

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-38</u>	
Coordinates:	Date: <u>12-4-90</u>	Water Depth <u>23</u> NGVD	
N = <u>787545.1</u>	Start Time <u>0832</u>	Driller <u>RODNEY MEYER</u>	
E = <u>421756.5</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u> Length of Barrel <u>20'</u> Penetration Depth <u>6.9'</u> Length Recovered <u>6.5'</u> Length Retained <u>6.5'</u> Remarks: <u>BIT SAMPLE HAD LIGHT GREY QUARTZ SAND w/ABUNDANT SHELLHASH AND SOME SHELL FRAGMENTS. SAMPLE KEPT.</u>	-23	0		LIGHT GREY FINE SAND (QUARTZ) w/SHELL HASH & FRAGMENTS	(1) 2.0 (-25)	SP-SM
Support Vessel <u>DANIELLE MARIE</u> Positioning System <u>TRIPUNDER</u> Positioning Remarks: _____	-29.5	6.5			(2) 5.0 (-28)	SM
Weather <u>CLEAR</u> 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> Est. Speed: <u>N/A</u>		10				
Analysis By: <u>KEN JACKSON</u> Date: <u>DEC. 20-27, 1990</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>		15				
		20				

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-38
SAMPLE ELEV. (FT. NGVD): -25
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 305.20
SAMPLE WEIGHT AFTER WASH (GRAMS): 277.30

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	13.80	4.52	95.48
7	-1.5	2.800	17.10	5.60	94.40
10	-1.0	2.000	20.00	6.55	93.45
14	-0.5	1.400	23.20	7.60	92.40
18	0.0	1.000	25.90	8.49	91.51
25	0.5	.710	29.20	9.57	90.43
35	1.0	.500	32.80	10.75	89.25
45	1.5	.355	35.70	11.70	88.30
60	2.0	.250	45.60	14.94	85.06
80	2.5	.180	108.50	35.55	64.45
120	3.0	.125	238.40	78.11	21.89
170	3.5	.090	266.20	87.22	12.78
200	3.75	.075	272.10	89.15	10.85
230	4.0	.063	289.45	94.84	5.16
PAN			305.20	100.00	.00
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SIEVE LOSS(g):		.00			
MEDIAN (mm):		.157	MEAN (mm): .242		
SILT/CLAY:		10.85%	SORTING: .649		
SKEWNESS:		-3.111	KURTOSIS: 3.296		
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PHI(5): -1.78		PHI(16): 2.03	PHI(25): 2.24		
PHI(50): 2.67		PHI(75): 2.96	PHI(84): 3.32		
PHI(95): 4.01					

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC382.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-38
SAMPLE ELEV. (FT. NGVD): -28.0
SAMPLE DEPTH (FT.): 5.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 268.70
SAMPLE WEIGHT AFTER WASH (GRAMS): 238.40

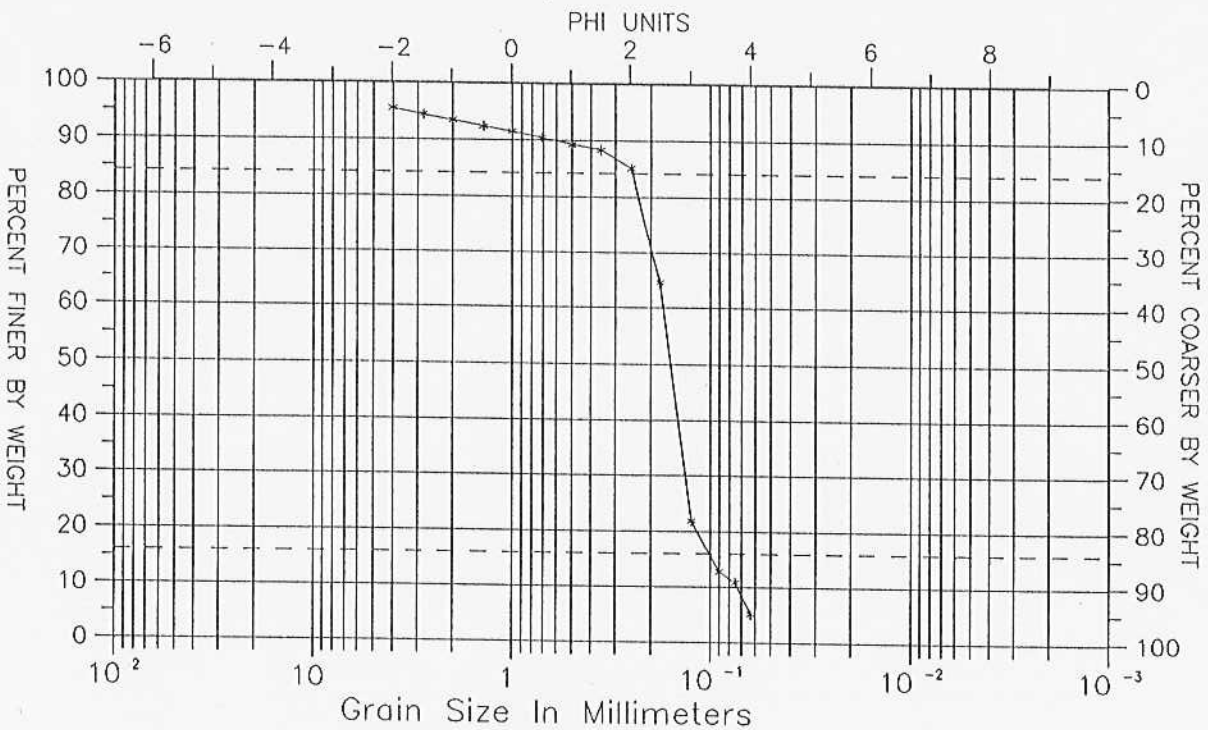
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	2.30	.86	99.14
7	-1.5	2.800	3.60	1.34	98.66
10	-1.0	2.000	5.40	2.01	97.99
14	-0.5	1.400	7.70	2.87	97.13
18	0.0	1.000	9.80	3.65	96.35
25	0.5	.710	12.90	4.80	95.20
35	1.0	.500	16.90	6.29	93.71
45	1.5	.355	19.80	7.37	92.63
60	2.0	.250	25.40	9.45	90.55
80	2.5	.180	37.40	13.92	86.08
120	3.0	.125	137.60	51.21	48.79
170	3.5	.090	217.00	80.76	19.24
200	3.75	.075	232.80	86.64	13.36
230	4.0	.063	252.35	93.92	6.08
PAN			268.70	100.00	.00

SIEVE LOSS(g):	.00	
MEDIAN (mm):	.126	MEAN (mm): .149
SILT/CLAY:	13.36%	SORTING: .555
SKEWNESS:	-1.363	KURTOSIS: 1.886

PHI(5): .57	PHI(16): 2.53	PHI(25): 2.65
PHI(50): 2.98	PHI(75): 3.40	PHI(84): 3.64
PHI(95): 4.04		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC385.TAB

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



WENTWORTH CLASSIFICATION

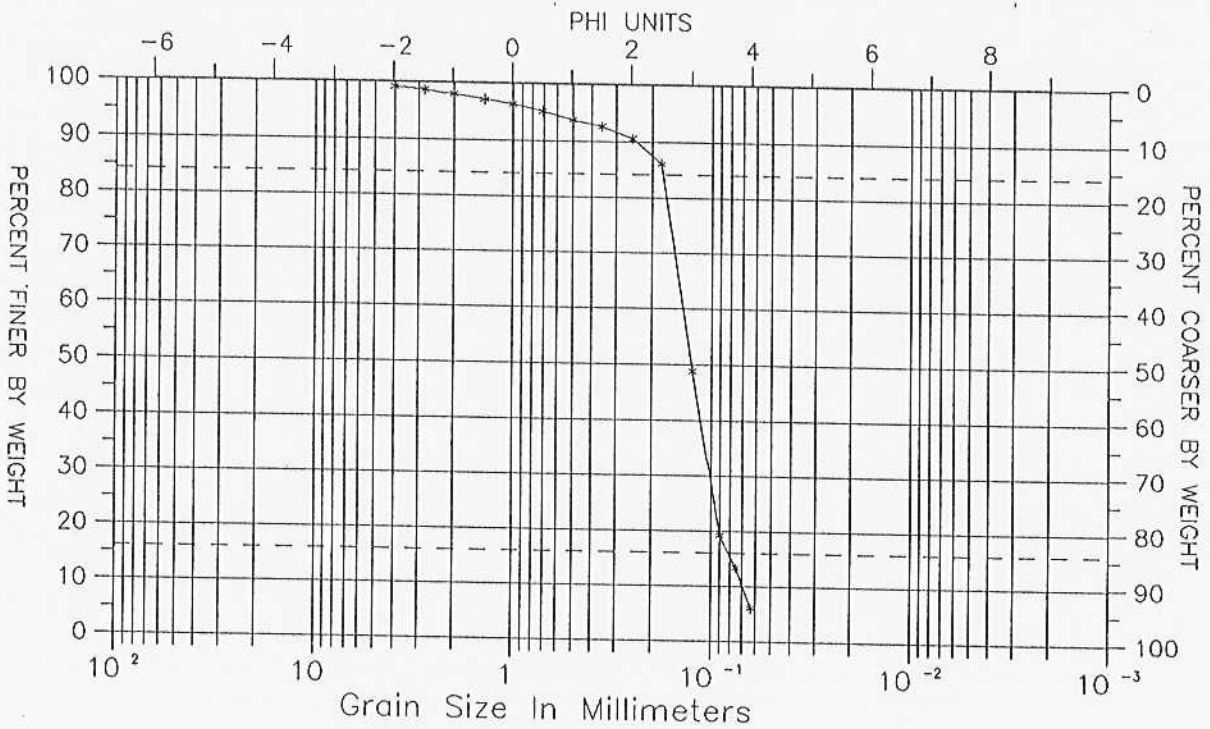
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING	USCS
C-38 2.0	.242	.157	.649	SP-SM
DEC. 1990				

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-38	5.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.149	.126	.555	SM