

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-27</u>	
Coordinates:	Date: <u>12-3-90</u>	Water Depth <u>16</u> NGVD	
N = <u>802946</u>	Start Time <u>1348</u>	Driller <u>RODNEY MEYER</u>	
E = <u>430987</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	<u>-16</u>	<u>0</u>		WHITISH FINE QUARTZ SAND		
Length of Barrel <u>20'</u>		<u>1.2</u>		LIGHT GREY FINE QUARTZ SAND w/SHELL HASH	(1) 1.7 (-17.7)	SP-SM
Penetration Depth <u>20'</u>		<u>2.8</u>		DARK GREY SILTY FINE QUARTZ SAND w/SHELL HASH AND SOME FRAGMENTS	(2) 4.5 (-20.5)	SM
Length Recovered <u>14.1</u>		<u>5</u>				
Length Retained <u>14.1</u>		<u>7.0</u>				
Remarks:		<u>10</u>		WHITE-LIMEY CONSOLIDATED SHELL-ROCK		
Support Vessel <u>DANIELLE MARIE</u>		<u>11.6</u>		TAN-GOLD CONSOLIDATED SHELL-ROCK		
Positioning System <u>TRISPOUNDER</u>		<u>12.6</u>		GOLD-GREY CONSOLIDATED SHELL ROCK		
Positioning Remarks:		<u>14.1</u>				
Weather <u>CLEAR</u>		<u>15</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>						
Est. Speed: <u>N/A</u>						
Analysis By: <u>KEN JACKSON</u>		<u>20</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-27
SAMPLE ELEV. (FT. NGVD): -17.7
SAMPLE DEPTH (FT.): 1.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 218.60
SAMPLE WEIGHT AFTER WASH (GRAMS): 203.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	1.10	.50	99.50
7	-1.5	2.800	2.20	1.01	98.99
10	-1.0	2.000	3.70	1.69	98.31
14	-0.5	1.400	5.60	2.56	97.44
18	0.0	1.000	7.60	3.48	96.52
25	0.5	.710	9.80	4.48	95.52
35	1.0	.500	12.20	5.58	94.42
45	1.5	.355	13.90	6.36	93.64
60	2.0	.250	17.00	7.78	92.22
80	2.5	.180	31.10	14.23	85.77
120	3.0	.125	140.10	64.09	35.91
170	3.5	.090	196.70	89.98	10.02
200	3.75	.075	202.10	92.45	7.55
230	4.0	.063	210.90	96.48	3.52
PAN			218.60	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.156
MEDIAN (mm):	.138	SORTING:	.433
SILT/CLAY:	7.55%	KURTOSIS:	2.158
SKEWNESS:	-1.074		

PHI(5):	.74	PHI(16):	2.52	PHI(25):	2.61
PHI(50):	2.86	PHI(75):	3.21	PHI(84):	3.38
PHI(95):	3.91				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC2717.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ DN: DEC.1990

SAMPLE NO.: C-27
SAMPLE ELEV. (FT. NGVD): -20.5
SAMPLE DEPTH (FT.): 4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 325.60
SAMPLE WEIGHT AFTER WASH (GRAMS): 263.00

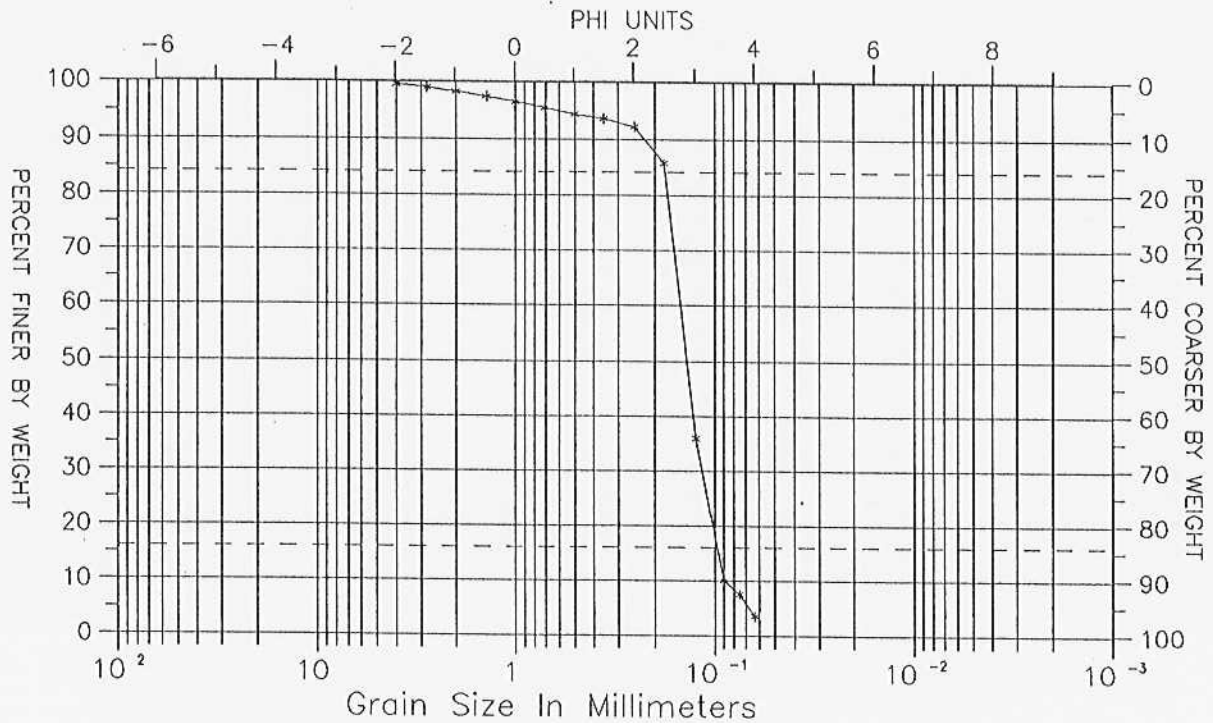
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	8.20	2.52	97.48
7	-1.5	2.800	11.20	3.44	96.56
10	-1.0	2.000	15.20	4.67	95.33
14	-0.5	1.400	19.30	5.93	94.07
18	0.0	1.000	22.10	6.79	93.21
25	0.5	.710	24.90	7.65	92.35
35	1.0	.500	27.40	8.42	91.58
45	1.5	.355	29.20	8.97	91.03
60	2.0	.250	32.10	9.86	90.14
80	2.5	.180	39.80	12.22	87.78
120	3.0	.125	149.20	45.82	54.18
170	3.5	.090	234.00	71.87	28.13
200	3.75	.075	256.80	78.87	21.13
230	4.0	.063	293.70	90.20	9.80
PAN			325.60	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.171
MEDIAN (mm):	.118	SORTING:	.653
SILT/CLAY:	21.13%	KURTOSIS:	2.212
SKEWNESS:	-2.923		

PHI(5):	-.87	PHI(16):	2.56	PHI(25):	2.69
PHI(50):	3.08	PHI(75):	3.61	PHI(84):	3.86
PHI(95):	4.11				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC2745.TAB

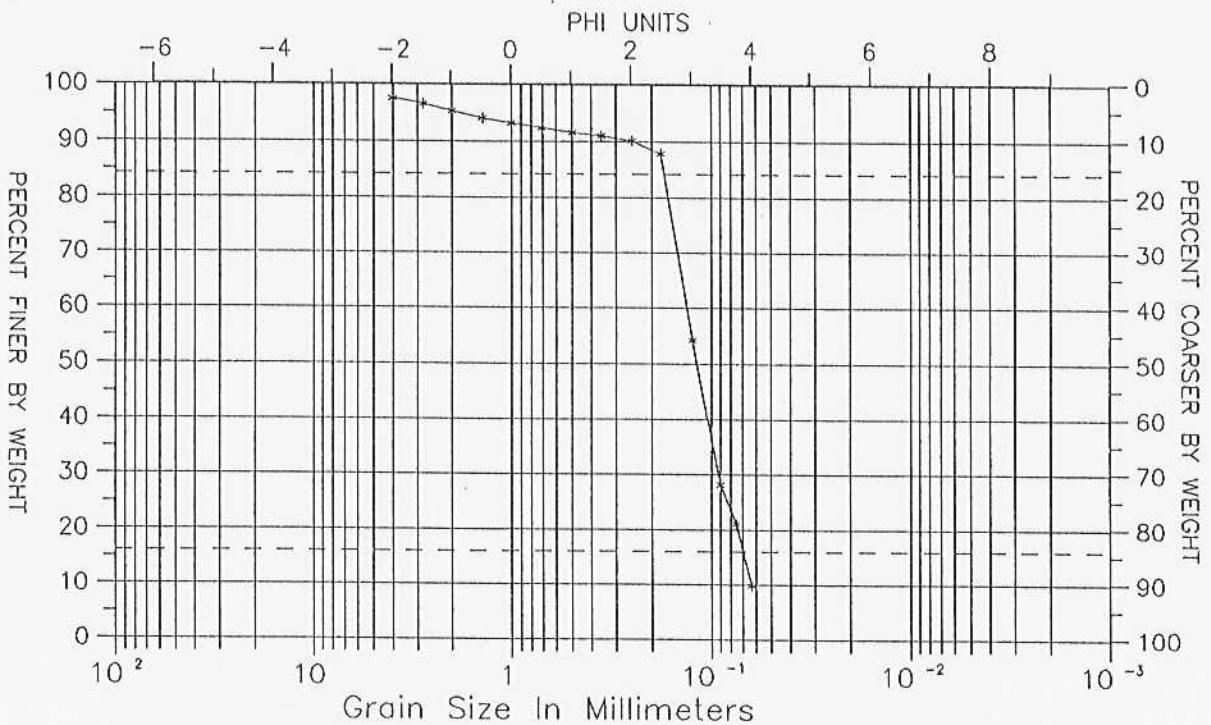
CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



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

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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-27	4.5	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.171	.118	.653	SM