

VTBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-42</u>	
Coordinates: N = <u>787039.0</u> E = <u>419662.0</u>		Date: <u>12-4-90</u> Start Time <u>1017</u> End Time _____	
		Water Depth <u>25</u> NGVD Driller <u>RODNEY MEYER</u> Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-25	0		LIGHT TAN FINE QUARTZ SAND w/ SHELL HASH	(1) 1.0 (-26)	SP
Length of Barrel <u>20'</u>						
Penetration Depth <u>5'</u>						
Length Recovered <u>4.2'</u>						
Length Retained <u>4.2'</u>						
Remarks: GREY VERY SILTY SANDS w/ CONSOLIDATED SHELL ROCK.						
	-29.2	4.2		DARK GREY SHELL HASH	(2) 3.0 (-28)	SM
		5		GREY FINE QUARTZ SAND w/ SOME SMALL SHELL FRAGMENTS (3/4")		
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
		10				
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>						
		15				
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 ON: DEC.1990

SAMPLE NO.: C-42
SAMPLE ELEV. (FT. NGVD): -26.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 290.10
SAMPLE WEIGHT AFTER WASH (GRAMS): 284.25

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	1.60	.55	99.45
7	-1.5	2.800	2.60	.90	99.10
10	-1.0	2.000	4.10	1.41	98.59
14	-0.5	1.400	6.30	2.17	97.83
18	0.0	1.000	9.20	3.17	96.83
25	0.5	.710	12.60	4.34	95.66
35	1.0	.500	20.10	6.93	93.07
45	1.5	.355	29.60	10.20	89.80
60	2.0	.250	55.50	19.13	80.87
80	2.5	.180	132.70	45.74	54.26
120	3.0	.125	255.00	87.90	12.10
170	3.5	.090	279.80	96.45	3.55
200	3.75	.075	283.10	97.59	2.41
230	4.0	.063	287.03	98.94	1.06
PAN			290.10	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.207
MEDIAN (mm):	.171	SORTING:	.565
SILT/CLAY:	2.41%	KURTOSIS:	1.551
SKEWNESS:	-1.059		

PHI(5):	.63	PHI(16):	1.82	PHI(25):	2.11
PHI(50):	2.55	PHI(75):	2.85	PHI(84):	2.95
PHI(95):	3.42				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC42.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-42
SAMPLE ELEV. (FT. NGVD): -28.0
SAMPLE DEPTH (FT.): 3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

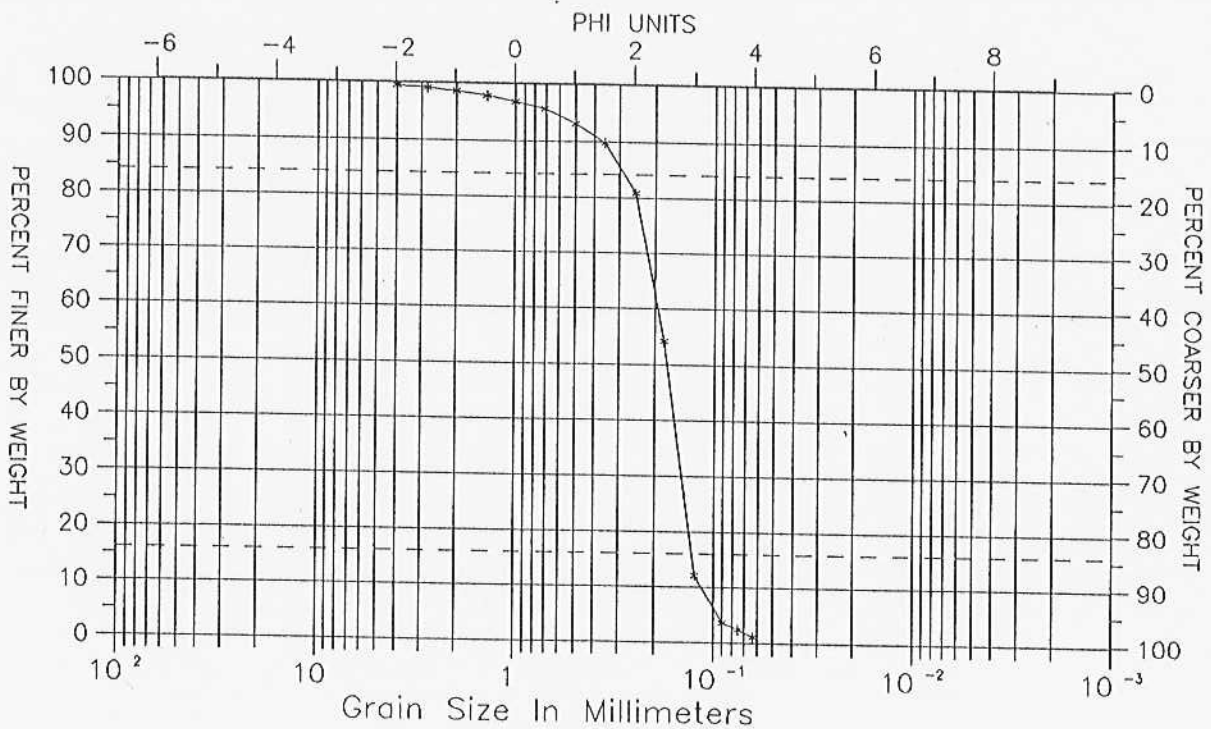
DRY SAMPLE WEIGHT (GRAMS): 227.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 198.45

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	1.40	.62	99.38
7	-1.5	2.800	2.20	.97	99.03
10	-1.0	2.000	2.80	1.23	98.77
14	-0.5	1.400	3.50	1.54	98.46
18	0.0	1.000	4.50	1.98	98.02
25	0.5	.710	6.00	2.64	97.36
35	1.0	.500	8.50	3.74	96.26
45	1.5	.355	11.30	4.97	95.03
60	2.0	.250	18.90	8.31	91.69
80	2.5	.180	36.70	16.13	83.87
120	3.0	.125	118.10	51.91	48.09
170	3.5	.090	178.00	78.24	21.76
200	3.75	.075	191.05	83.98	16.02
230	4.0	.063	210.63	92.58	7.42
PAN			227.45	99.98	.02

SIEVE LOSS(g):	.05		
MEDIAN (mm):	.127	MEAN (mm):	.129
SILT/CLAY:	16.02%	SORTING:	.630
SKEWNESS:	-.371	KURTOSIS:	1.291

PHI(5):	1.50	PHI(16):	2.49	PHI(25):	2.62
PHI(50):	2.97	PHI(75):	3.44	PHI(84):	3.75
PHI(95):	4.07				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC423.TAB

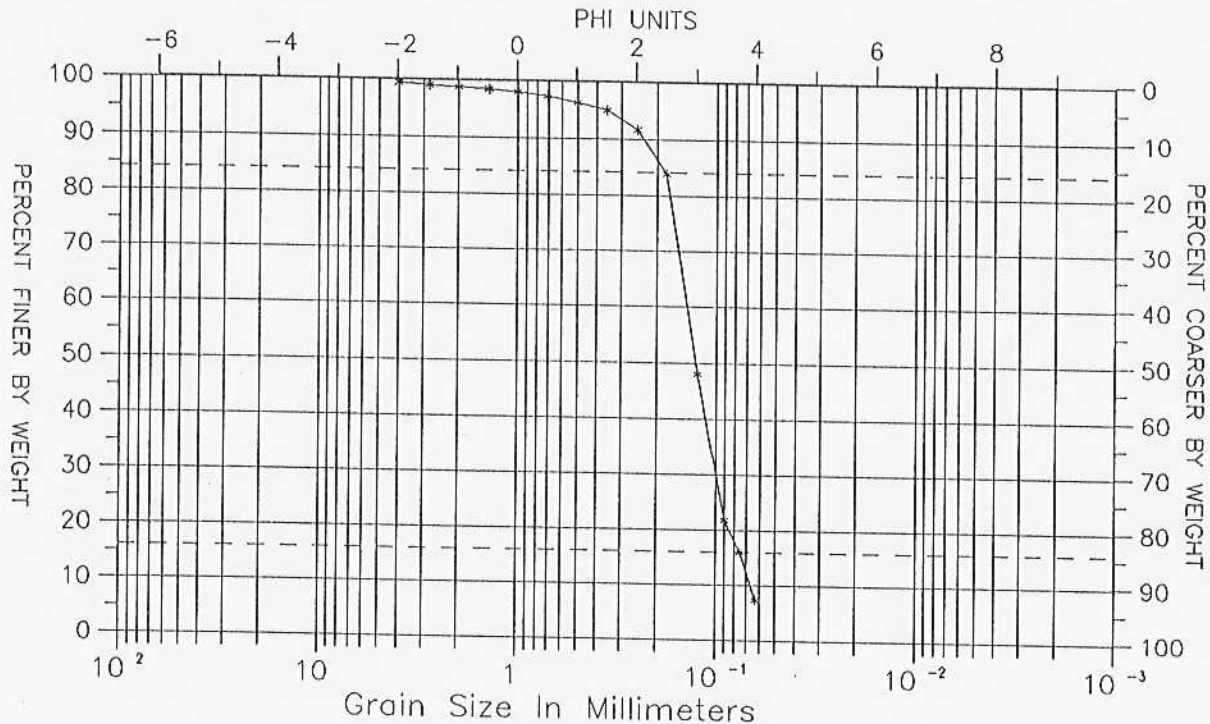


WENTWORTH CLASSIFICATION								
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.		CLASSIFICATION			
C-42	1.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.207	.171	.565	SP

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	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-42	3.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.129	.127	.630	SM