

## VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-32</u>	
Coordinates:	Date: <u>12-4-90</u>	Water Depth <u>23</u> NGVD	
N = <u>787894.8</u>	Start Time <u>1309</u>	Driller <u>RODNEY MEYER</u>	
E = <u>430995.0</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-23	0		GREY SILTY FINE QUARTZ SAND w/SHELL HASH	(1) 1.0 (-24)	SM
Length of Barrel <u>20'</u>	-24.7	1.7		GREY SILTY FINE QUARTZ SAND w/SHELL HASH AND FRAGMENTS	(2) 3.0 (-26)	SM
Penetration Depth <u>9.0'</u>	-27.3	4.3		LIGHT TAN SILTY FINE QUARTZ SAND w/SOME SHELL HASH	(3) 6.0 (-29)	SM
Length Recovered <u>9.0'</u>	-30	7.0		WHITE-TAN FINE QUARTZ SAND w/CONSOLIDATED SHELL ROCK		
Length Retained <u>9.0'</u>	-32	9.0				
Remarks: WHITE-TAN, CONSOLIDATED SHELL-ROCK IN BIT SAMPLE NOT KEPT.		10				
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISponder</u>						
Positioning Remarks:						
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>		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>		20				
<u>MECHANICAL SIEVE</u>						

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      GN: DEC.1990

SAMPLE NO.: C-32  
SAMPLE ELEV. (FT. NGVD): -24.0  
SAMPLE DEPTH (FT.): 1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 255.80  
SAMPLE WEIGHT AFTER WASH (GRAMS): 229.60

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	2.60	1.02	98.98
7	-1.5	2.800	4.50	1.76	98.24
10	-1.0	2.000	7.50	2.93	97.07
14	-0.5	1.400	10.50	4.10	95.90
18	0.0	1.000	13.20	5.16	94.84
25	0.5	.710	16.50	6.45	93.55
35	1.0	.500	20.50	8.01	91.99
45	1.5	.355	23.70	9.27	90.73
60	2.0	.250	29.10	11.38	88.62
80	2.5	.180	39.40	15.40	84.60
120	3.0	.125	122.10	47.73	52.27
170	3.5	.090	204.20	79.83	20.17
200	3.75	.075	221.70	86.67	13.33
230	4.0	.063	241.00	94.21	5.79
PAN			255.80	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.122	MEAN (mm):	.162
SILT/CLAY:	13.33%	SORTING:	.572
SKEWNESS:	-2.121	KURTOSIS:	2.165

PHI(5):	-.08	PHI(16):	2.51	PHI(25):	2.65
PHI(50):	3.04	PHI(75):	3.42	PHI(84):	3.65
PHI(95):	4.03				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC32B.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-32  
SAMPLE ELEV. (FT. NGVD): -26.0  
SAMPLE DEPTH (FT.): 3.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 362.20  
SAMPLE WEIGHT AFTER WASH (GRAMS): 322.30

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	31.60	8.72	91.28
7	-1.5	2.800	61.60	17.01	82.99
10	-1.0	2.000	90.40	24.96	75.04
14	-0.5	1.400	112.20	30.98	69.02
18	0.0	1.000	131.40	36.28	63.72
25	0.5	.710	152.10	41.99	58.01
35	1.0	.500	174.30	48.12	51.88
45	1.5	.355	188.00	51.91	48.09
60	2.0	.250	204.30	56.41	43.59
80	2.5	.180	221.60	61.18	38.82
120	3.0	.125	253.20	69.91	30.09
170	3.5	.090	300.40	82.94	17.06
200	3.75	.075	315.70	87.16	12.84
230	4.0	.063	339.85	93.83	6.17
PAN			362.20	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.421	MEAN (mm):	.495
SILT/CLAY:	12.84%	SORTING:	2.562
SKEWNESS:	-.677	KURTOSIS:	.613

PHI(5): -2.22	PHI(16): -1.56	PHI(25): -1.00
PHI(50): 1.25	PHI(75): 3.20	PHI(84): 3.56
PHI(95): 4.04		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC32A.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-32  
SAMPLE ELEV. (FT. NGVD): -29.0  
SAMPLE DEPTH (FT.): 6.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 322.50  
SAMPLE WEIGHT AFTER WASH (GRAMS): 243.90

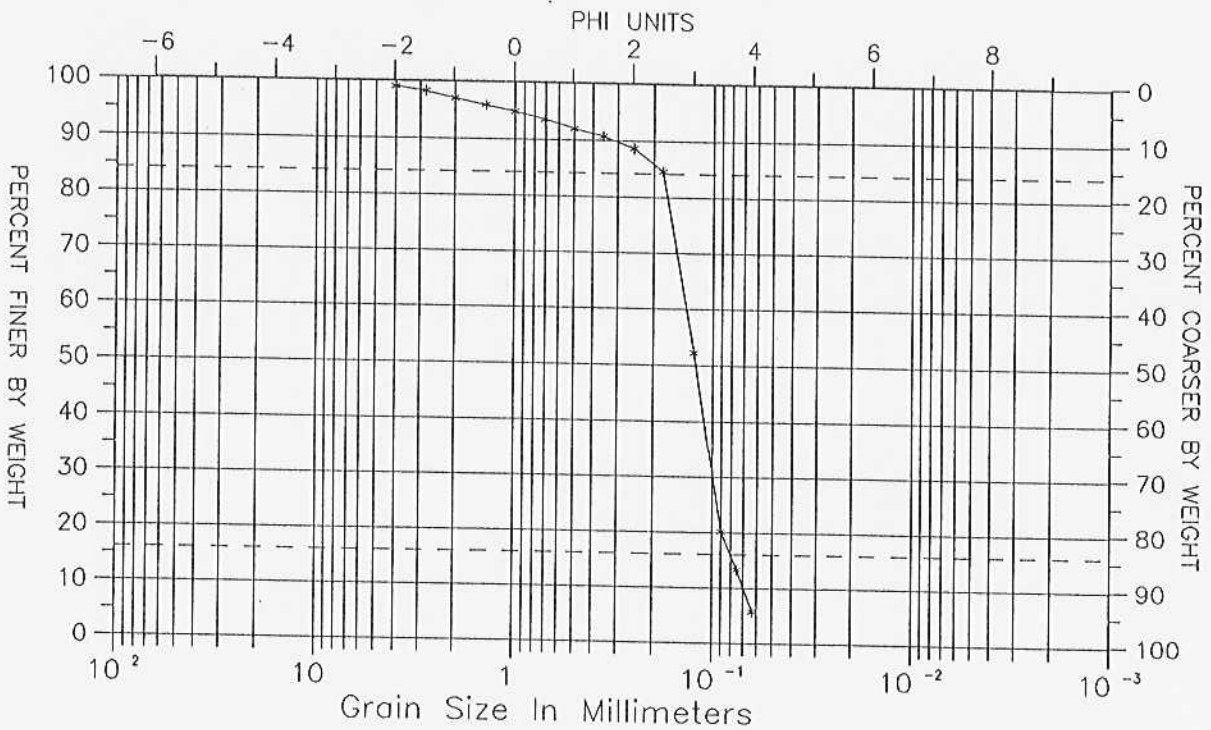
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	9.90	3.07	96.93
7	-1.5	2.800	13.10	4.06	95.94
10	-1.0	2.000	16.50	5.12	94.88
14	-0.5	1.400	20.00	6.20	93.80
18	0.0	1.000	22.54	6.99	93.01
25	0.5	.710	26.00	8.06	91.94
35	1.0	.500	30.00	9.30	90.70
45	1.5	.355	33.60	10.42	89.58
60	2.0	.250	43.00	13.33	86.67
80	2.5	.180	63.50	19.69	80.31
120	3.0	.125	155.00	48.06	51.94
170	3.5	.090	227.30	70.48	29.52
200	3.75	.075	240.90	74.70	25.30
230	4.0	.063	282.80	87.69	12.31
PAN			322.50	100.00	.00

SIEVE LOSS(g):	.00	
MEDIAN (mm):	.121	MEAN (mm): .183
SILT/CLAY:	25.30%	SORTING: .860
SKEWNESS:	-3.001	KURTOSIS: 1.832

PHI(5): -1.06	PHI(16): 2.21	PHI(25): 2.59
PHI(50): 3.04	PHI(75): 3.76	PHI(84): 3.93
PHI(95): 4.14		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC32.TAB

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



WENTWORTH CLASSIFICATION

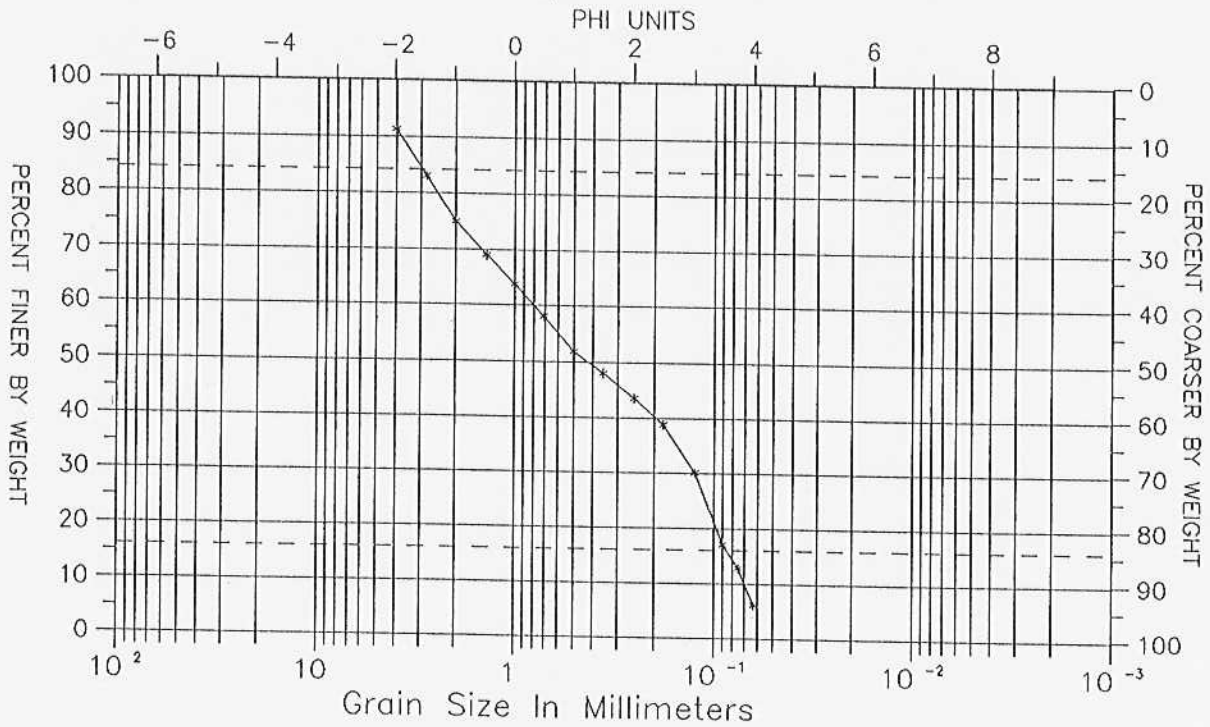
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-32	1.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.162	.122	.572	SP

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



WENTWORTH CLASSIFICATION

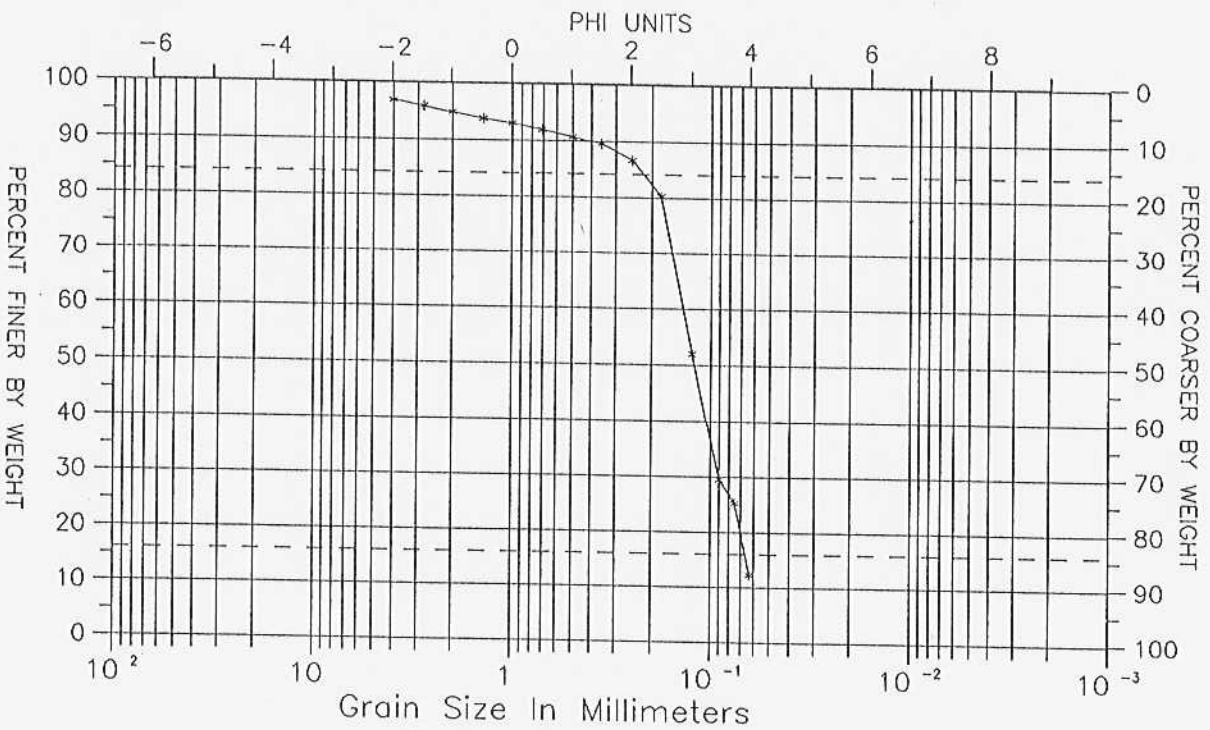
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-32 3.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990	.495	.421	2.562	SM

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-32	6.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.183	.121	.860	SM