

## VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE IICore No: C-39

Coordinates:

N = 786449.4E = 422100.8Date: 12-4-90Start Time 0901End Time       Water Depth 25 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-25	0		LIGHT GREY FINE QUARTZ SAND W/ SOME SHELL FRAG.	(1) 1.5 (-26.5)	
Length of Barrel <u>20'</u>						
Penetration Depth <u>8.5'</u>						
Length Recovered <u>5.2</u>		2.5		LIGHT GREY FINE QUARTZ SAND W/ SHELL HASH	(2) 3.3 (-28.3)	
Length Retained <u>5.2</u>						
Remarks:						
WHITE SILTY LIMY CONOLIDATED SHELL ROCK IN BIT. SAMPLE NOT KEPT.		4.5		GREY SILTY QUARTZ SAND		
	-30.2	5.2		CONSOLIDATED SHELL ROCK		
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
Weather <u>CLEAR</u>		10				
Wind						
Dir: <u>SE</u>						
Est. Speed <u>0-5 KTS</u>						
Waves						
Dir: <u>NW</u>						
Height <u>1'-2'</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      QN: DEC.1990

SAMPLE NO.: C-39  
SAMPLE ELEV. (FT. NGVD): -26.5  
SAMPLE DEPTH (FT.): 1.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 230.10  
SAMPLE WEIGHT AFTER WASH (GRAMS): 207.10

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	3.60	1.56	98.44
7	-1.5	2.800	4.90	2.13	97.87
10	-1.0	2.000	6.55	2.85	97.15
14	-0.5	1.400	8.30	3.61	96.39
18	0.0	1.000	10.40	4.52	95.48
25	0.5	.710	13.40	5.82	94.18
35	1.0	.500	17.40	7.56	92.44
45	1.5	.355	21.10	9.17	90.83
60	2.0	.250	30.60	13.30	86.70
80	2.5	.180	56.50	24.55	75.45
120	3.0	.125	159.70	69.40	30.60
170	3.5	.090	198.50	86.27	13.73
200	3.75	.075	204.10	88.70	11.30
230	4.0	.063	217.80	94.65	5.35
PAN			230.10	100.00	.00

SIEVE LOSS(g): .00  
MEDIAN (mm): .145  
SILT/CLAY: 11.30%  
SKEWNESS: -1.369

MEAN (mm): .176  
SORTING: .656  
KURTOSIS: 2.375

PHI(5): .18      PHI(16): 2.12      PHI(25): 2.50  
PHI(50): 2.78      PHI(75): 3.17      PHI(84): 3.43  
PHI(95): 4.01

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:3915.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-39  
SAMPLE ELEV. (FT. NGVD): -28.3  
SAMPLE DEPTH (FT.): 3.3  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 272.50  
SAMPLE WEIGHT AFTER WASH (GRAMS): 245.60

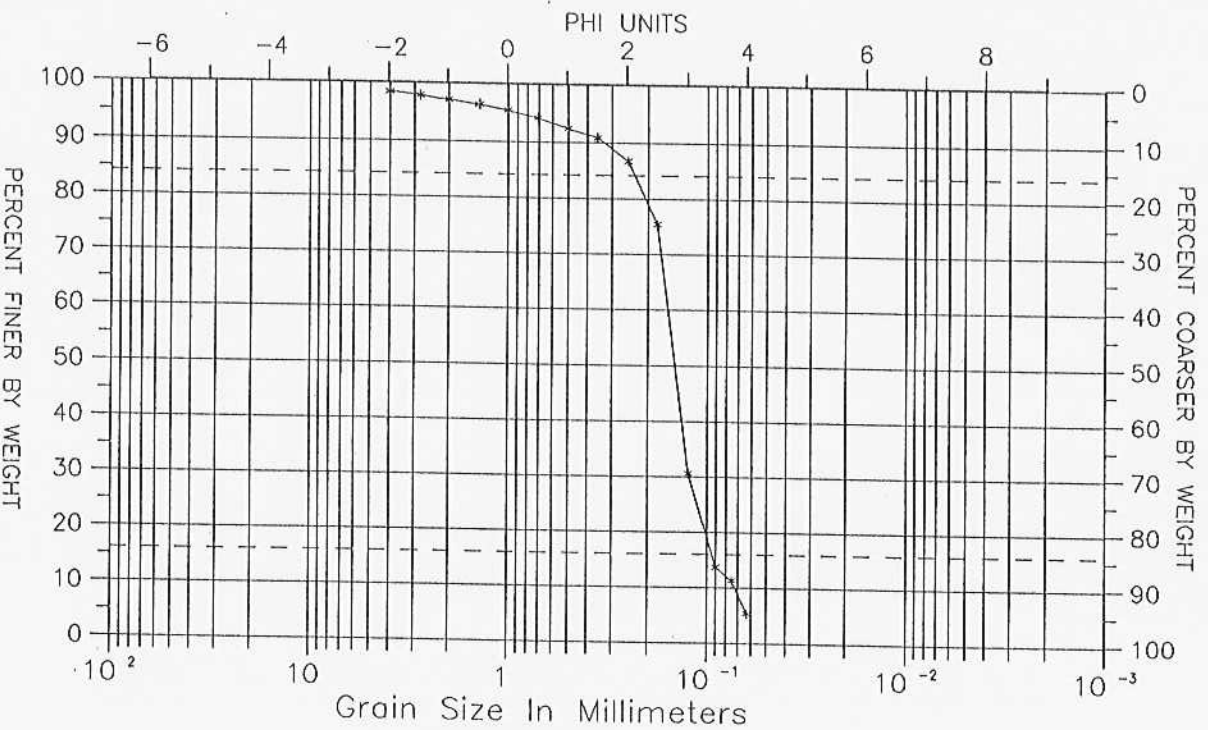
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	8.90	3.27	96.73
7	-1.5	2.800	16.60	6.09	93.91
10	-1.0	2.000	25.50	9.36	90.64
14	-0.5	1.400	34.70	12.73	87.27
18	0.0	1.000	42.80	15.71	84.29
25	0.5	.710	53.40	19.60	80.40
35	1.0	.500	66.30	24.33	75.67
45	1.5	.355	75.60	27.74	72.26
60	2.0	.250	91.10	33.43	66.57
80	2.5	.180	113.75	41.74	58.26
120	3.0	.125	178.40	65.47	34.53
170	3.5	.090	231.60	84.99	15.01
200	3.75	.075	240.80	88.37	11.63
230	4.0	.063	258.05	94.70	5.30
PAN			272.50	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.308
MEDIAN (mm):	.157	SORTING:	1.718
SILT/CLAY:	11.63%	KURTOSIS:	1.090
SKEWNESS:	-3.029		

PHI(5): -1.69	PHI(16): .04	PHI(25): 1.10
PHI(50): 2.67	PHI(75): 3.24	PHI(84): 3.47
PHI(95): 4.01		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC3933.TAB





WENTWORTH CLASSIFICATION								
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.		CLASSIFICATION			
C-39	1.5	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.176	.145	.656	SP-SM

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

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

