

VIBRACORE LOG

| | | | |
|--|------------------------|------------------------------------|-----------------------------|
| Project: <u>CAPTIVA ISLAND, PHASE II</u> | | Core No: <u>C-5</u> | |
| Coordinates: | | Date: <u>12/2/90</u> | Water Depth <u>27'</u> NGVD |
| N = <u>781524</u> | Start Time <u>1418</u> | Driller <u>RODNEY MEYER</u> | |
| E = <u>430545</u> | End Time _____ | Client Rep. <u>JEFF L. ANDREWS</u> | |

| | Elev. | Depth | Legend | Description | Samp. No. | Remarks |
|--------------------------------------|--------|-------|--------|------------------|-----------|---------|
| Core Diam. <u>3"</u> | -27.0' | 0 | | GREY SILTY SHELL | | |
| Length of Barrel <u>20'</u> | -27.6' | .6 | | HASH | (1) | |
| Penetration Depth <u>5'</u> | | | | GREY SILTY FINE | 1.0' | SM |
| Length Recovered <u>3.2'</u> | | | | SANDS, QUARTZ | (-28) | |
| Length Retained <u>3.2'</u> | | | | 4/5 SHELL | | |
| Remarks: | | | | FRAGMENTS & | | |
| <u>REFUSAL AT 5.0' TIP OF BIT</u> | -30.2' | 3.2 | | HASH | | |
| <u>BENT-OVER.</u> | | 5 | | DARK GREY | | |
| | | | | CEMENTED | | |
| | | | | SHELL AT BASE | | |
| Support Vessel <u>DANIELLE MARIE</u> | | 10 | | | | |
| Positioning System <u>TRISponder</u> | | | | | | |
| Positioning Remarks: | | | | | | |
| Weather <u>CLEAR</u> | | 15 | | | | |
| Wind | | | | | | |
| Dir: <u>NE</u> | | | | | | |
| Est. Speed <u>10-15 KTS.</u> | | | | | | |
| Waves | | | | | | |
| Dir: <u>NE</u> | | | | | | |
| Height <u>1'-2' CALM-CHOP</u> | | | | | | |
| Current | | | | | | |
| Dir: <u>SOUTH</u> | | | | | | |
| Est. Speed: <u>N/A</u> | | | | | | |
| Analysis By: <u>KEN JACKSON</u> | | 20 | | | | |
| Date: <u>DEC. 20-27, 1990</u> | | | | | | |
| Analysis Method: | | | | | | |
| <u>VISUAL LOG</u> | | | | | | |
| <u>MECHANICAL SIEVE</u> | | | | | | |

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ DN: DEC.1990

SAMPLE NO.: C-5
SAMPLE ELEV. (FT. NGVD): -28.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 215.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 178.35

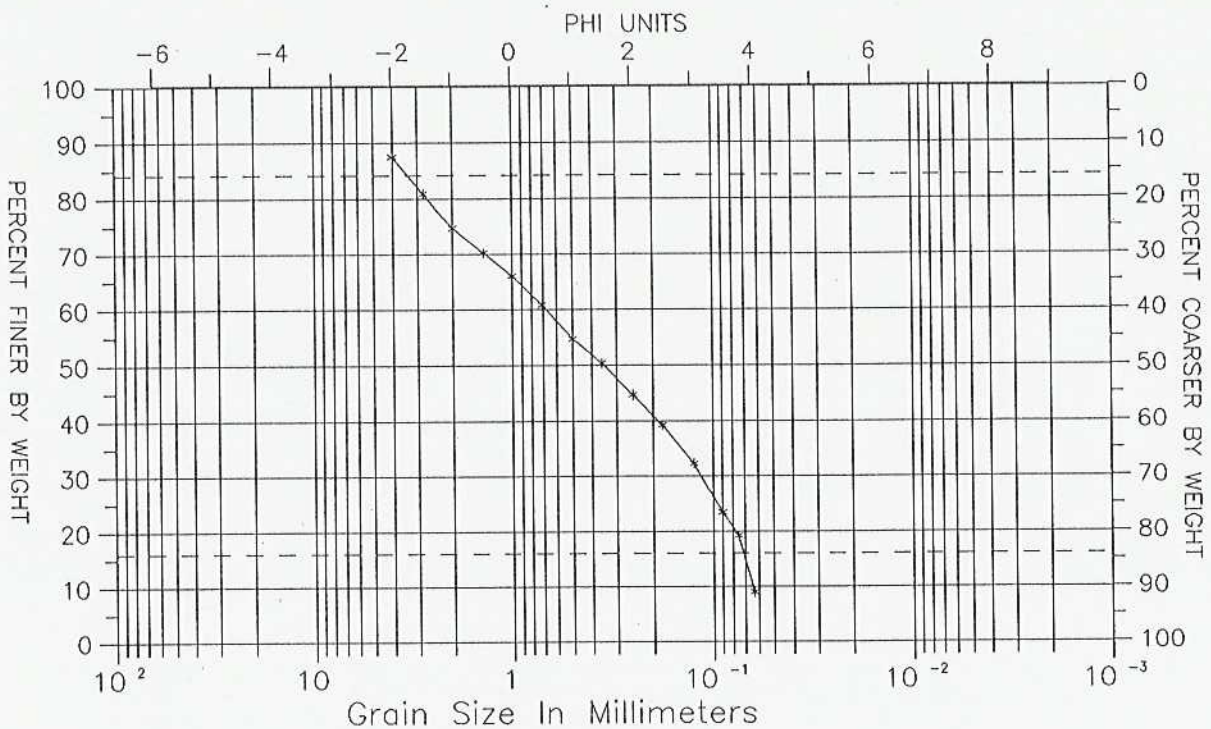
| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5 | -2.0 | 4.000 | 27.00 | 12.56 | 87.44 |
| 7 | -1.5 | 2.800 | 41.10 | 19.12 | 80.88 |
| 10 | -1.0 | 2.000 | 54.30 | 25.26 | 74.74 |
| 14 | -0.5 | 1.400 | 64.05 | 29.79 | 70.21 |
| 18 | 0.0 | 1.000 | 73.10 | 34.00 | 66.00 |
| 25 | 0.5 | .710 | 84.30 | 39.21 | 60.79 |
| 35 | 1.0 | .500 | 97.40 | 45.30 | 54.70 |
| 45 | 1.5 | .355 | 106.80 | 49.67 | 50.33 |
| 60 | 2.0 | .250 | 118.95 | 55.33 | 44.67 |
| 80 | 2.5 | .180 | 130.60 | 60.74 | 39.26 |
| 120 | 3.0 | .125 | 145.70 | 67.77 | 32.23 |
| 170 | 3.5 | .090 | 164.60 | 76.56 | 23.44 |
| 200 | 3.75 | .075 | 173.70 | 80.79 | 19.21 |
| 230 | 4.0 | .063 | 195.38 | 90.87 | 9.13 |
| PAN | | | 215.00 | 100.00 | .00 |

| | | | |
|----------------|--------|------------|-------|
| SIEVE LOSS(g): | .00 | MEAN (mm): | .490 |
| MEDIAN (mm): | .347 | SORTING: | 2.784 |
| SILT/CLAY: | 19.21% | KURTOSIS: | .618 |
| SKEWNESS: | -1.531 | | |

| | | |
|---------------|----------------|----------------|
| PHI(5): -2.58 | PHI(16): -1.74 | PHI(25): -1.02 |
| PHI(50): 1.53 | PHI(75): 3.41 | PHI(84): 3.83 |
| PHI(95): 4.10 | | |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:51.TAB

CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



WENTWORTH CLASSIFICATION

| PEBBLE | GRAVEL | SAND | | | | | SILT | CLAY |
|--------|--------|----------|--------|--------|------|---------|------|------|
| | | V. COAR. | COARSE | MEDIUM | FINE | V. FINE | | |

SAMPLE NO.

CLASSIFICATION

| C-5 | 1.0 | MEAN | MEDIAN | SORTING | USCS |
|-----------|-----|------|--------|---------|------|
| DEC. 1990 | | .490 | .347 | 2.783 | SM |
| | | | | | |
| | | | | | |