

VIBRACORE LOG								
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-1				
COORDINATES:		DATE: SEPT. 11, 1984		WATER DEPTH: 41.0 FL NGVD				
N = 748260		START TIME: 0826		DRILLER: EXMAR (W. BARTH)				
E = 808270		END TIME: 0933		CLIENT REP: R. SPADONI				
CORE DIAMETER: 2.5" LENGTH OF BARREL: 20.0' PENETRATION DEPTH: 20.0' LENGTH RECOVERED: 18.6' PERCENT RECOVERED: 93 % LENGTH RETAINED : 18.5'		ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
		41.0'	0.0					
SUPPORT VESSEL: SEAWARD EXPLORER  POSITIONING: TRISPOUNDER  <b>WEATHER:</b>  <u>WIND:</u> DIR: SPEED:  <u>WAVES</u> DIR: HEIGHT:  <b>ANALYSIS BY CPE 1994</b> <b>ANALYSIS BY UF 1984</b>  <b>ANALYSIS METHOD:</b> VISUAL LOGGING MECHANICAL SIEVE  <div style="display: flex; justify-content: space-around; font-size: small;"> <div style="text-align: center;">               SAND           </div> <div style="text-align: center;">               SHELLS           </div> <div style="text-align: center;">               CORAL FRAG.           </div> <div style="text-align: center;">               SHELL HASH           </div> </div>				D R E D G E D		1.0'	0.1 % SILT	
							5.0'	CUT
			5.0			GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	5.0'	<0.1 % SILT
							8.0'	<0.1 % SILT CUT
			10.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	11.2'	<0.1 % SILT	
					12 FT			
		55.0'				1	CUT	
			15.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	14.0'	1.87 Phi 0.27 mm 2.1 % SILT (SP)	
						2	1.62 Phi 0.33 mm 2.5 % SILT (SP)	
						16.5'	<0.1 % SILT	
		61.0'	20.0					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
 NOTE: UF 1984 COMPOSITE 0.27 mm / CPE 1994 COMPOSITE 0.30 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR1 S#1  
SAMPLE ELEV. (FT. NGVD): -55.0  
SAMPLE DEPTH (FT.): -14.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 67.57  
SAMPLE WEIGHT AFTER WASH (GRAMS): 66.17

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.00	.00	100.00
10	-1.0	2.000	.10	.15	99.85
14	-0.5	1.400	.23	.34	99.66
18	0.0	1.000	.42	.62	99.38
25	0.5	.710	1.31	1.94	98.06
35	1.0	.500	5.34	7.90	92.10
45	1.5	.355	14.28	21.13	78.87
60	2.0	.250	38.95	57.64	42.36
80	2.5	.180	59.71	88.37	11.63
120	3.0	.125	65.74	97.29	2.71
170	3.5	.090	66.13	97.87	2.13
200	3.75	.075	66.16	97.91	2.09
230	4.0	.063	66.87	98.96	1.04
PAN			67.57	100.00	.00

PHI(5): .76 PHI(16): 1.31 PHI(25): 1.55  
PHI(50): 1.90 PHI(75): 2.28 PHI(84): 2.43  
PHI(95): 2.87

SIEVE LOSS(g): .00 SILT/CLAY: 2.09%  
SKEWNESS: -.162 KURTOSIS: 1.188

GRAPHIC METHOD

MEAN (PHI): 1.85 SORTING: .56  
MEAN (mm): .28 MEDIAN (mm): .27  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.87 SORTING: .61  
MEAN (mm): .27

DATA FILE NAME: B:VC1S#1.TAB

GRADATION ANALYSIS REPORT  
N. BOCA RATON BORROW AREA VC 9/84  
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR1 S#2  
SAMPLE ELEV. (FT. NGVD): -57.5  
SAMPLE DEPTH (FT.): -16.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 73.84  
SAMPLE WEIGHT AFTER WASH (GRAMS): 72.07

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.19	.26	99.74
7	-1.5	2.800	.49	.66	99.34
10	-1.0	2.000	.91	1.23	98.77
14	-0.5	1.400	1.65	2.23	97.77
18	0.0	1.000	2.66	3.60	96.40
25	0.5	.710	5.14	6.96	93.04
35	1.0	.500	12.46	16.87	83.13
45	1.5	.355	24.29	32.90	67.10
60	2.0	.250	51.52	69.77	30.23
80	2.5	.180	68.09	92.21	7.79
120	3.0	.125	71.67	97.06	2.94
170	3.5	.090	71.93	97.41	2.59
200	3.75	.075	71.98	97.48	2.52
230	4.0	.063	72.88	98.69	1.31
PAN			73.76	99.89	.11

PHI(5): .21 PHI(16): .96 PHI(25): 1.25  
PHI(50): 1.73 PHI(75): 2.12 PHI(84): 2.32  
PHI(95): 2.79

SIEVE LOSS(g): .08 SILT/CLAY: 2.52%  
SKEWNESS: -.468 KURTOSIS: 1.225

GRAPHIC METHOD

MEAN (PHI): 1.60 SORTING: .68  
MEAN (mm): .33 MEDIAN (mm): .30

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.62 SORTING: .80  
MEAN (mm): .33

DATA FILE NAME: B:VC1S#2.TAB

GRAIN SIZE DISTRIBUTION CURVE  
N. BOCA RATON BORROW AREA VC 9/84



