

## VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-2</u>	
Coordinates:	Date: <u>12-2-90</u>	Water Depth <u>27.5'</u>	NGVD
N = <u>778276</u>	Start Time <u>1244</u>	Driller <u>RODNEY MEYER</u>	
E = <u>430612</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-27.5'	0				
Length of Barrel <u>20'</u>						
Penetration Depth <u>6'</u>						
Length Recovered <u>4.2'</u>	-29.5'			DARK GREY SILTY FINE QUARTZ SAND w/SHELL	(1)	SM
Length Retained <u>4.2'</u>				KRAL. & HASH	2.0' (-30)	
Remarks: <u>BIT SAMPLE CEMENTED SHELL &amp; LIMESTONE w/ GREY SILT</u>						
		3.0		DARK GREY SILTY CEMENTED SHELL		
	-31.7'	4.2		LIMESTONE		
		5				
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
		10				
Weather <u>CLEAR</u>						
Wind						
Dir: <u>N.E.</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>		15				
Est. Speed: <u>N/A</u>						
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      DN: DEC.1990

SAMPLE NO.: C-2  
SAMPLE ELEV. (FT. NGVD): -30.0  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 285.50  
SAMPLE WEIGHT AFTER WASH (GRAMS): 248.80

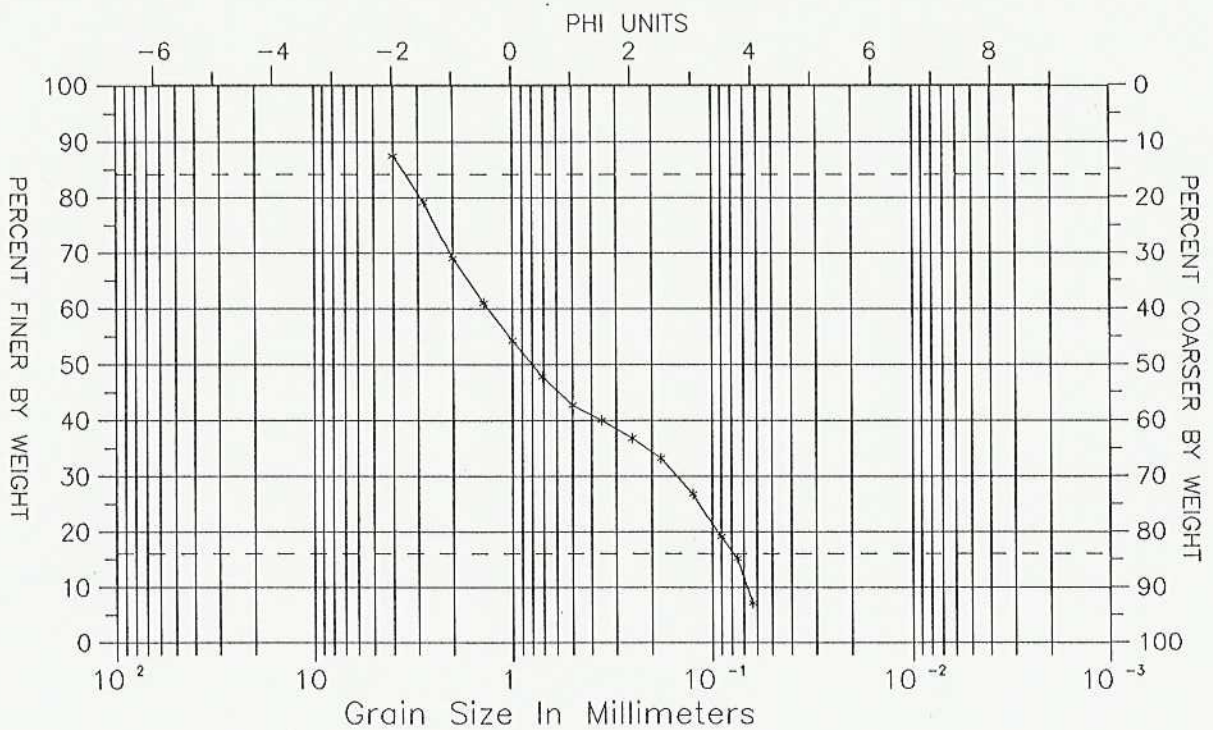
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	35.70	12.50	87.50
7	-1.5	2.800	59.55	20.86	79.14
10	-1.0	2.000	88.50	31.00	69.00
14	-0.5	1.400	111.50	39.05	60.95
18	0.0	1.000	130.50	45.71	54.29
25	0.5	.710	149.00	52.19	47.81
35	1.0	.500	163.40	57.23	42.77
45	1.5	.355	171.20	59.96	40.04
60	2.0	.250	180.35	63.17	36.83
80	2.5	.180	190.60	66.76	33.24
120	3.0	.125	209.00	73.20	26.80
170	3.5	.090	231.00	80.91	19.09
200	3.75	.075	242.30	84.87	15.13
230	4.0	.063	265.05	92.84	7.16
PAN			285.50	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.586
MEDIAN (mm):	.795	SORTING:	2.743
SILT/CLAY:	15.13%	KURTOSIS:	.605
SKEWNESS:	.957		

PHI(5): -2.45	PHI(16): -1.79	PHI(25): -1.30
PHI(50): .33	PHI(75): 3.12	PHI(84): 3.70
PHI(95): 4.07		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC2.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-2	2.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.586	.795	2.743	SM