

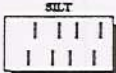




VIBRACORE LOG							
PROJECT: <u>CAPTIVA ISLAND BORROW AREA III</u>				CORE NO: <u>III-1</u>			
COORDINATES: N = 780243 E = 415646	DATE: MARCH 1, 1993 START TIME: 1407 END TIME: 1410	WATER DEPTH: 30.5 FT. NGVD DRILLER: EXMAR (M. CLARKE) CLIENT REP: MDA					
CORE DIAMETER: 3.0" LENGTH OF BARREL: 11.5' PENETRATION DEPTH: 2.7' LENGTH RECOVERED: 2.6' PERCENT RECOVERED: 96 % LENGTH RETAINED : 2.4'	SUPPORT VESSEL: SEAHORSE POSITIONING: TRISPONDER	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
		30.5'	0.0				
		31.2'	0.5	~ ~	LT. GRAY, FINE GRAIN SAND		2.54 Phi
		31.2'	1.0	~ ~	GRAY, FINE GRAIN SAND WITH SHELL HASH	1 0.7'	0.17 mm 3.6 % SILT (SP)
		32.5'	2.3		GRAY, FINE GRAIN SAND		2.63 Phi
		33.0'	2.5	~ ^ ~ ^	SAND W/ SHELL HASH AND SHELLS	2 2.0'	0.16 mm 4.2 % SILT (SP)
		33.2'	2.7	XXXX	ROCK		
WEATHER: WIND: DIR: NE SPEED: 10 TO 15 Kt WAVES DIR: NE HEIGHT: 1 TO 3 Ft.		BIT SAMPLE CONTAINED ROCK					
ANALYSIS BY: MDA DATE: MARCH 1993 ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE							
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SAND  </div> <div style="text-align: center;"> SHELLS  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> SILT  </div> <div style="text-align: center;"> SHELL HASH  </div> </div> <div style="text-align: center; margin-top: 10px;"> ROCK  </div>							
			7.5				
			10.0				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND VC 03/01/93

TESTED BY: MDA ON: 04/09/93

SAMPLE NO.: CORE #1
SAMPLE ELEV. (FT. NGVD): 30.50
SAMPLE DEPTH (FT.): 0.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 187.35
SAMPLE WEIGHT AFTER WASH (GRAMS): 181.50

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.05	.03	99.97
7	-1.5	2.800	.30	.16	99.84
10	-1.0	2.000	.90	.48	99.52
14	-0.5	1.400	1.70	.91	99.09
18	0.0	1.000	2.70	1.44	98.56
25	0.5	.710	4.30	2.30	97.70
35	1.0	.500	6.65	3.55	96.45
45	1.5	.355	9.40	5.02	94.98
60	2.0	.250	20.50	10.94	89.06
80	2.5	.180	66.70	35.60	64.40
120	3.0	.125	157.70	84.17	15.83
170	3.5	.090	178.80	95.44	4.56
200	3.75	.075	180.60	96.40	3.60
230	4.0	.063	184.18	98.31	1.69
PAN			187.30	99.97	.03

SIEVE LOSS (g):	.05	MEAN (PHI):	2.54
MEDIAN (mm):	.160	MEAN (mm):	.171
SILT/CLAY:	3.60%	SORTING:	.448
SKEWNESS:	-.322	KURTOSIS:	1.312

PHI(5):	1.49	PHI(16):	2.10	PHI(25):	2.29
PHI(50):	2.65	PHI(75):	2.91	PHI(84):	3.00
PHI(95):	3.48				
COEFFICIENT OF CURVATURE :	1.069				
COEFFICIENT OF UNIFORMITY:	1.640				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#1 S#1.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND VC 03/01/93

TESTED BY: MDA ON: 04/09/93

SAMPLE NO.: CORE #1
SAMPLE ELEV. (FT. NGVD): 31.70
SAMPLE DEPTH (FT.): 1.8
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 182.60
SAMPLE WEIGHT AFTER WASH (GRAMS): 175.70

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.10	.05	99.95
7	-1.5	2.800	.30	.16	99.84
10	-1.0	2.000	.70	.38	99.62
14	-0.5	1.400	1.00	.55	99.45
18	0.0	1.000	1.80	.99	99.01
25	0.5	.710	2.80	1.53	98.47
35	1.0	.500	5.00	2.74	97.26
45	1.5	.355	8.00	4.38	95.62
60	2.0	.250	19.50	10.68	89.32
80	2.5	.180	57.60	31.54	68.46
120	3.0	.125	146.30	80.12	19.88
170	3.5	.090	171.90	94.14	5.86
200	3.75	.075	174.90	95.78	4.22
230	4.0	.063	179.05	98.06	1.94
PAN			182.55	99.97	.03

SIEVE LOSS(g):	.05	MEAN (PHI):	2.63
MEDIAN (mm):	.155	MEAN (mm):	.162
SILT/CLAY:	4.22%	SORTING:	.505
SKEWNESS:	-.200	KURTOSIS:	1.412

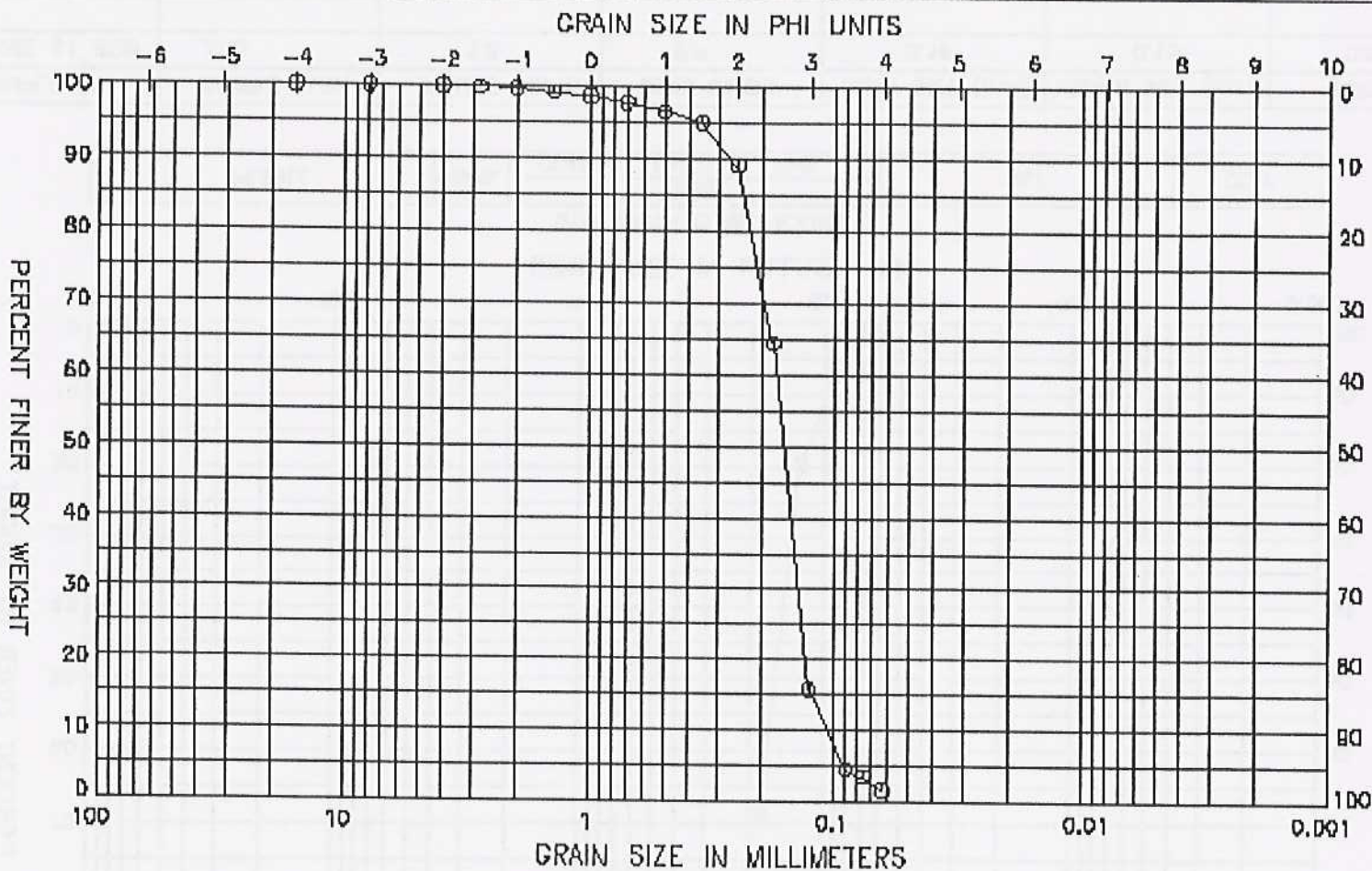
PHI(5):	1.55	PHI(16):	2.13	PHI(25):	2.34
PHI(50):	2.69	PHI(75):	2.95	PHI(84):	3.14
PHI(95):	3.63				

COEFFICIENT OF CURVATURE : 1.108

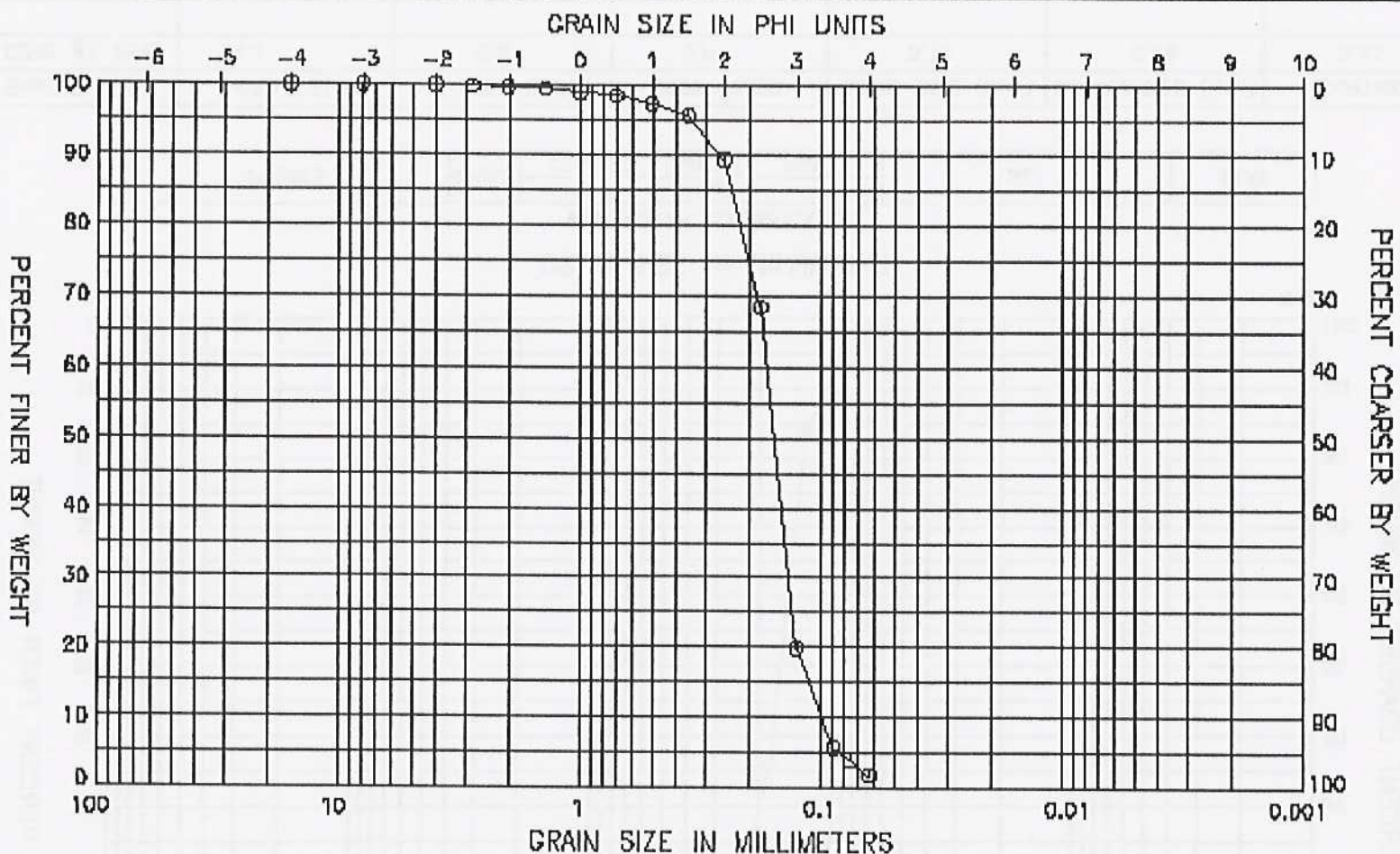
COEFFICIENT OF UNIFORMITY: 1.700

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#1 S#2.TAB

PERCENT COARSER BY WEIGHT



GRAIN SIZE DISTRIBUTION CURVE
CAPTIVA ISLAND VC 03/01/93



PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
CORE #1 REV0	32.3	1.8	SP	0.16	0.15	0.51