

VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE II Core No: C-47

Coordinates:

N = 780937.8E = 412604.6Date: 12-6-90Start Time 1058End Time Water Depth 27 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-27	0		DARK GREY SHELL HASH w/SOME GREY QUARTZ SAND	(1) 1.5 (-28.5)	SP
Length of Barrel <u>20'</u>		2.3		GREY SILTY SHELL HASH w/SHELL FRAG. & QUARTZ SAND		
Penetration Depth <u>10'</u>		3.0		WHITE-GREY FINE QUARTZ SAND w/ SOME SHELL HASH		
Length Recovered <u>7.8'</u>		5.4		GREY FINE QUARTZ SAND w/SOME SHELL HASH	(2) 5.3 (-32.3)	SP-SM
Length Retained <u>7.8'</u>		5.7		GREY SHELL HASH w/ FINE SAND & UNCONSOLIDATED SHELL ROCK		
Remarks:		6.2		WHITE GREY FINE QUARTZ SAND w/SHELL FRAGMENTS		
Support Vessel <u>DANIELLE MARIE</u>	-34.8	7.8				
Positioning System <u>TRIPUNDER</u>		10				
Positioning Remarks:		15				
Weather <u>CLEAR</u>		20				
Wind Dir: <u>NE</u>						
Est. Speed <u>10-15 KTS</u>						
Waves Dir: <u>WNW</u>						
Height <u>2'-4'</u>						
Current Dir: <u>SOUTH</u>						
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>						

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ DN: DEC.1990

SAMPLE NO.: C-47
SAMPLE ELEV. (FT. NGVD): -28.5
SAMPLE DEPTH (FT.): 1.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 302.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 299.00

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	3.50	1.16	98.84
10	-1.0	2.000	5.80	1.92	98.08
14	-0.5	1.400	9.30	3.07	96.93
18	0.0	1.000	13.50	4.46	95.54
25	0.5	.710	20.80	6.88	93.12
35	1.0	.500	34.10	11.27	88.73
45	1.5	.355	51.00	16.86	83.14
60	2.0	.250	90.50	29.92	70.08
80	2.5	.180	199.50	65.95	34.05
120	3.0	.125	290.10	95.90	4.10
170	3.5	.090	298.20	98.58	1.42
200	3.75	.075	298.70	98.74	1.26
230	4.0	.063	300.55	99.36	.64
PAN			302.50	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.264
MEDIAN (mm):	.206	SORTING:	.689
SILT/CLAY:	1.26%	KURTOSIS:	1.403
SKEWNESS:	-1.461		

PHI(5):	.11	PHI(16):	1.42	PHI(25):	1.81
PHI(50):	2.28	PHI(75):	2.65	PHI(84):	2.80
PHI(95):	2.98				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC47.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-47
SAMPLE ELEV. (FT. NGVD): -32.5
SAMPLE DEPTH (FT.): 5.3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 203.40
SAMPLE WEIGHT AFTER WASH (GRAMS): 191.50

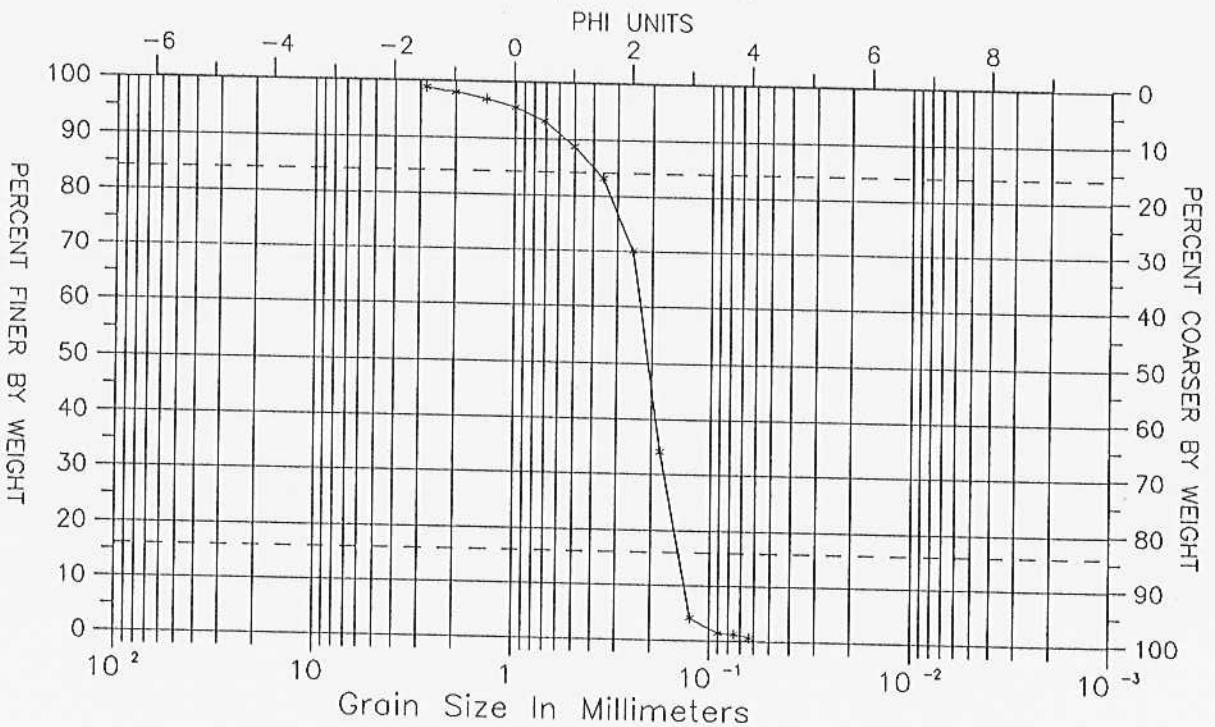
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	24.50	12.05	87.95
7	-1.5	2.800	36.70	18.04	81.96
10	-1.0	2.000	50.80	24.98	75.02
14	-0.5	1.400	64.80	31.86	68.14
18	0.0	1.000	79.00	38.84	61.16
25	0.5	.710	94.80	46.61	53.39
35	1.0	.500	108.10	53.15	46.85
45	1.5	.355	116.20	57.13	42.87
60	2.0	.250	124.60	61.26	38.74
80	2.5	.180	142.00	69.81	30.19
120	3.0	.125	178.70	87.86	12.14
170	3.5	.090	188.70	92.77	7.23
200	3.75	.075	190.20	93.51	6.49
230	4.0	.063	196.85	96.78	3.22
PAN			203.40	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.591	MEAN (mm):	.637
SILT/CLAY:	6.49%	SORTING:	2.282
SKEWNESS:	-.242	KURTOSIS:	.726

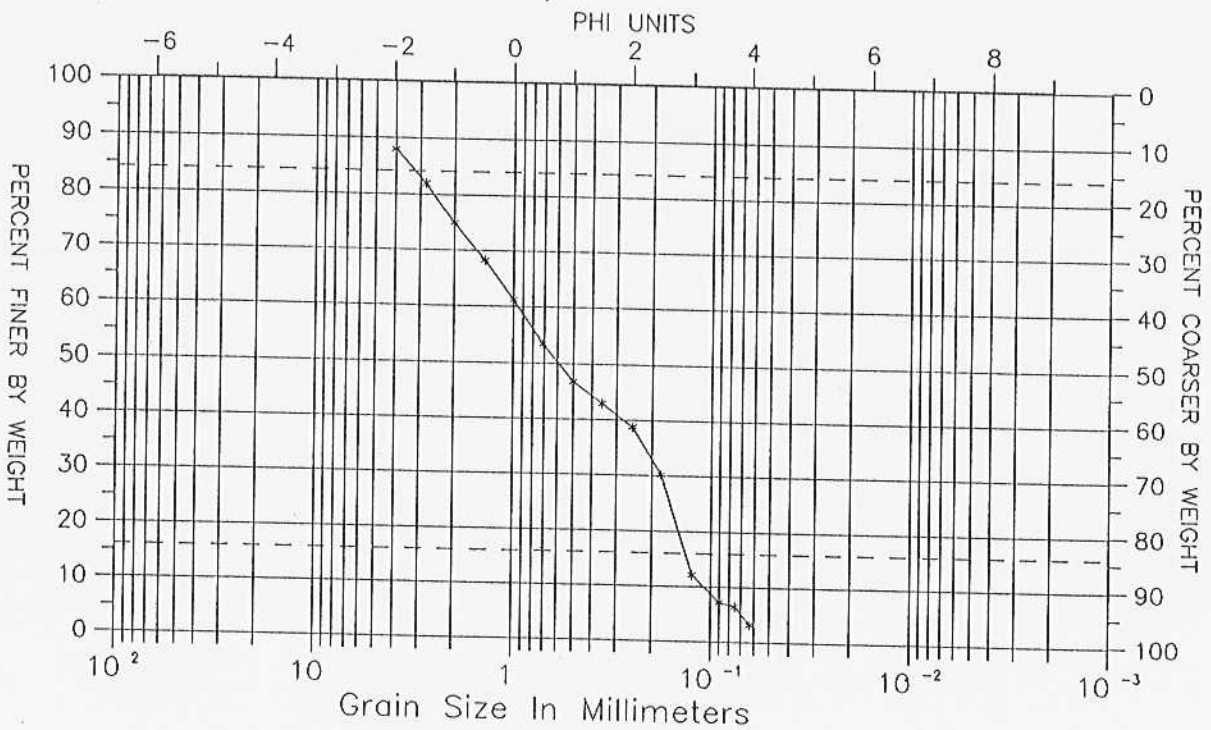
PHI(5): -2.59	PHI(16): -1.67	PHI(25): -1.00
PHI(50): .76	PHI(75): 2.64	PHI(84): 2.89
PHI(95): 3.86		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC47A.TAB

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



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



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

SAMPLE NO.		CLASSIFICATION			
C-47	5.3	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.637	.591	2.282	SP-SM