

VIBRACORE LOG							
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1984)</u>				CORE NO: <u>NBR - 19</u>			
COORDINATES: N = 739003 E = 807998		DATE: SEPT. 24, 1994 START TIME: 1034 END TIME: 1058		WATER DEPTH: 53.3 Ft. NGVD DRILLER: EXMAR CLIENT REP : M. ANDREWS			
CORE DIAMETER: 3.0"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 20.0'	53.3'	0.0					
PENETRATION DEPTH: 16.5'							
LENGTH RECOVERED: 15.3'							
PERCENT RECOVERED: 83 %							
LENGTH RETAINED : 15.3'	56.3'				_1 3.0'	2.20 Phi 0.22 mm 2.1 % SILT (SP)	
SUPPORT VESSEL: SEAWARD EXPLORER						CUT	
POSITIONING: DGPS		5.0		GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH			
MOTOROLA LGT 1000 / OMNISTAR DGPS							
WEATHER:							
WIND:							
DIR : SE							
SPEED : 5 - 10 Kt		61.3'			_2 8.0'	2.25 Phi 0.21 mm 2.4 % SILT (SP)	
WAVES:							
DIR : SE							
HEIGHT: 1 - 2 Ft.		10.0		GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH		CUT	
CURRENT:							
DIR : SOUTH							
SPEED : MODERATE							
ANALYSIS BY : MDA							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE		15.0					
SAND							
SHELLS		69.8'	16.5'				
CORAL FRAG.							
SHELL HASH							
ROCK			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#1
SAMPLE ELEV. (FT. NGVD): -56.3
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.33
SAMPLE WEIGHT AFTER WASH (GRAMS): 64.02

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	.21	.32	99.68
10	-1.0	2.000	.42	.64	99.36
14	-0.5	1.400	.82	1.26	98.74
18	0.0	1.000	1.17	1.79	98.21
25	0.5	.710	1.80	2.76	97.24
35	1.0	.500	3.38	5.17	94.83
45	1.5	.355	6.09	9.32	90.68
60	2.0	.250	18.35	28.09	71.91
80	2.5	.180	43.03	65.87	34.13
120	3.0	.125	61.50	94.14	5.86
170	3.5	.090	63.91	97.83	2.17
200	3.75	.075	63.96	97.90	2.10
230	4.0	.063	64.63	98.92	1.08
PAN			65.28	99.92	.08

PHI(5): .96	PHI(16): 1.68	PHI(25): 1.92
PHI(50): 2.29	PHI(75): 2.66	PHI(84): 2.82
PHI(95): 3.12		

SIEVE LOSS(g): .05	SILT/CLAY: 2.10%
SKEWNESS: -.499	KURTOSIS: 1.186

GRAPHIC METHOD

MEAN (PHI): 2.17	SORTING: .57
MEAN (mm) : .22	MEDIAN (mm): .20

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.20	SORTING: .71
MEAN (mm) : .22	

DATA FILE NAME: A:VC19S1.TAB

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

SAMPLE NO.: NBR19 S#2
SAMPLE ELEV. (FT. NGVD): -61.3
SAMPLE DEPTH (FT.): -8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 65.24
SAMPLE WEIGHT AFTER WASH (GRAMS): 63.73

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	.14	.21	99.79
10	-1.0	2.000	.27	.41	99.59
14	-0.5	1.400	.42	.64	99.36
18	0.0	1.000	.54	.83	99.17
25	0.5	.710	.93	1.43	98.57
35	1.0	.500	1.98	3.03	96.97
45	1.5	.355	4.40	6.74	93.26
60	2.0	.250	17.39	26.66	73.34
80	2.5	.180	42.42	65.02	34.98
120	3.0	.125	61.55	94.34	5.66
170	3.5	.090	63.59	97.47	2.53
200	3.75	.075	63.70	97.64	2.36
230	4.0	.063	64.47	98.83	1.17
PAN			65.24	100.00	.00

PHI(5): 1.26 PHI(16): 1.73 PHI(25): 1.96
PHI(50): 2.30 PHI(75): 2.67 PHI(84): 2.82
PHI(95): 3.10

SIEVE LOSS(g): .00 SILT/CLAY: 2.36%
SKEWNESS: -.239 KURTOSIS: 1.060

GRAPHIC METHOD

MEAN (PHI): 2.25 SORTING: .55
MEAN (mm) : .21 MEDIAN (mm): .20

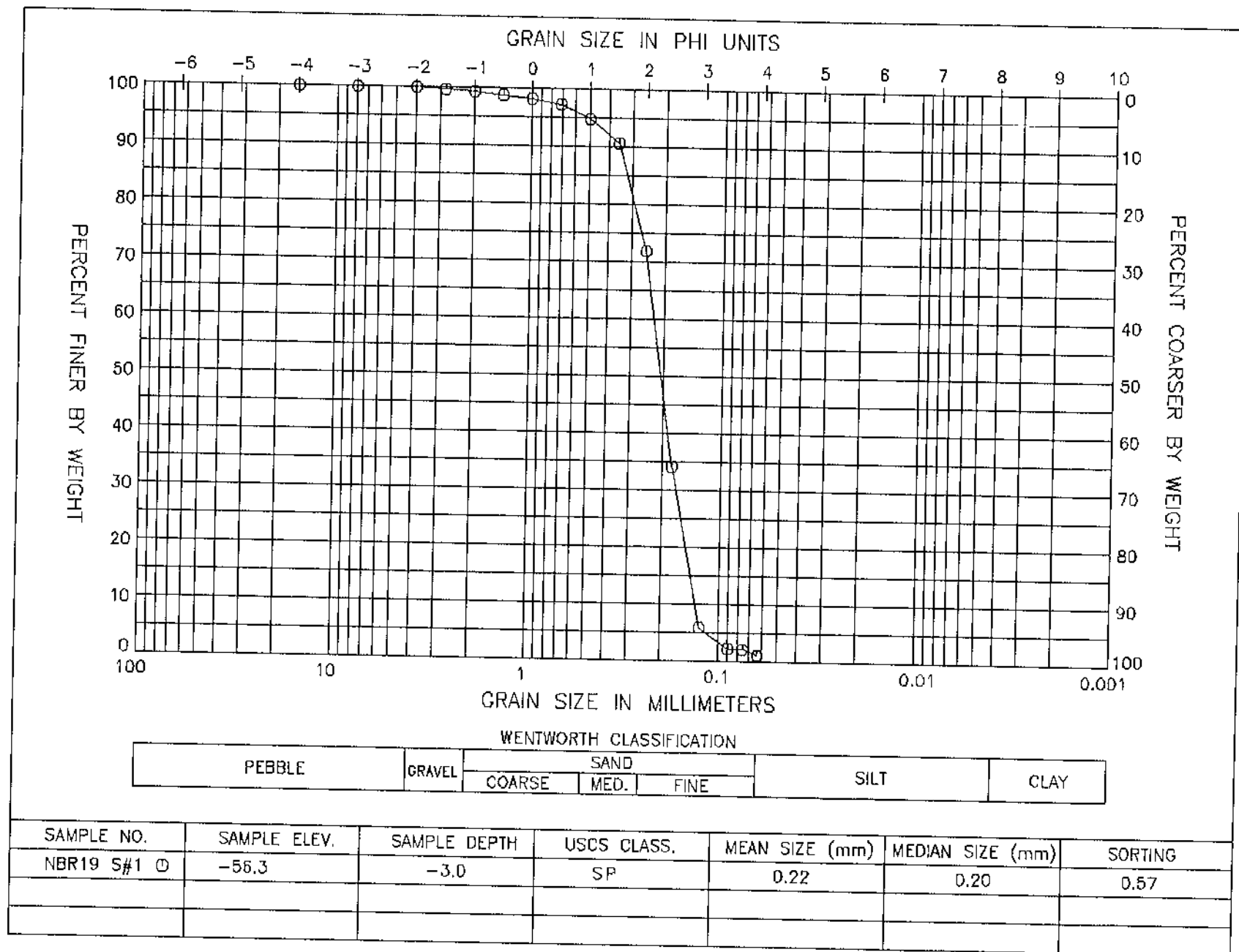
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.25 SORTING: .62
MEAN (mm) : .21

DATA FILE NAME: A:VC19S#2.TAB

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



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

