

VIBRACORE LOG

| | | | |
|--|------------------------|----------------------------|------|
| Project: <u>BOCA RATON INLET EBB SHOAL</u> | | Core No: <u>BR-6</u> | |
| Coordinates: | Date: <u>02-18-93</u> | Water Depth <u>8.0'</u> | NGVD |
| N = <u>728544</u> | Start Time <u>1720</u> | Driller <u>EXMAR</u> | |
| E = <u>804853</u> | End Time <u>1725</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>7.2'</u> | | | | | | |
| Length Retained <u>7.2'</u> | | | | | | |
| Remarks: | | | | | | |
| Support Vessel <u>EXMAR BOAT</u> | | | | | | |
| Positioning System <u>TRISPONDER</u> | | | | | | |
| Positioning Remarks: | | | | | | |
| Weather <u>CLEAR</u> | | | | | | |
| Wind | | | | | | |
| Dir: <u>NW</u> | | | | | | |
| Est. Speed <u>5 TO 10 Kt.</u> | | | | | | |
| Waves | | | | | | |
| Dir: <u>NW</u> | | | | | | |
| Height <u>1 TO 2 Ft.</u> | | | | | | |
| Current | | | | | | |
| 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> | | | | | | |
| | | 10.0 | | | | |

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

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #6
SAMPLE ELEV. (FT. NGVD): -10.1
SAMPLE DEPTH (FT.): 1.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 207.40
SAMPLE WEIGHT AFTER WASH (GRAMS): 206.20

| 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 | .00 | .00 | 100.00 |
| 10 | -1.0 | 2.000 | .00 | .00 | 100.00 |
| 14 | -0.5 | 1.400 | .05 | .02 | 99.98 |
| 18 | 0.0 | 1.000 | .10 | .05 | 99.95 |
| 25 | 0.5 | .710 | .40 | .19 | 99.81 |
| 35 | 1.0 | .500 | 3.90 | 1.88 | 98.12 |
| 45 | 1.5 | .355 | 14.75 | 7.11 | 92.89 |
| 60 | 2.0 | .250 | 71.10 | 34.28 | 65.72 |
| 80 | 2.5 | .180 | 163.20 | 78.69 | 21.31 |
| 120 | 3.0 | .125 | 203.80 | 98.26 | 1.74 |
| 170 | 3.5 | .090 | 206.10 | 99.37 | .63 |
| 200 | 3.75 | .075 | 206.15 | 99.40 | .60 |
| 230 | 4.0 | .063 | 206.77 | 99.70 | .30 |
| PAN | | | 207.40 | 100.00 | .00 |

| | | | |
|-----------------|-------|------------|-------|
| SIEVE LOSS (g): | .00 | MEAN (mm): | .227 |
| MEDIAN (mm): | .221 | SORTING: | .486 |
| SILT/CLAY: | .60% | KURTOSIS: | 1.054 |
| SKEWNESS: | -.139 | | |

| | | | | | |
|----------------------------|-------|----------|------|----------|------|
| PHI(5): | 1.30 | PHI(16): | 1.66 | PHI(25): | 1.83 |
| PHI(50): | 2.18 | PHI(75): | 2.46 | PHI(84): | 2.64 |
| PHI(95): | 2.92 | | | | |
| COEFFICIENT OF CURVATURE : | 1.035 | | | | |
| COEFFICIENT OF UNIFORMITY: | 1.652 | | | | |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#6-#12.TAB

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

TESTED BY: MDA ON: 03-09-93

SAMPLE NO.: CORE #6
SAMPLE ELEV. (FT. NGVD): -13.8
SAMPLE DEPTH (FT.): 5.3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 195.60
SAMPLE WEIGHT AFTER WASH (GRAMS): 192.25

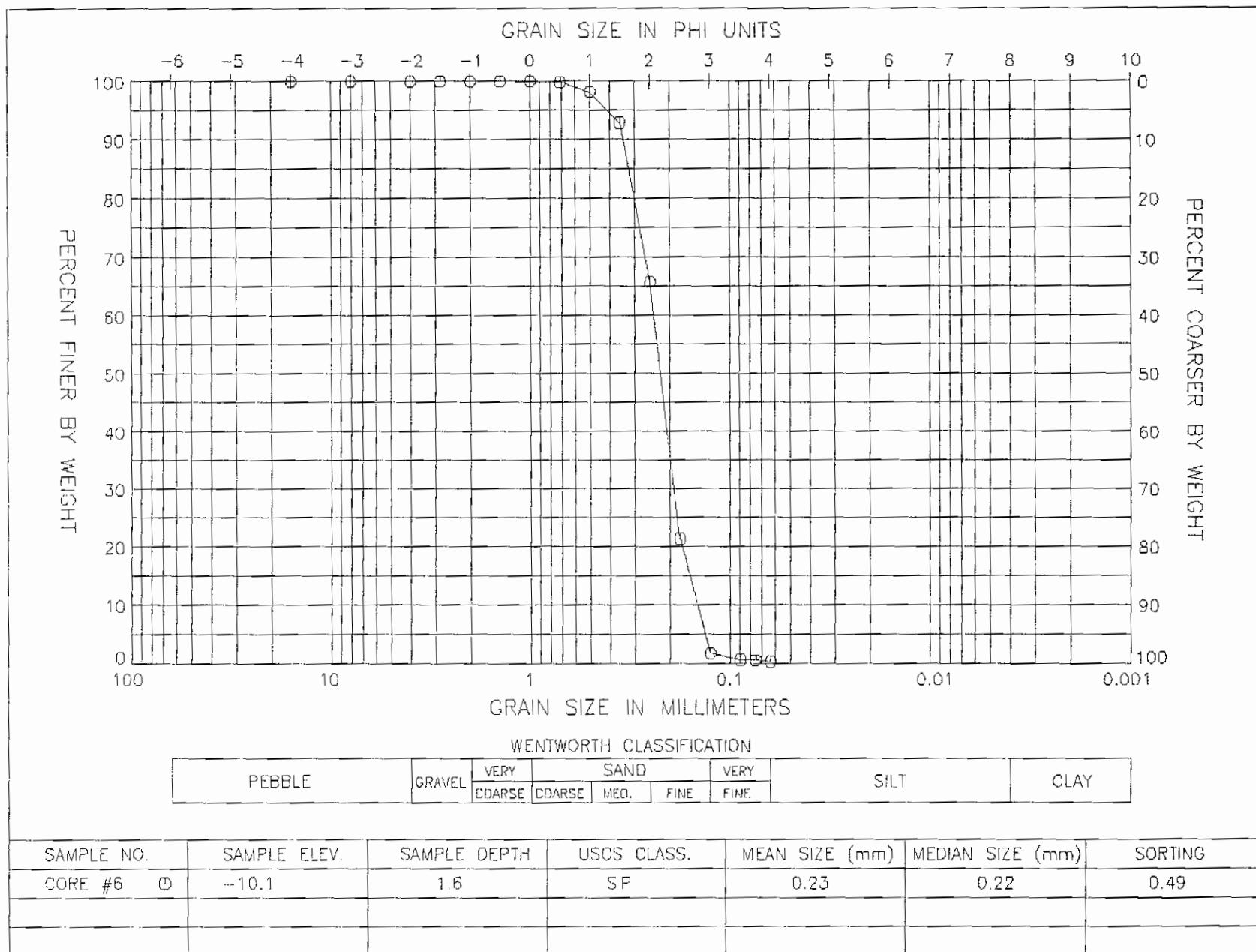
| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8 | -4.0 | 16.000 | .00 | .00 | 100.00 |
| 5/16 | -3.0 | 8.000 | .00 | .00 | 100.00 |
| 5 | -2.0 | 4.000 | .00 | .00 | 100.00 |
| 7 | -1.5 | 2.800 | .20 | .10 | 99.90 |
| 10 | -1.0 | 2.000 | .70 | .36 | 99.64 |
| 14 | -0.5 | 1.400 | 1.65 | .84 | 99.16 |
| 18 | 0.0 | 1.000 | 3.50 | 1.79 | 98.21 |
| 25 | 0.5 | .710 | 8.75 | 4.47 | 95.53 |
| 35 | 1.0 | .500 | 29.10 | 14.88 | 85.12 |
| 45 | 1.5 | .355 | 58.70 | 30.01 | 69.99 |
| 60 | 2.0 | .250 | 124.00 | 63.39 | 36.61 |
| 80 | 2.5 | .180 | 175.70 | 89.83 | 10.17 |
| 120 | 3.0 | .125 | 190.90 | 97.60 | 2.40 |
| 170 | 3.5 | .090 | 192.10 | 98.21 | 1.79 |
| 200 | 3.75 | .075 | 192.15 | 98.24 | 1.76 |
| 230 | 4.0 | .063 | 193.87 | 99.12 | .88 |
| PAN | | | 195.60 | 100.00 | .00 |

| | | | |
|----------------|-------|------------|-------|
| SIEVE LOSS(g): | .00 | MEAN (mm): | .304 |
| MEDIAN (mm): | .287 | SORTING: | .676 |
| SILT/CLAY: | 1.76% | KURTOSIS: | 1.069 |
| SKEWNESS: | -.241 | | |

| | | | | | |
|----------------------------|-------|----------|------|----------|------|
| PHI(5): | .53 | PHI(16): | 1.04 | PHI(25): | 1.33 |
| PHI(50): | 1.80 | PHI(75): | 2.22 | PHI(84): | 2.39 |
| PHI(95): | 2.83 | | | | |
| COEFFICIENT OF CURVATURE : | .940 | | | | |
| COEFFICIENT OF UNIFORMITY: | 1.817 | | | | |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#6-#13.TAB

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



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

