

VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE II Core No: C-28

Coordinates:

N = 803571E = 430027Date: 12-3-90Start Time 1317

End Time _____

Water Depth 20 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-20	0		LIGHT GREY SILTY FINE QUARTZ SAND w/SHELL FRAGMENTS		
Length of Barrel <u>20'</u>		1.6		GREY SILTY FINE QUARTZ SAND w/SHELL HASH & FRAG.	(1) 3.0 (-23.0)	SM
Penetration Depth <u>14'</u>		5		WHITE FINE QUARTZ SAND w/CONSOLIDATED SHELL ROCK & SHELL FRAG.		
Length Recovered <u>9.9'</u>		5.7		WHITE FINE QUARTZ SAND w/SOME SHELL FRAG.		
Length Retained <u>9.9'</u>		7.8		WHITE SHELL FRAG. HASH w/SOME QUARTZ SAND		
Remarks:		9.0				
Support Vessel <u>DANIELLE MARIE</u>	-29.9	10 (9.9)				
Positioning System <u>TRIPONDER</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind						
Dir: <u>SE</u>						
Est. Speed <u>10-15 KTS</u>						
Waves						
Dir: <u>NW</u>						
Height <u>1'-2' 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: KDJ DN: DEC.1990

SAMPLE NO.: C-28
SAMPLE ELEV. (FT. NGVD): -23.0
SAMPLE DEPTH (FT.): 3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 310.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 251.50

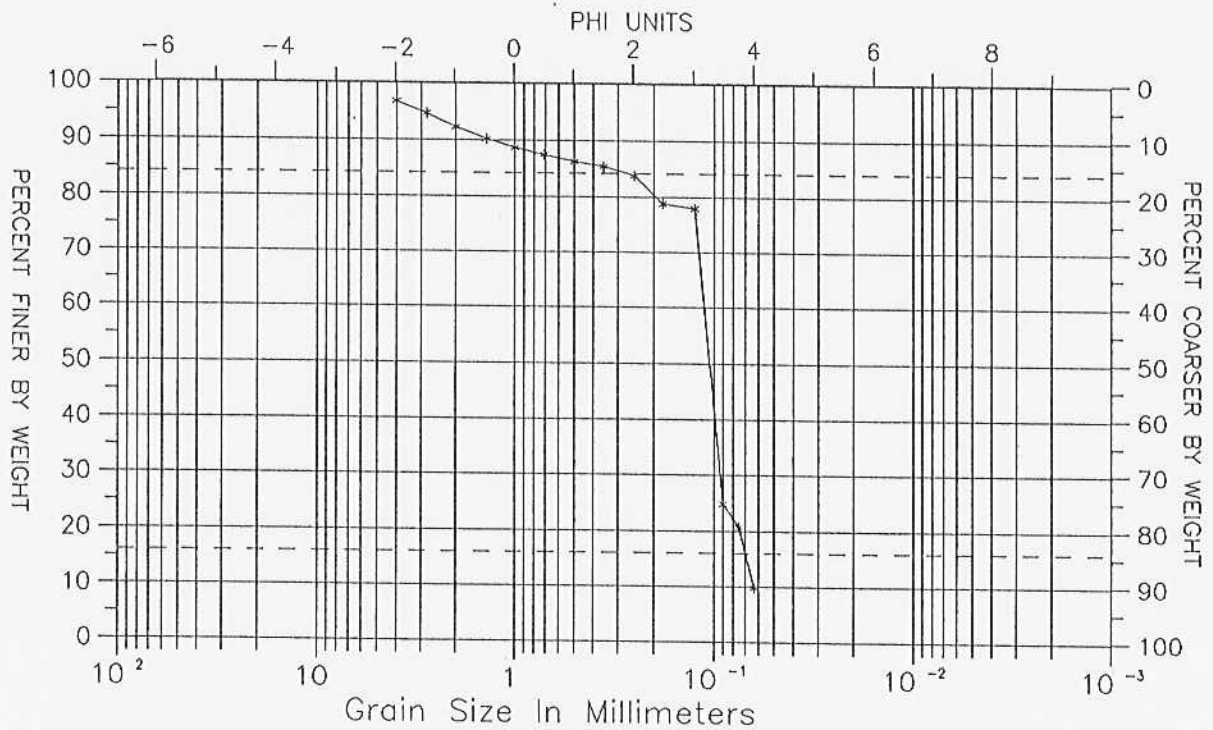
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	10.15	3.27	96.73
7	-1.5	2.800	16.30	5.32	94.68
10	-1.0	2.000	24.10	7.77	92.23
14	-0.5	1.400	30.50	9.84	90.16
18	0.0	1.000	35.20	11.35	88.65
25	0.5	.710	38.90	12.55	87.45
35	1.0	.500	42.60	13.74	86.26
45	1.5	.355	45.30	14.61	85.39
60	2.0	.250	50.30	16.23	83.77
80	2.5	.180	65.70	21.19	78.81
120	3.0	.125	68.20	22.00	78.00
170	3.5	.090	233.30	75.26	24.74
200	3.75	.075	245.65	79.24	20.76
230	4.0	.063	279.55	90.18	9.82
PAN			310.00	100.00	.00

SIEVE LOSS(g): .00
MEDIAN (mm): .104 MEAN (mm): .201
SILT/CLAY: 20.76% SORTING: .964
SKEWNESS: -3.994 KURTOSIS: 4.967

PHI(5): -1.58 PHI(16): 1.93 PHI(25): 3.03
PHI(50): 3.26 PHI(75): 3.50 PHI(84): 3.86
PHI(95): 4.11

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:283.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-28	3.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.201	.104	.964	SM