

DRILLING LOG		DIVISION: South Atlantic		INSTALLATION: Jacksonville District		SHEET 1 of 1	
1. PROJECT CENTRAL BOCA SAND STUDY (Coordinates or Station)				10. SIZE AND TYPE OF BIT 3 5/8"			
2. LOCATION X=962736.27 Y=726975.48				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc. (As shown on drawing title and file number)				12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE			
4. HOLE NO. CIVC-00-30				13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0			
5. NAME OF DRILLER JAMES COLE				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: 3/23/01 Completed: 13:12			
8. DEPTH DRILLED INTO ROCK N/A				17. ELEVATION TOP OF HOLE -59.5 ft			
9. TOTAL DEPTH OF HOLE 15.8 FT				18. TOTAL CORE RECOVERY FOR BORING 92%			
				19. SIGNATURE OF GEOLOGIST MW/ID			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-59.5	0					
	1					
	2		SAND, fine to medium grained, trace shell hash, gray (5Y-5/1), (SP). 1" shell @ 1.0', 1" sand dollar @ 4.0'.		1	Sample #1, Depth = 3.0' Mean (mm): 0.32, Phi Sorting: 0.91 Silt: 1.76% (SP)
-63.8	4					
	5		SAND, fine to medium grained, trace shell hash, gray (5Y-5/1), (SP). 1" coral @ 5.4', 1.5" shell @ 5.5', 0.5" coral @ 6.4', 1.5" coral @ 6.5'.		2	Sample #2, Depth = 5.5' Mean (mm): 0.29, Phi Sorting: 1.24 Silt: 3.24% (SW)
-66.4	6					
	7					
	8					
	9					
	10					
	11		SHELLY SAND mixed with coral fragments ranging from pebble sized to 4", gray (5Y-6/1) from 6.9' to 12.0', light gray (5Y-7/2) from 12.0' to 14.5', (GP).			
	12					
	13					
-74	14					
	15		No Recovery			
-75.3	16		End of Boring			
	17					
	18					
	19					
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			Note: 1) This column contains laboratory data. 2) Samples are taken from a 3" section of the core, centered on the sample depth.
	22					
	23					
	24					

PROJECT: Central Boca Sand Study	HOLE NUMBER:
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Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBVC-01-30#1
 Date: 4/20/01
 By: ID

COASTAL PLANNING & ENGINEERING, INC.

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

Elevation: -62.50 Feet Easting: 962736.27 State Plane 1983
 Reference: NGVD Northing: 726975.48 FLA East Feet

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

Dry Wt. 61.33 Percent Silt: 1.76
 Wash Wt. 60.28

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.130	0.212	0.130	0.212
10	-1.000	2.000	0.160	0.261	0.290	0.473
14	-0.500	1.414	0.470	0.766	0.760	1.239
18	0.000	1.000	0.900	1.467	1.660	2.707
25	0.500	0.707	2.610	4.256	4.270	6.962
35	1.000	0.500	7.310	11.919	11.580	18.881
45	1.500	0.354	10.590	17.267	22.170	36.149
60	2.000	0.250	18.310	29.855	40.480	66.004
80	2.500	0.177	14.630	23.855	55.110	89.858
120	3.000	0.125	4.440	7.240	59.550	97.098
170	3.500	0.088	0.680	1.109	60.230	98.206
200	3.750	0.074	0.010	0.016	60.240	98.223
230	4.000	0.063	0.020	0.033	60.260	98.255
Pan	Pan	0.053	1.060	1.728	61.320	99.984

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.27 0.88 1.18 1.73 2.19 2.38 2.85

Median phi: 1.73 Median mm: 0.30

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.62	0.32	0.77	-0.21	1.05
Moment	1.64	0.32	0.91	-0.16	1.55

Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBVC-01-30#2
 Date: 4/20/01
 By: ID

COASTAL PLANNING & ENGINEERING, INC.

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

Elevation: -65.00 Feet Easting: 962736.27 State Plane 1983
 Reference: NGVD Northing: 726975.48 FLA East Feet

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

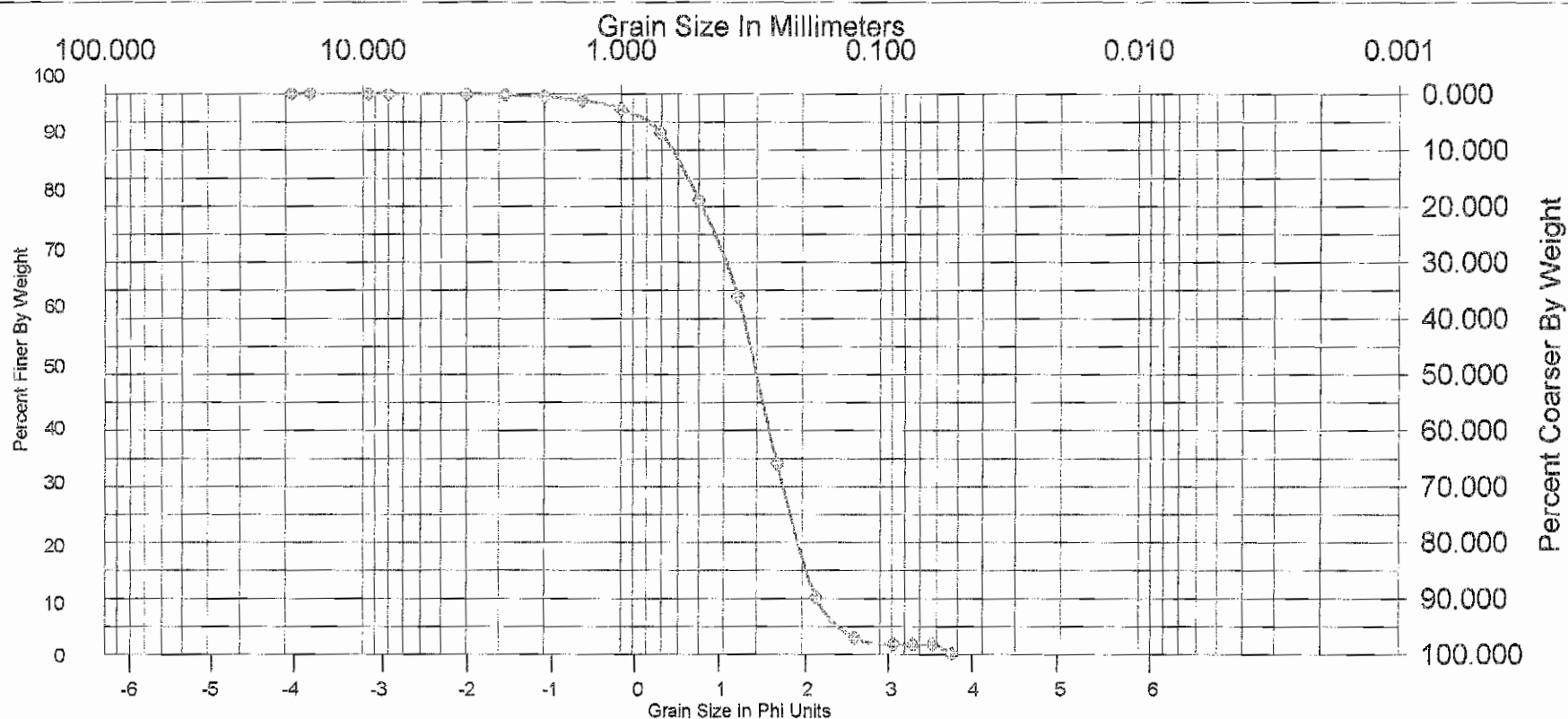
Dry Wt. 59.88 Percent Silt: 3.24
 Wash Wt. 58.06

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.600	1.002	0.600	1.002
5	-2.000	4.000	0.140	0.234	0.740	1.236
7	-1.500	2.828	0.440	0.735	1.180	1.971
10	-1.000	2.000	0.640	1.069	1.820	3.039
14	-0.500	1.414	0.900	1.503	2.720	4.542
18	0.000	1.000	1.370	2.288	4.090	6.830
25	0.500	0.707	2.390	3.991	6.480	10.822
35	1.000	0.500	3.940	6.580	10.420	17.401
45	1.500	0.354	5.540	9.252	15.960	26.653
60	2.000	0.250	11.550	19.289	27.510	45.942
80	2.500	0.177	17.890	29.876	45.400	75.818
120	3.000	0.125	10.690	17.852	56.090	93.671
170	3.500	0.088	1.750	2.923	57.840	96.593
200	3.750	0.074	0.090	0.150	57.930	96.743
230	4.000	0.063	0.050	0.084	57.980	96.827
Pan	Pan	0.053	1.890	3.156	59.870	99.983

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 -0.40 0.89 1.41 2.07 2.49 2.73 3.22

Median phi: 2.07 Median mm: 0.24

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	1.70	0.31	1.01	-0.64	1.38
Moment	1.77	0.29	1.24	-0.58	2.00



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	
CBVC-01-30#1	3.0		SP	1.76	0.3	0.32	-0.16	1.55	0.91	NA	NA	NA	Project Name:	Central Boca
													Sample Type:	VibraCores
													Collection Date:	4/20/01
													Analysis By:	ID
													Easting (X):	962736.27 Feet
													Northing (Y):	726975.48 Feet
													Sample Elevation:	-62.5 NGVD
													Coord. System:	State Plane 1983 FLA East

COASTAL PLANNING & ENGINEERING, INC.

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BOCA RATON, FLORIDA 33431

