
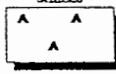
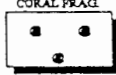
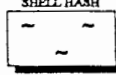
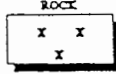


VIBRACORE LOG							
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1994)</u>				CORE NO: <u>NBR - 2</u>			
COORDINATES: N = 744108 E = 808326	DATE: SEPT. 18, 1994 START TIME: 1604 END TIME: 1643	WATER DEPTH: 53.7 Ft. NGVD DRILLER: EXMAR CLIENT REP : M. ANDREWS					
CORE DIAMETER: 3.0" LENGTH OF BARREL: 20.0' PENETRATION DEPTH: 17.0' LENGTH RECOVERED: 14.4' PERCENT RECOVERED: 85 % LENGTH RETAINED : 14.3'	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
SUPPORT VESSEL: SEAWARD EXPLORER POSITIONING: DGPS MOTOROLA LGT 1000 / OMNISTAR DGPS  WEATHER:  WIND: DIR: SE SPEED: 10 -15 Kt  WAVES: DIR: SE HEIGHT: 1 - 3 Ft.  CURRENT: DIR: SOUTH SPEED: LIGHT  ANALYSIS BY : MDA  ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE  <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div style="text-align: center;">SAND </div> <div style="text-align: center;">SHELLS </div> </div> <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div style="text-align: center;">CORAL FRAG. </div> <div style="text-align: center;">SHELL HASH </div> </div> <div style="text-align: center; font-size: 0.8em;">ROCK </div>	53.7'	0.0	---				
	57.7'	5.0	---	A A A	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAREOUS SHELL HASH	1 4.0'	2.33 Phi 0.20 mm 1.5 % SILT (SP) CUT
	61.7'	10.0	---	A A A	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAREOUS SHELL HASH	2 8.0'	2.16 Phi 0.22 mm 1.6 % SILT (SP) CUT
	70.8'	15.0	---	@ @	GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAREOUS SHELL HASH		
		17.0	---	---			
	20.0	---	---				

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#1

SAMPLE ELEV. (FT. NGVD): -57.7

SAMPLE DEPTH (FT.): -4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.84

SAMPLE WEIGHT AFTER WASH (GRAMS): 62.94

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	.08	99.92
10	-1.0	2.000	.34	.53	99.47
14	-0.5	1.400	.56	.88	99.12
18	0.0	1.000	.85	1.33	98.67
25	0.5	.710	1.26	1.97	98.03
35	1.0	.500	2.30	3.60	96.40
45	1.5	.355	4.12	6.45	93.55
60	2.0	.250	12.74	19.96	80.04
80	2.5	.180	36.20	56.70	43.30
120	3.0	.125	59.15	92.65	7.35
170	3.5	.090	62.86	98.46	1.54
200	3.75	.075	62.90	98.53	1.47
230	4.0	.063	63.37	99.26	.74
PAN			63.83	99.98	.02

PHI(5): 1.25

PHI(16): 1.85

PHI(25): 2.07

PHI(50): 2.41

PHI(75): 2.75

PHI(84): 2.88

PHI(95): 3.20

SIEVE LOSS(g): .01

SILT/CLAY: 1.47%

SKEWNESS: -.371

KURTOSIS: 1.169

## GRAPHIC METHOD

MEAN (PHI): 2.32

SORTING: .51

MEAN (mm): .20

MEDIAN (mm): .19

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.33

SORTING: .65

MEAN (mm): .20

DATA FILE NAME: A:VC2S#1.TAB

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

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SAMPLE NO.: NBR2 S#2  
SAMPLE ELEV. (FT. NGVD): -61.7  
SAMPLE DEPTH (FT.): -8.0  
SAMPLE TYPE: CORE SAMPLE  
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USCS DESCRIPTION: SP  
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DRY SAMPLE WEIGHT (GRAMS):    70.98  
SAMPLE WEIGHT AFTER WASH (GRAMS):    69.86  
-----

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	.18	.25	99.75
10	-1.0	2.000	.35	.49	99.51
14	-0.5	1.400	.66	.93	99.07
18	0.0	1.000	.93	1.31	98.69
25	0.5	.710	1.52	2.14	97.86
35	1.0	.500	3.47	4.89	95.11
45	1.5	.355	7.63	10.75	89.25
60	2.0	.250	23.36	32.91	67.09
80	2.5	.180	48.75	68.68	31.32
120	3.0	.125	68.03	95.84	4.16
170	3.5	.090	69.77	98.30	1.70
200	3.75	.075	69.82	98.37	1.63
230	4.0	.063	70.40	99.18	.82
PAN			70.96	99.97	.03

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PHI(5): 1.01	PHI(16): 1.62	PHI(25): 1.82
PHI(50): 2.24	PHI(75): 2.62	PHI(84): 2.78
PHI(95): 2.98		

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SIEVE LOSS(g): .02	SILT/CLAY: 1.63%
SKEWNESS: -.484	KURTOSIS: 1.018

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GRAPHIC METHOD

MEAN (PHI): 2.13	SORTING: .58
MEAN (mm) : .23	MEDIAN (mm): .21

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
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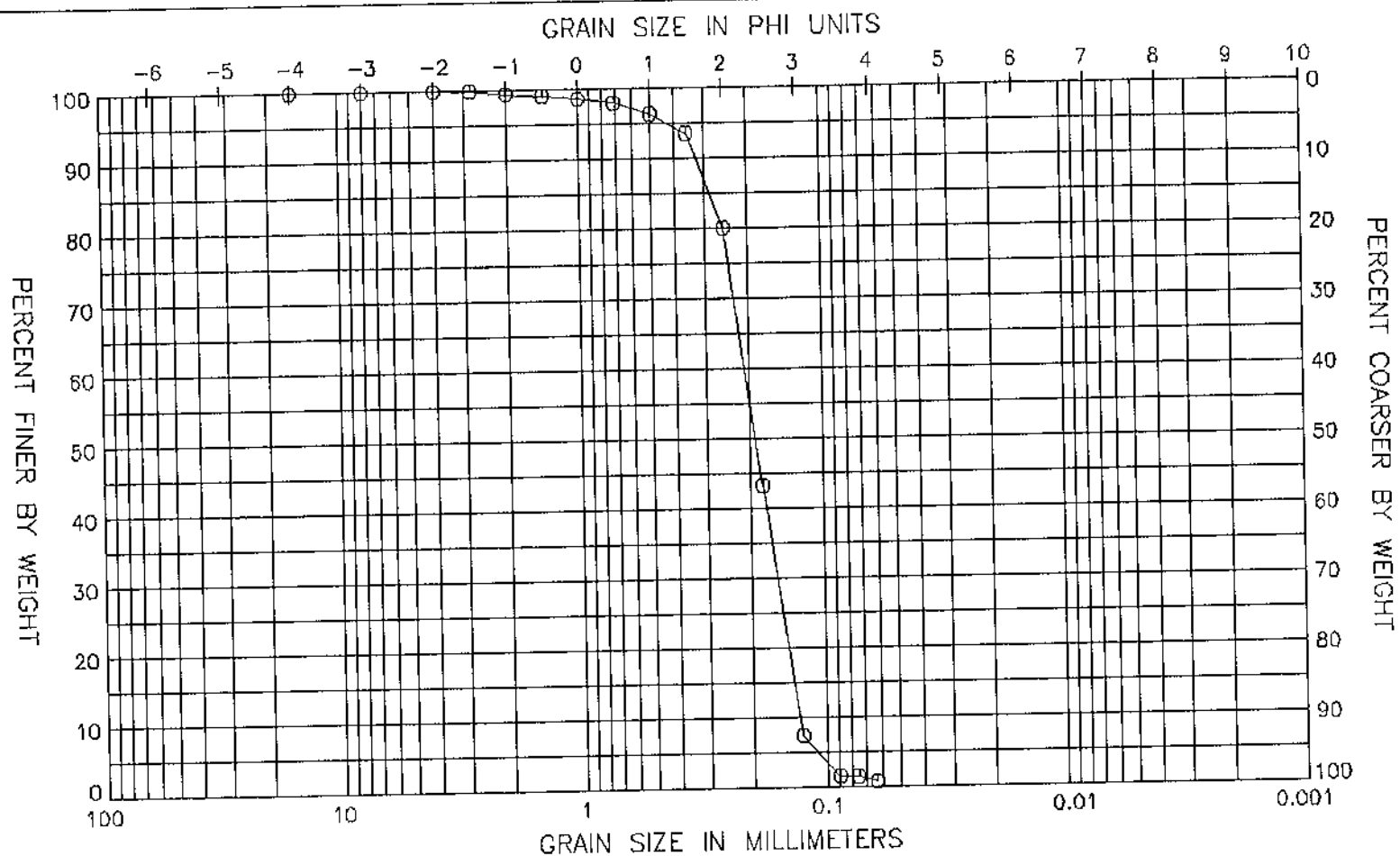
MOMENT METHOD

MEAN (PHI): 2.16	SORTING: .67
MEAN (mm) : .22	

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DATA FILE NAME: A:VC2S#2.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
NBR2 S#1 0	-57.7	-4.0	SP	0.20	0.19	0.51

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

