

VIBRACORE LOG								
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-7				
COORDINATES:		DATE: SEPT. 12, 1984		WATER DEPTH: 43.0 Ft. NGVD				
N = 742199		START TIME: 1045		DRILLER: EXMAR (W. BARTH)				
E = 807872		END TIME: 1058		CLIENT REP: R. SPADONI				
CORE DIAMETER:	2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL:	20.0'	43.0'	0.0					
PENETRATION DEPTH:	18.0'							
LENGTH RECOVERED:	16.5'					1.5'	0.2 % SILT	
PERCENT RECOVERED:	92 %							
LENGTH RETAINED :	16.5'							
SUPPORT VESSEL: SEAWARD EXPLORER						3.5'	0.4 % SILT	
POSITIONING: TRISPOUNDER			5.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH			
WEATHER:				D R E D G E D 1 9 8 8			CUT	
WIND:								
DIR:								
SPEED:						8.0'	0.3 % SILT	
WAVES					9.0 FT			
DIR:			10.0					
HEIGHT:								
ANALYSIS BY CPE 1994		54.5'				17	CUT	
ANALYSIS BY UF 1984						11.5'	1.94 Phi 0.26 mm 4.1 % SILT (SP) 0.3 % SILT	
ANALYSIS METHOD:								
VISUAL LOGGING								
MECHANICAL SIEVE								
SAND		58.0'	15.0		BROWN / GRAY MEDIUM GRAIN SAND WITH SHELLS, CORAL FRAGMENTS AND SHELL HASH	18	1.87 Phi 0.27 mm 4.6 % SILT (SP)	
SHELLS						15.0'		
CORAL FRAG.		61.0'	18.0					
SHELL HASH								
			20.0					

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: BR7 S#17
SAMPLE ELEV. (FT. NGVD): -54.5
SAMPLE DEPTH (FT.): -11.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 84.79
SAMPLE WEIGHT AFTER WASH (GRAMS): 81.41

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	.16	.19	99.81
7	-1.5	2.800	.39	.46	99.54
10	-1.0	2.000	.64	.75	99.25
14	-0.5	1.400	1.14	1.34	98.66
18	0.0	1.000	1.60	1.89	98.11
25	0.5	.710	3.12	3.68	96.32
35	1.0	.500	7.19	8.48	91.52
45	1.5	.355	15.08	17.79	82.21
60	2.0	.250	41.17	48.56	51.44
80	2.5	.180	69.14	81.54	18.46
120	3.0	.125	80.35	94.76	5.24
170	3.5	.090	81.12	95.67	4.33
200	3.75	.075	81.29	95.87	4.13
230	4.0	.063	83.01	97.90	2.10
PAN			84.71	99.91	.09

PHI(5): .64 PHI(16): 1.40 PHI(25): 1.62
PHI(50): 2.02 PHI(75): 2.40 PHI(84): 2.59
PHI(95): 3.13

SIEVE LOSS(g): .08 SILT/CLAY: 4.13%
SKEWNESS: -.276 KURTOSIS: 1.304

GRAPHIC METHOD

MEAN (PHI): 1.96 SORTING: .59
MEAN (mm) : .26 MEDIAN (mm): .25
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.94 SORTING: .76
MEAN (mm) : .26

DATA FILE NAME: B:VC7S#17.TAB

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

SAMPLE NO.: BR7 S#18
SAMPLE ELEV. (FT. NGVD): -58.0
SAMPLE DEPTH (FT.): -15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 79.34
SAMPLE WEIGHT AFTER WASH (GRAMS): 75.87

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	.09	.11	99.89
10	-1.0	2.000	.23	.29	99.71
14	-0.5	1.400	.71	.89	99.11
18	0.0	1.000	1.21	1.53	98.47
25	0.5	.710	2.63	3.31	96.69
35	1.0	.500	7.28	9.18	90.82
45	1.5	.355	16.62	20.95	79.05
60	2.0	.250	44.95	56.65	43.35
80	2.5	.180	68.41	86.22	13.78
120	3.0	.125	74.36	93.72	6.28
170	3.5	.090	75.49	95.15	4.85
200	3.75	.075	75.73	95.45	4.55
230	4.0	.063	77.54	97.74	2.26
PAN			79.29	99.94	.06

PHI(5): .64 PHI(16): 1.29 PHI(25): 1.56
PHI(50): 1.91 PHI(75): 2.31 PHI(84): 2.46
PHI(95): 3.45

SIEVE LOSS(g): .05 SILT/CLAY: 4.55%
SKEWNESS: .278 KURTOSIS: 1.525

GRAPHIC METHOD

MEAN (PHI): 1.95 SORTING: .59
MEAN (mm): .26 MEDIAN (mm): .27
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.87 SORTING: .72
MEAN (mm): .27

DATA FILE NAME: B:VC7S#18.TAB

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

