

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-4</u>	
Coordinates:	Date: <u>11/29/90</u>	Water Depth <u>23'</u> NGVD	
N = <u>778773.4</u>	Start Time <u>1108</u>	Driller <u>RODNEY MEYER</u>	
E = <u>434691.2</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-23.0'	0				
Length of Barrel <u>20'</u>						
Penetration Depth <u>18'</u>						
Length Recovered <u>15.5'</u>						
Length Retained <u>15.5'</u>						
Remarks:	-26.0'				(1) 3.0 (-26)	SM
Support Vessel <u>DANIELLE MARIE</u>		5		GREY, SILTY FINE QUARTZ SANDS, w/ SHELL FRAGMENTS AND HASH		
Positioning System <u>TRISponder</u>		10				
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind						
Dir: <u>ESE</u>						
Est. Speed <u>5-10 KTS</u>						
Waves						
Dir: <u>SOUTH</u>						
Height <u>1'-1 1/2 CALM</u>	-35.3'	12.3		WHITE, SILTY CEMENTED SHELL & LIMESTONE w/SHELL FRAGMENTS		
Current						
Dir: <u>NE</u>		15				
Est. Speed: <u>N/A</u>	-38.5'	15.5				
Analysis By: <u>KEN JACKSON</u>						
Date: <u>DEC. 20-27, 1990</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>		20				

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-4
SAMPLE ELEV. (FT. NGVD): -26.0
SAMPLE DEPTH (FT.): 3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 218.90
SAMPLE WEIGHT AFTER WASH (GRAMS): 150.70

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	16.90	7.72	92.28
7	-1.5	2.800	27.70	12.65	87.35
10	-1.0	2.000	41.60	19.00	81.00
14	-0.5	1.400	52.80	24.12	75.88
18	0.0	1.000	62.05	28.35	71.65
25	0.5	.710	72.00	32.89	67.11
35	1.0	.500	80.00	36.55	63.45
45	1.5	.355	84.00	38.37	61.63
60	2.0	.250	88.10	40.25	59.75
80	2.5	.180	93.10	42.53	57.47
120	3.0	.125	103.90	47.46	52.54
170	3.5	.090	130.90	59.80	40.20
200	3.75	.075	145.40	66.42	33.58
230	4.0	.063	183.30	83.74	16.26
PAN			218.90	100.00	.00

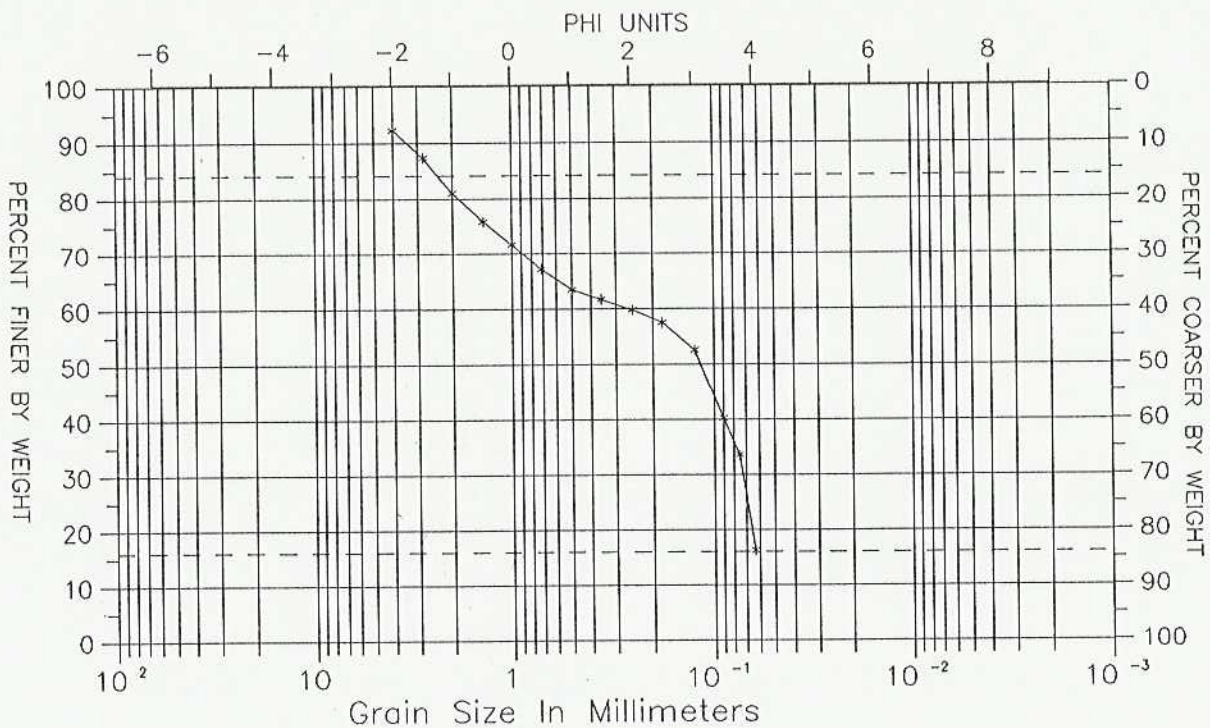
SIEVE LOSS(g): .00
MEDIAN (mm): .116
SILT/CLAY: 33.58%
SKEWNESS: -4.319

MEAN (mm): .341
SORTING: 2.620
KURTOSIS: .618

PHI(5): -2.28 PHI(16): -1.24 PHI(25): -.40
PHI(50): 3.10 PHI(75): 3.87 PHI(84): 4.00
PHI(95): 4.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:DIC4.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-4	3.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.341	.116	2.620	SM