
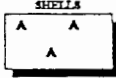
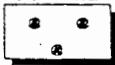
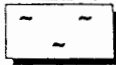
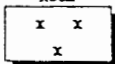


VIBRACORE LOG						
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1984)</u>				CORE NO: <u>NBR - 19A</u>		
COORDINATES:		DATE: SEPT. 24, 1994		WATER DEPTH: 53.8 Ft NGVD		
N = 738978		START TIME: 1146		DRILLER: EXMAR		
E = 808027		END TIME: 1156		CLIENT REP: M. ANDREWS		
CORE DIAMETER: 3.0"  LENGTH OF BARREL: 20.0'  PENETRATION DEPTH: 20.0' JETTED TO: 13.5' LENGTH RECOVERED: 7.2' PERCENT RECOVERED: 98 % LENGTH RETAINED : 7.2'	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
	53.8'	0.0				
SUPPORT VESSEL: SEAWARD EXPLORER  POSITIONING: DGPS MOTOROLA LGT 1000 / OMNISTAR DGPS		5.0	JETTED TO 13.5 FT.			
WEATHER:  <u>WIND:</u> DIR: SE SPEED: 10 -15 Kt  <u>WAVES:</u> DIR: SE HEIGHT: 1 -2 Ft  <u>CURRENT:</u> DIR: SOUTH SPEED: MODERATE		10.0	SEE NBR-19			
ANALYSIS BY: MDA  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE		13.5	JETTED MATERIAL			
	67.3'					
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">           SAND   </div> <div style="text-align: center;">           SHELLS   </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">           CORAL FRAG.   </div> <div style="text-align: center;">           SHELL HASH   </div> </div> <div style="text-align: center; margin-top: 10px;">           ROCK   </div>		15.0	---	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	3	CUT  2.04 Phi 0.24 mm 2.1 % SILT (SP)
	69.8'				16.0'	
	73.8'	20.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD  
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927  
 NOTE: CORE WEIGHTED COMPOSITE 0.22 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: NBR19 S#3  
SAMPLE ELEV. (FT. NGVD): -69.8  
SAMPLE DEPTH (FT.): -16.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.10  
SAMPLE WEIGHT AFTER WASH (GRAMS): 67.69

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	.20	.29	99.71
7	-1.5	2.800	.50	.72	99.28
10	-1.0	2.000	.75	1.09	98.91
14	-0.5	1.400	1.27	1.84	98.16
18	0.0	1.000	1.84	2.66	97.34
25	0.5	.710	2.91	4.21	95.79
35	1.0	.500	5.38	7.79	92.21
45	1.5	.355	9.79	14.17	85.83
60	2.0	.250	27.19	39.35	60.65
80	2.5	.180	50.88	73.63	26.37
120	3.0	.125	65.35	94.57	5.43
170	3.5	.090	67.53	97.73	2.27
200	3.75	.075	67.63	97.87	2.13
230	4.0	.063	68.37	98.94	1.06
PAN			69.09	99.99	.01

PHI(5): .61	PHI(16): 1.54	PHI(25): 1.72
PHI(50): 2.16	PHI(75): 2.53	PHI(84): 2.75
PHI(95): 3.07		

SIEVE LOSS(g): .01	SILT/CLAY: 2.13%
SKEWNESS: -.633	KURTOSIS: 1.232

GRAPHIC METHOD

MEAN (PHI): 2.02	SORTING: .61
MEAN (mm) : .25	MEDIAN (mm): .22

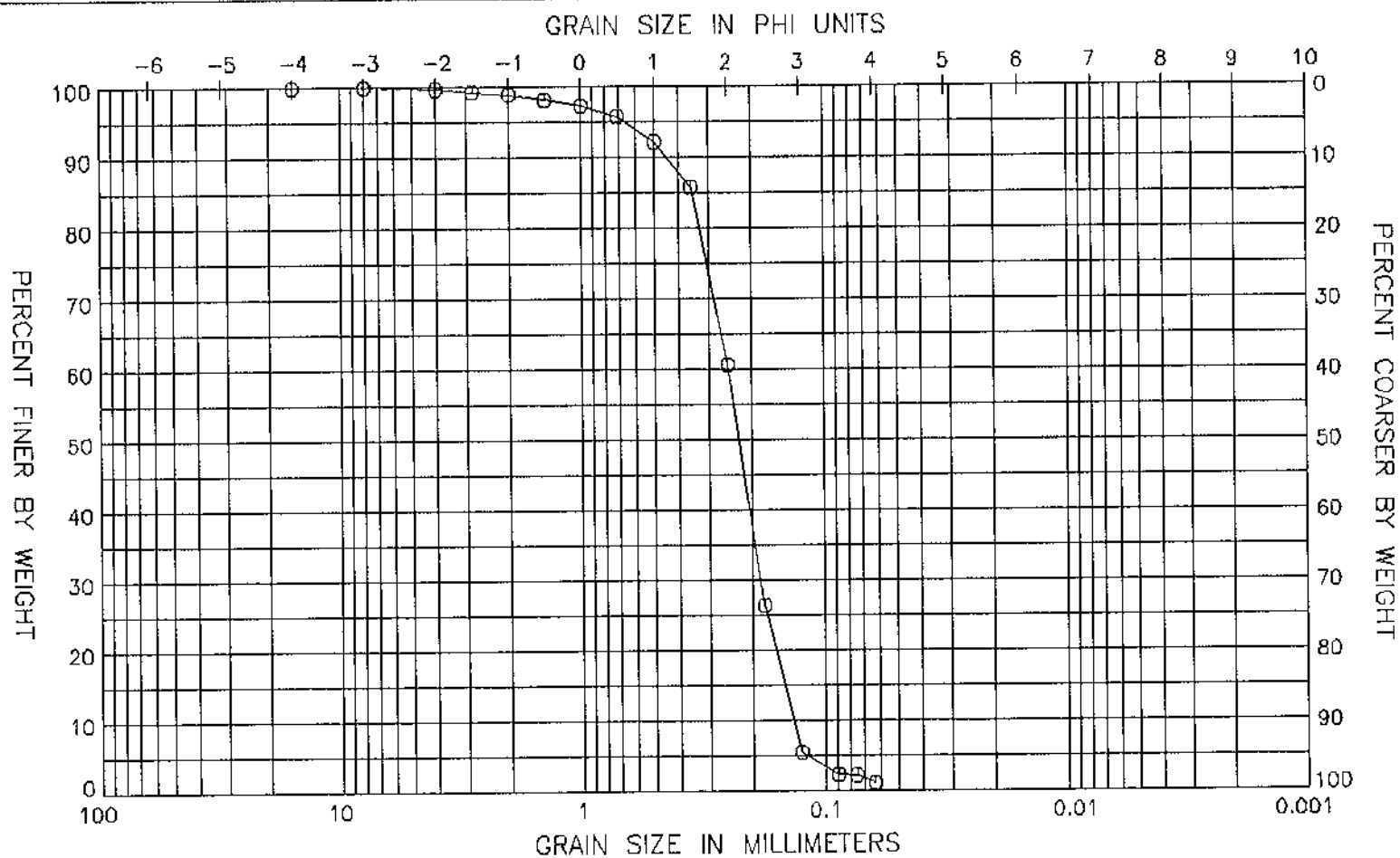
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.04	SORTING: .80
MEAN (mm) : .24	

DATA FILE NAME: A:VC19S#3.TAB

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



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
NBR19 S#3 ①	-69.8	-16.0	SP	0.25	0.22	0.61