

VIBRACORE LOG

Project: <u>BOCA RATON INLET EBB SHOAL</u>		Core No: <u>BR- 5</u>	
Coordinates:	Date: <u>02-18-93</u>	Water Depth <u>14.0'</u> NGVD	
N = <u>729471</u>	Start Time <u>1655</u>	Driller <u>EXMAR</u>	
E = <u>805171</u>	End Time <u>1700</u>	Client Rep. <u>MDA/JLA</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>2.75"</u>		0				
Length of Barrel <u>11.5'</u>						
Penetration Depth <u>11.5'</u>						
Length Recovered <u>8.6'</u>						
Length Retained <u>8.6'</u>						
Remarks:						
Support Vessel <u>EXMAR BOAT</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind <u>NW</u>						
Dir: <u>NW</u>						
Est. Speed <u>5 TO 10 Kt.</u>						
Waves <u>NW</u>						
Dir: <u>NW</u>						
Height <u>1 TO 2 Ft.</u>						
Current <u>NA</u>						
Dir: <u>NA</u>						
Est. Speed: _____						
Analysis By: <u>MDA</u>						
Date: <u>03-05-93</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>						
		2.5		LT. GRAY, MED. GRAIN QZ SAND WITH SHELL HASH AND 1 SHELL	(10) 0.9	
		5.0		LT. GRAY, MEDIUM GRAIN QZ SAND BROWN, MED. GRAIN QZ SAND WITH SHELL HASH		
		7.5		GRAY, MEDIUM GRAIN QZ SAND	(11) 7.6	
		10.0				

GRADATION ANALYSIS REPORT
BOCA INLET EBB SHOAL 02-18-93

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #5
SAMPLE ELEV. (FT. NGVD): -15.10
SAMPLE DEPTH (FT.): 0.9
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 202.65
SAMPLE WEIGHT AFTER WASH (GRAMS): 202.45

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	3.15	1.55	98.45
5	-2.0	4.000	10.50	5.18	94.82
7	-1.5	2.800	14.30	7.06	92.94
10	-1.0	2.000	17.40	8.59	91.41
14	-0.5	1.400	22.20	10.95	89.05
18	0.0	1.000	28.80	14.21	85.79
25	0.5	.710	46.25	22.82	77.18
35	1.0	.500	101.90	50.28	49.72
45	1.5	.355	151.20	74.61	25.39
60	2.0	.250	199.25	98.32	1.68
80	2.5	.180	201.10	99.24	.76
120	3.0	.125	202.20	99.78	.22
170	3.5	.090	202.20	99.78	.22
200	3.75	.075	202.20	99.78	.22
230	4.0	.063	202.30	99.83	.17
PAN			202.40	99.88	.12

SIEVE LOSS(g): .25
MEDIAN (mm): .502
SILT/CLAY: .22%
SKEWNESS: -2.110
MEAN (mm): .690
SORTING: .797
KURTOSIS: 1.684

PHI(5): -2.05 PHI(16): .10 PHI(25): .54
PHI(50): .99 PHI(75): 1.51 PHI(84): 1.70
PHI(95): 1.93
COEFFICIENT OF CURVATURE : .887
COEFFICIENT OF UNIFORMITY: 2.016

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#5-#10.TAB

GRADATION ANALYSIS REPORT
BOCA INLET EBB SHOAL 02-18-93

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #5
SAMPLE ELEV. (FT. NGVD): -21.8
SAMPLE DEPTH (FT.): 7.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 196.85
SAMPLE WEIGHT AFTER WASH (GRAMS): 195.05

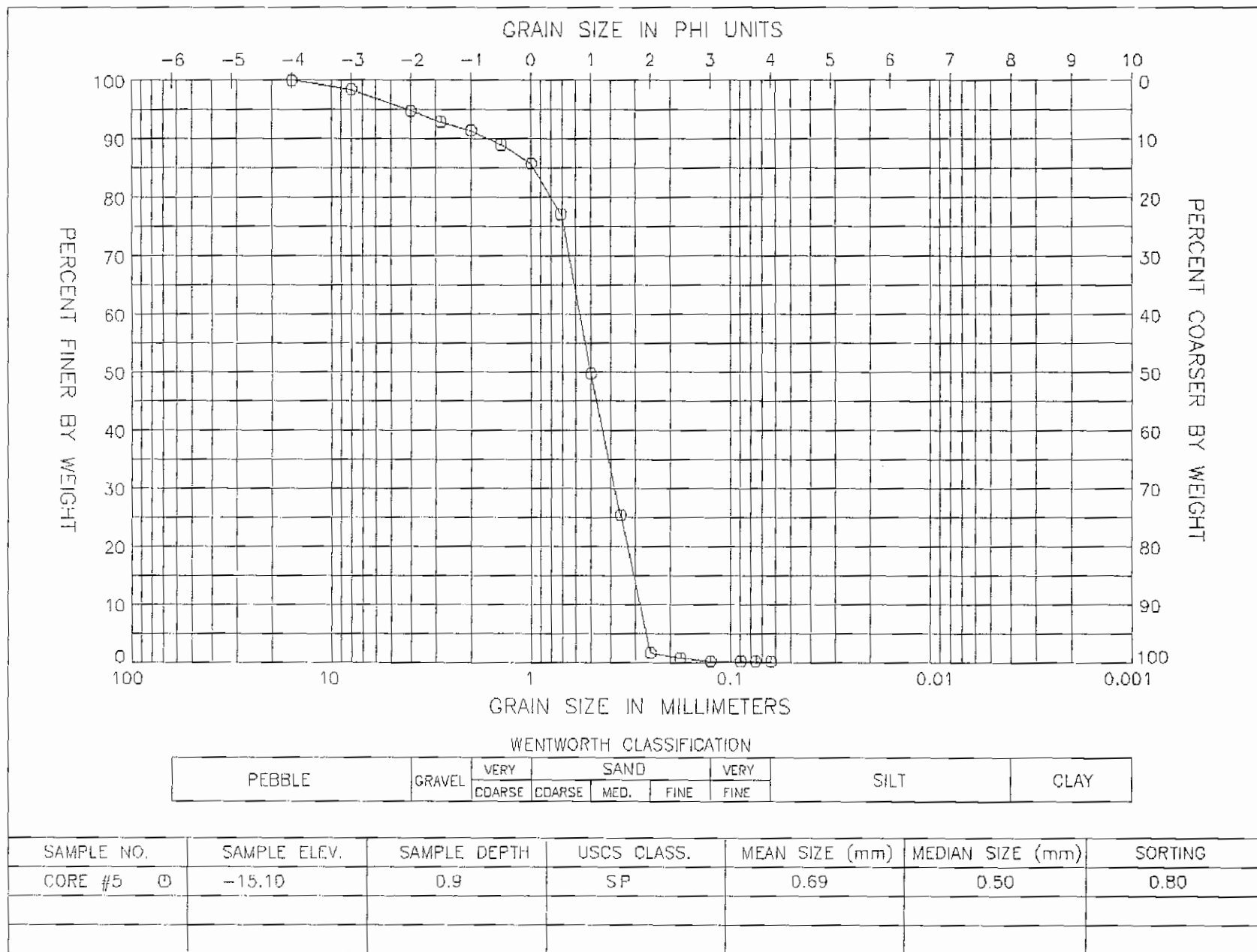
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.15	.08	99.92
7	-1.5	2.800	.55	.28	99.72
10	-1.0	2.000	1.15	.58	99.42
14	-0.5	1.400	2.95	1.50	98.50
18	0.0	1.000	6.60	3.35	96.65
25	0.5	.710	16.95	8.61	91.39
35	1.0	.500	47.45	24.10	75.90
45	1.5	.355	81.55	41.43	58.57
60	2.0	.250	142.05	72.16	27.84
80	2.5	.180	183.70	93.32	6.68
120	3.0	.125	194.25	98.68	1.32
170	3.5	.090	194.75	98.93	1.07
200	3.75	.075	194.80	98.96	1.04
230	4.0	.063	195.75	99.44	.56
PAN			196.65	99.90	.10

SIEVE LOSS(g):	.20	MEAN (mm):	.355
MEDIAN (mm):	.321	SORTING:	.771
SILT/CLAY:	1.04%	KURTOSIS:	.984
SKEWNESS:	-.466		

PHI(5):	.16	PHI(16):	.74	PHI(25):	1.03
PHI(50):	1.64	PHI(75):	2.07	PHI(84):	2.28
PHI(95):	2.66				
COEFFICIENT OF CURVATURE :	.966				
COEFFICIENT OF UNIFORMITY:	1.949				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#5-#11.TAB

GRAIN SIZE DISTRIBUTION CURVE
BOCA INLET EBB SHOAL 2/18/93



GRAIN SIZE DISTRIBUTION CURVE
BOCA INLET EBB SHOAL 2/18/93

