070	21.437	27.810	53.854
60	2.000	0.250	16.850	32.630	44.660	86.483
80	2.500	0.177	5.070	9.818	49.730	96.301
120	3.000	0.125	0.760	1.472	50.490	97.773
170	3.500	0.088	0.180	0.349	50.670	98.122
200	3.750	0.074	0.050	0.097	50.720	98.218
230	4.000	0.063	0.010	0.019	50.730	98.238
Pan	Pan	0.053	0.890	1.723	51.620	99.961

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
-0.53	0.24	0.68	1.41	1.82	1.96	2.43

Median phi:	1.41	Median mm:	0.38
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	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.10	0.47	0.88	-0.51	1.06
Moment	1.15	0.45	1.05	-0.36	1.61

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-6#2
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation:	-31.5	Feet	Easting:	559354.91	State Plane	1983
Reference:	NGVD 29		Northing:	836595.24	FLA West	Feet

USCS:	SW	Munsel Dry:	5Y-7/1	Munsel Wet:	5Y-6/1
Comments:	0				

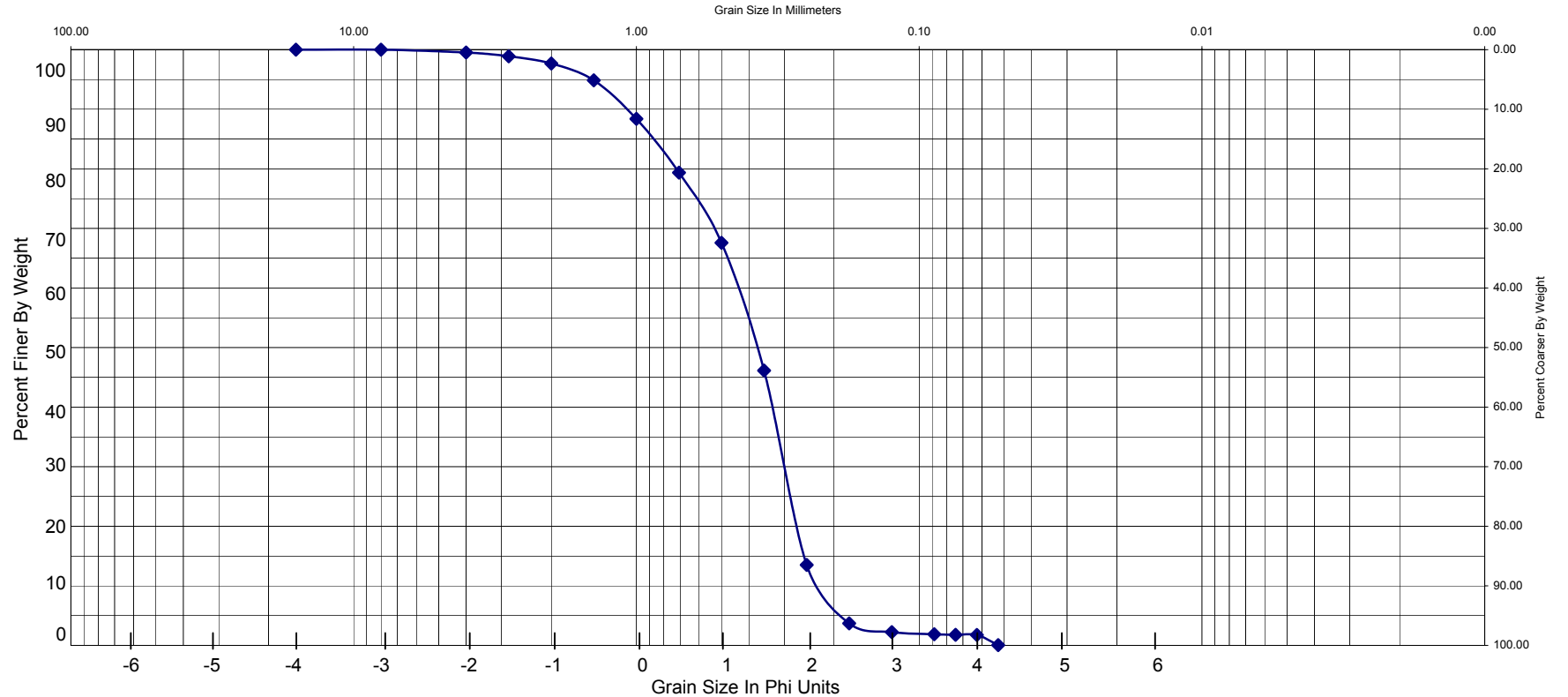
Dry Wt.	63.59	Percent Silt:	3.11
Wash Wt.	61.61		

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.460	0.723	0.460	0.723
7	-1.500	2.828	0.770	1.211	1.230	1.934
10	-1.000	2.000	0.760	1.195	1.990	3.129
14	-0.500	1.414	1.550	2.437	3.540	5.567
18	0.000	1.000	2.740	4.309	6.280	9.876
25	0.500	0.707	4.490	7.061	10.770	16.937
35	1.000	0.500	6.360	10.002	17.130	26.938
45	1.500	0.354	13.670	21.497	30.800	48.435
60	2.000	0.250	20.040	31.514	50.840	79.950
80	2.500	0.177	8.610	13.540	59.450	93.490
120	3.000	0.125	1.750	2.752	61.200	96.242
170	3.500	0.088	0.350	0.550	61.550	96.792
200	3.750	0.074	0.040	0.063	61.590	96.855
230	4.000	0.063	0.020	0.031	61.610	96.886
Pan	Pan	0.053	1.980	3.114	63.590	100.000

PHI 5	PHI 16	PHI 25	PHI 50	PHI 75	PHI 84	PHI 95
-0.62	0.43	0.90	1.52	1.92	2.15	2.77

Median phi:	1.52	Median mm:	0.35
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	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.25	0.42	0.94	-0.49	1.36
Moment	1.30	0.41	1.15	-0.40	1.86

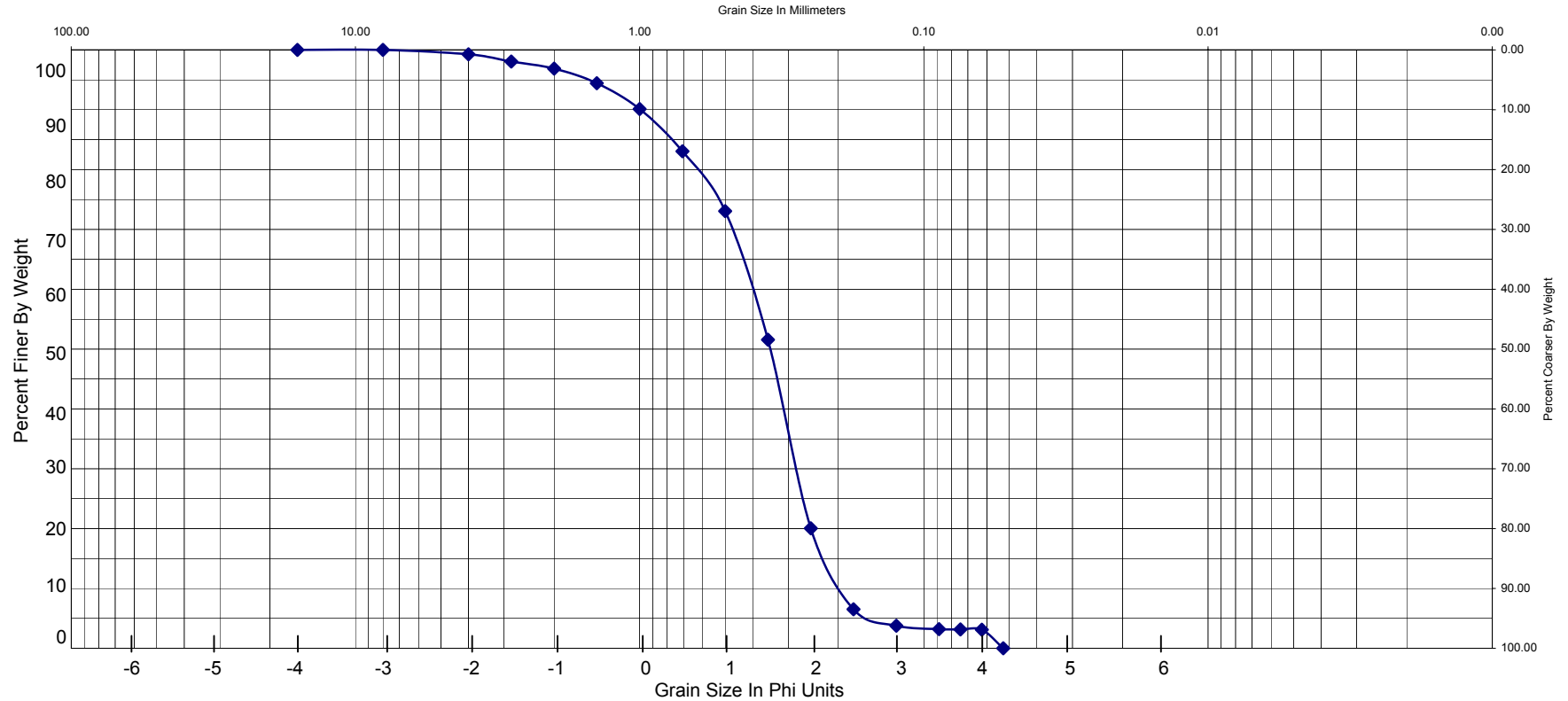


Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-6#1	2.0		SP	1.72	0.38	0.45	-0.36	1.61	1.05	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID
													Easting (X): 559354.91 Feet
													Northing (Y): 836595.24 Feet
													Sample Elevation: -29.5 NGVD 29
													Coord. System: State Plane 1983 FLA West



COASTAL PLANNING & ENGINEERING, INC.
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BOCA RATON, FLORIDA 33431



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-6#2	4.0		SW	3.11	0.35	0.41	-0.4	1.86	1.15	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID
													Easting (X): 559354.91 Feet
													Northing (Y): 836595.24 Feet
													Sample Elevation:-31.5 NGVD 29
													Coord. System: State Plane 1983 FLA West



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