

VIBRACORE LOG							
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1984)</u>				CORE NO: <u>BR-2</u>			
<u>COORDINATES:</u>	DATE: SEPT. 11, 1984	WATER DEPTH: 39.0 Ft. NGVD					
N = 747500	START TIME: 1415	DRILLER: EXMAR (W. BARTH)					
E = 808106	END TIME: 1425	CLIENT REP: R. SPADONI					
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 20.0'	39.0'	0.0					
PENETRATION DEPTH: 18.0'			D R E D G E D	GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	1.0'	0.2 % SILT	
LENGTH RECOVERED: 17.6'					4.0'	0.3 % SILT CUT	
PERCENT RECOVERED: 98 %							
LENGTH RETAINED : 17.5'							
SUPPORT VESSEL: SEAWARD EXPLORER							
POSITIONING: TRISPOUNDER		5.0					
<u>WEATHER:</u>							
<u>WIND:</u>							
DIR:							
SPEED:							
<u>WAVES</u>							
DIR:							
HEIGHT:							
ANALYSIS BY CPE 1994							
ANALYSIS BY UF 1984							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE							
SAND							
SHELLS							
CORAL FRAG.							
SHELL HASH							
	51.5'			11.8 FT	3	CUT	
					12.5'	1.86 Phi 0.28 mm 1.8 % SILT (SP)	
	54.0'	15.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	4	1.72 Phi 0.30 mm 1.6 % SILT (SP)	
					15.0'		
	57.0'	18.0					
		20.0					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
 NOTE: UF 1984 COMPOSITE 0.33 mm / CPE 1994 COMPOSITE 0.29 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.: BR2 S#3
SAMPLE ELEV. (FT. NGVD): -51.5
SAMPLE DEPTH (FT.): -12.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 54.72
SAMPLE WEIGHT AFTER WASH (GRAMS): 53.80

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	.11	.20	99.80
10	-1.0	2.000	.26	.48	99.52
14	-0.5	1.400	.69	1.26	98.74
18	0.0	1.000	1.39	2.54	97.46
25	0.5	.710	3.03	5.54	94.46
35	1.0	.500	6.13	11.20	88.80
45	1.5	.355	11.04	20.18	79.82
60	2.0	.250	28.82	52.67	47.33
80	2.5	.180	46.76	85.45	14.55
120	3.0	.125	53.19	97.20	2.80
170	3.5	.090	53.73	98.19	1.81
200	3.75	.075	53.74	98.21	1.79
230	4.0	.063	54.21	99.07	.93
PAN			54.67	99.91	.09

PHI(5): .41 PHI(16): 1.27 PHI(25): 1.57
PHI(50): 1.96 PHI(75): 2.34 PHI(84): 2.48
PHI(95): 2.91

SIEVE LOSS(g): .05 SILT/CLAY: 1.79%
SKEWNESS: -.601 KURTOSIS: 1.335

GRAPHIC METHOD

MEAN (PHI): 1.80 SORTING: .61
MEAN (mm): .29 MEDIAN (mm): .26

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.86 SORTING: .74
MEAN (mm): .28

DATA FILE NAME: B:VC2S#3.TAB

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

SAMPLE NO.: BR2 S#4
SAMPLE ELEV. (FT. NGVD): -54.0
SAMPLE DEPTH (FT.): -15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 62.96
SAMPLE WEIGHT AFTER WASH (GRAMS): 62.00

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	.08	.13	99.87
7	-1.5	2.800	.25	.40	99.60
10	-1.0	2.000	.70	1.11	98.89
14	-0.5	1.400	1.50	2.38	97.62
18	0.0	1.000	2.79	4.43	95.57
25	0.5	.710	5.26	8.35	91.65
35	1.0	.500	9.95	15.80	84.20
45	1.5	.355	16.57	26.32	73.68
60	2.0	.250	37.36	59.34	40.66
80	2.5	.180	55.24	87.74	12.26
120	3.0	.125	61.37	97.47	2.53
170	3.5	.090	61.90	98.32	1.68
200	3.75	.075	61.93	98.36	1.64
230	4.0	.063	62.42	99.14	.86
PAN			62.91	99.92	.08

PHI(5): .07 PHI(16): 1.01 PHI(25): 1.44
PHI(50): 1.86 PHI(75): 2.28 PHI(84): 2.43
PHI(95): 2.87

SIEVE LOSS(g): .05 SILT/CLAY: 1.64%
SKEWNESS: -.772 KURTOSIS: 1.369

GRAPHIC METHOD

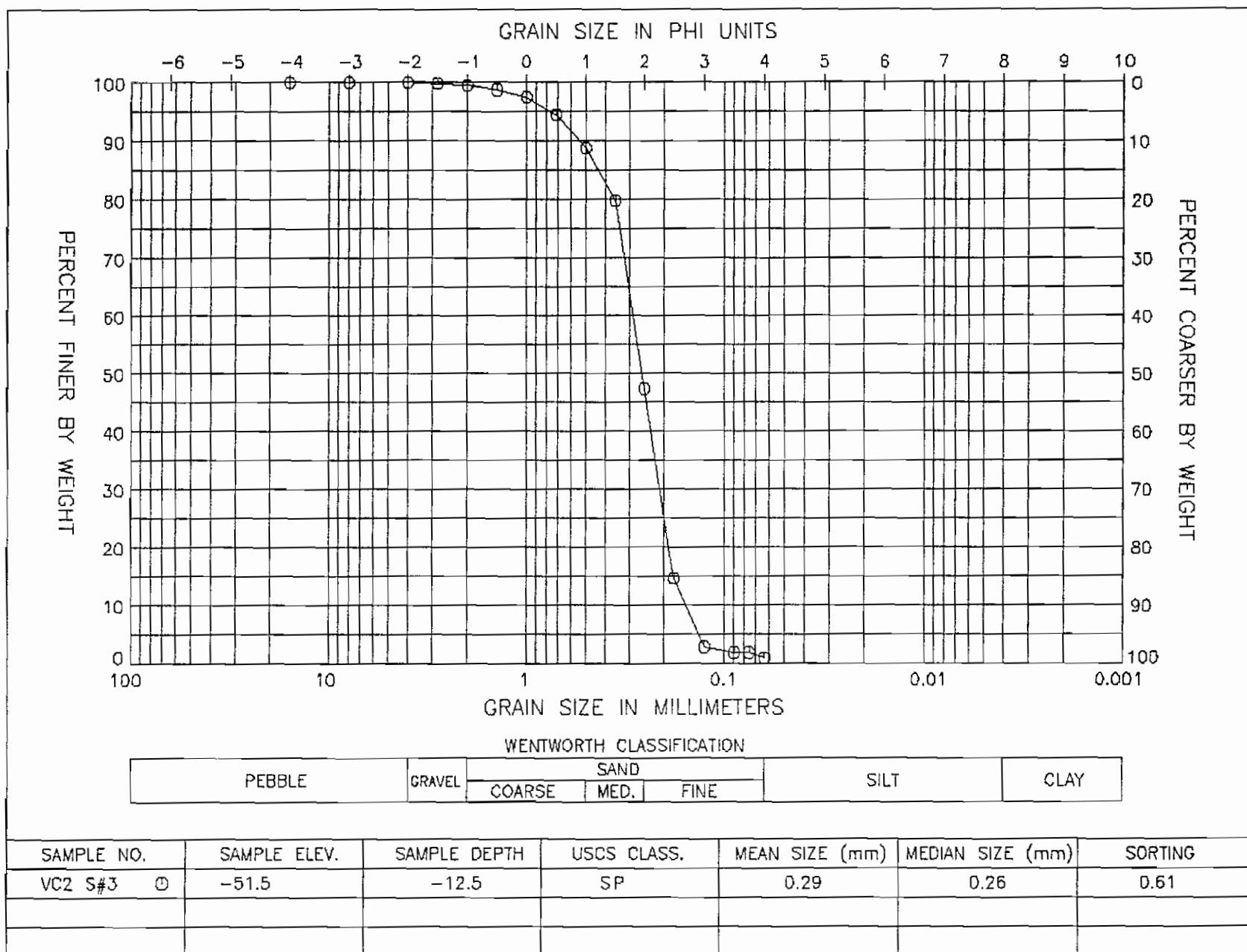
MEAN (PHI): 1.65 SORTING: .71
MEAN (mm) : .32 MEDIAN (mm): .28
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.72 SORTING: .84
MEAN (mm) : .30

DATA FILE NAME: B:VC2S#4.TAB

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



GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

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
VC2 S#4	54.0	15.0	SP	0.32	0.28	0.71

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC2 S#4 ④	-54.0	-15.0	SP	0.32	0.28	0.71