

VIBRACORE LOG									
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1994)</u>				CORE NO: <u>NBR - 2A</u>					
COORDINATES: N = 744055 E = 808303	DATE: SEPT. 18, 1994 START TIME: 1716 END TIME: 1722	WATER DEPTH: 52.8 Ft NGVD DRILLER: EXMAR CLIENT REP : M. ANDREWS							
CORE DIAMETER: 3.0" LENGTH OF BARREL: 20.0' PENETRATION DEPTH: 20.0' JETTED TO: 12.0' LENGTH RECOVERED: 9.0' PERCENT RECOVERED: 93 % LENGTH RETAINED : 6.5'	SUPPORT VESSEL: SEAWARD EXPLORER POSITIONING: DGPS MOTOROLA LGT 1000 / OMNISTAR DGPS	WEATHER: WIND: DIR : SE SPEED : 10 -15 Kt WAVES: DIR : SSE HEIGHT: 1 -3 Ft CURRENT: DIR : NORTH SPEED : LIGHT	ANALYSIS BY : MDA ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE	ELEV. 52.8' 5.0 10.0 15.0 68.8' 74.0'	DEPTH 0.0 5.0 10.0 15.0 20.0	LEGEND JETTED TO 12 FT. SEE NBR-2 JETTED MATERIAL GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAREOUS SHELL HASH	DESCRIPTION 3 16.0'	SAMP NO. 3 16.0'	REMARKS CUT 2.21 Phi 0.22 mm 1.6 % SILTY (SP)

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
 NOTE : CORE WEIGHTED COMPOSITE 0.21 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
N. BOCA RATON VIBRACORE 9-94
TESTED BY: MDA ON: 11-14-94

SAMPLE NO.: NBR2 S#3
SAMPLE ELEV. (FT. NGVD): -68.8
SAMPLE DEPTH (FT.): -16.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.13
SAMPLE WEIGHT AFTER WASH (GRAMS): 67.09

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	.05	.07	99.93
10	-1.0	2.000	.16	.23	99.77
14	-0.5	1.400	.39	.57	99.43
18	0.0	1.000	.68	1.00	99.00
25	0.5	.710	1.38	2.03	97.97
35	1.0	.500	2.94	4.32	95.68
45	1.5	.355	6.26	9.19	90.81
60	2.0	.250	20.35	29.87	70.13
80	2.5	.180	44.59	65.45	34.55
120	3.0	.125	64.20	94.23	5.77
170	3.5	.090	66.97	98.30	1.70
200	3.75	.075	67.03	98.39	1.61
230	4.0	.063	67.57	99.18	.82
PAN			68.10	99.96	.04

PHI(5): 1.07	PHI(16): 1.66	PHI(25): 1.88
PHI(50): 2.28	PHI(75): 2.67	PHI(84): 2.82
PHI(95): 3.09		

SIEVE LOSS(g): .03	SILT/CLAY: 1.61%
SKEWNESS: -.401	KURTOSIS: 1.059

GRAPHIC METHOD

MEAN (PHI): 2.19	SORTING: .58
MEAN (mm) : .22	MEDIAN (mm): .21
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

MOMENT METHOD

MEAN (PHI): 2.21	SORTING: .65
MEAN (mm) : .22	

DATA FILE NAME: A:VC2S#3.TAB

GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON VIBRACORE 9-94

