

VIBRACORE LOG							
PROJECT: CAPTIVA ISLAND BORROW AREA III				CORE NO: III-7			
<u>COORDINATES:</u>	DATE: MARCH 2, 1993		WATER DEPTH: 31.0 Ft. NGVD				
N = 781374	START TIME: 1356		DRILLER: EXMAR (M. CLARKE)				
E = 413351	END TIME: 1403		CLIENT RE P: MDA				
CORE DIAMETER: 3.0"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 11.5'	31.0'	0.0					
PENETRATION DEPTH: 2.2'			~ ~	LT. BROWN, FINE GRAIN SAND WITH SHELL HASH			0.93 Phi 0.53 mm
LENGTH RECOVERED: 1.9'	31.7'	0.7	~ ~		8		2.2 % SILT (SP)
PERCENT RECOVERED: 86 %			~ ~	LT. GRAY, FINE GRAIN SAND WITH SHELL HASH	0.7		
LENGTH RETAINED : 1.7'	32.8'		~ ~				1.42 Phi 0.37 mm
			~ ~		9		2.6 % SILT (SP)
SUPPORT VESSEL: SEAHORSE	33.0'	2.0	X X X X	ROCK			
POSITIONING: TRISPONDER	33.2'	2.2			1.8		
		2.5					
				BIT SAMPLE CONTAINED ROCK			
<u>WEATHER:</u>							
<u>WIND:</u>							
DIR: NE							
SPEED: 10 TO 15 Kt							
<u>WAVES</u>							
DIR: NE		5.0					
HEIGHT: 1 TO 3 Ft.							
ANALYSIS BY: MDA							
DATE: MARCH 1993							
<u>ANALYSIS METHOD:</u>							
VISUAL LOGGING							
MECHANICAL SIEVE		7.5					
SAND							
SHELLS							
SILT							
SHELL HASH							
ROCK		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 #7
SAMPLE ELEV. (FT. NGVD): 32.20
SAMPLE DEPTH (FT.): 0.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 183.30
SAMPLE WEIGHT AFTER WASH (GRAMS): 179.30

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	3.30	1.80	98.20
7	-1.5	2.800	6.30	3.44	96.56
10	-1.0	2.000	12.40	6.76	93.24
14	-0.5	1.400	22.50	12.27	87.73
18	0.0	1.000	38.10	20.79	79.21
25	0.5	.710	61.80	33.72	66.28
35	1.0	.500	94.00	51.28	48.72
45	1.5	.355	119.30	65.08	34.92
60	2.0	.250	141.70	77.30	22.70
80	2.5	.180	161.70	88.22	11.78
120	3.0	.125	177.00	96.56	3.44
170	3.5	.090	178.90	97.60	2.40
200	3.75	.075	179.20	97.76	2.24
230	4.0	.063	181.25	98.88	1.12
PAN			183.30	100.00	.00

SIEVE LOSS (g):	.00	MEAN (PHI):	.93
MEDIAN (mm):	.513	MEAN (mm):	.526
SILT/CLAY:	2.24%	SORTING:	1.294
SKEWNESS:	-.286	KURTOSIS:	.981

PHI(5): -1.27	PHI(16): -.28	PHI(25): .16
PHI(50): .96	PHI(75): 1.91	PHI(84): 2.31
PHI(95): 2.91		

COEFFICIENT OF CURVATURE : .922
COEFFICIENT OF UNIFORMITY: 3.805

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#7 S#8.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND VC 03/01/93

TESTED BY: MDA ON: 04/09/93

SAMPLE NO.: CORE #7
SAMPLE ELEV. (FT. NGVD): 33.10
SAMPLE DEPTH (FT.): 1.50
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 176.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 172.00

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	1.00	.57	99.43
7	-1.5	2.800	2.60	1.47	98.53
10	-1.0	2.000	6.70	3.80	96.20
14	-0.5	1.400	13.60	7.71	92.29
18	0.0	1.000	24.65	13.97	86.03
25	0.5	.710	41.00	23.23	76.77
35	1.0	.500	63.10	35.75	64.25
45	1.5	.355	80.70	45.72	54.28
60	2.0	.250	97.30	55.13	44.87
80	2.5	.180	122.00	69.12	30.88
120	3.0	.125	163.50	92.63	7.37
170	3.5	.090	171.00	96.88	3.12
200	3.75	.075	171.85	97.37	2.63
230	4.0	.063	174.20	98.70	1.30
PAN			176.50	100.00	.00

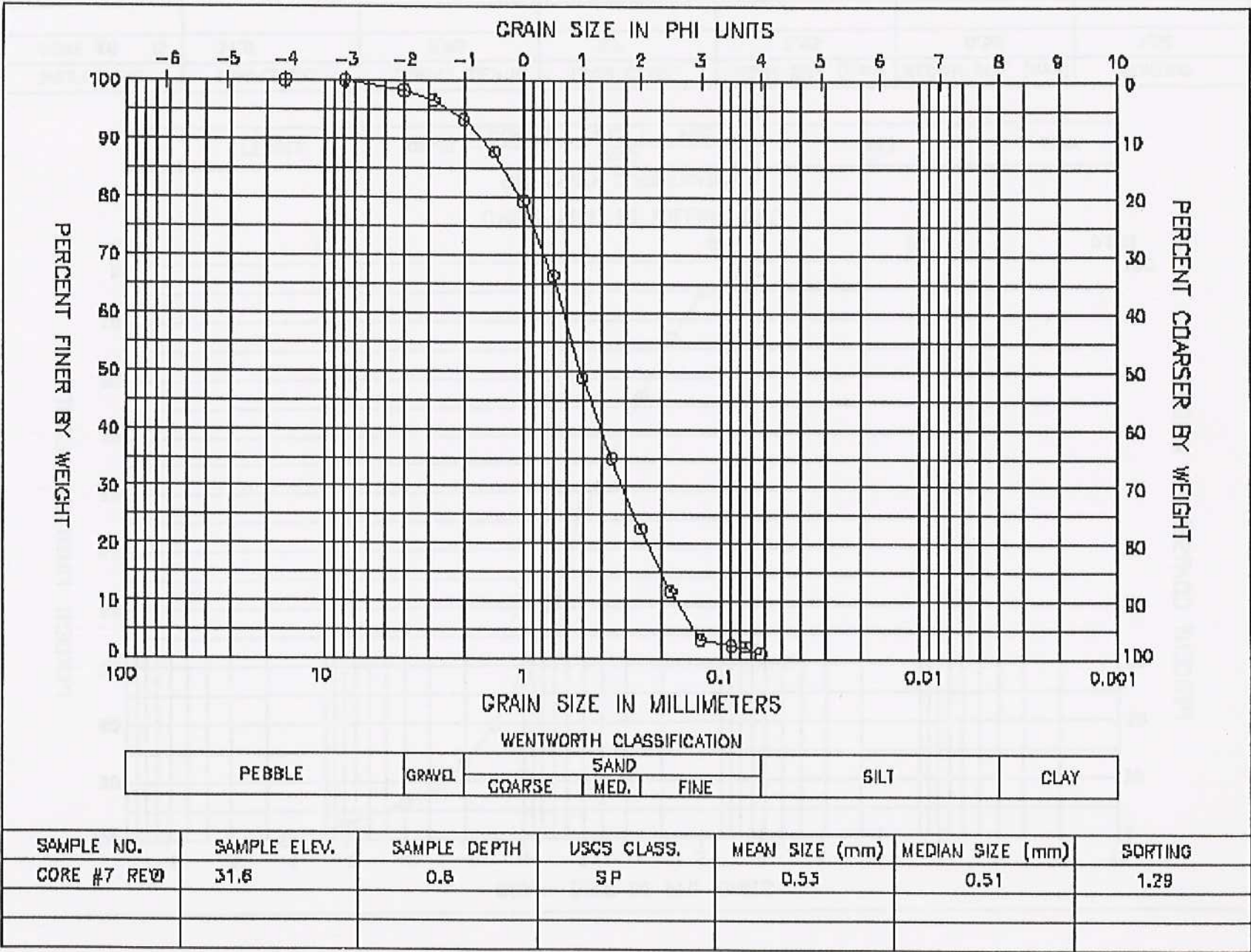
SIEVE LOSS(g):	.00	MEAN (PHI):	1.42
MEDIAN (mm):	.302	MEAN (mm):	.374
SILT/CLAY:	2.63%	SORTING:	1.353
SKEWNESS:	-1.023	KURTOSIS:	.823

PHI(5):	-.85	PHI(16):	.11	PHI(25):	.57
PHI(50):	1.73	PHI(75):	2.63	PHI(84):	2.82
PHI(95):	3.28				

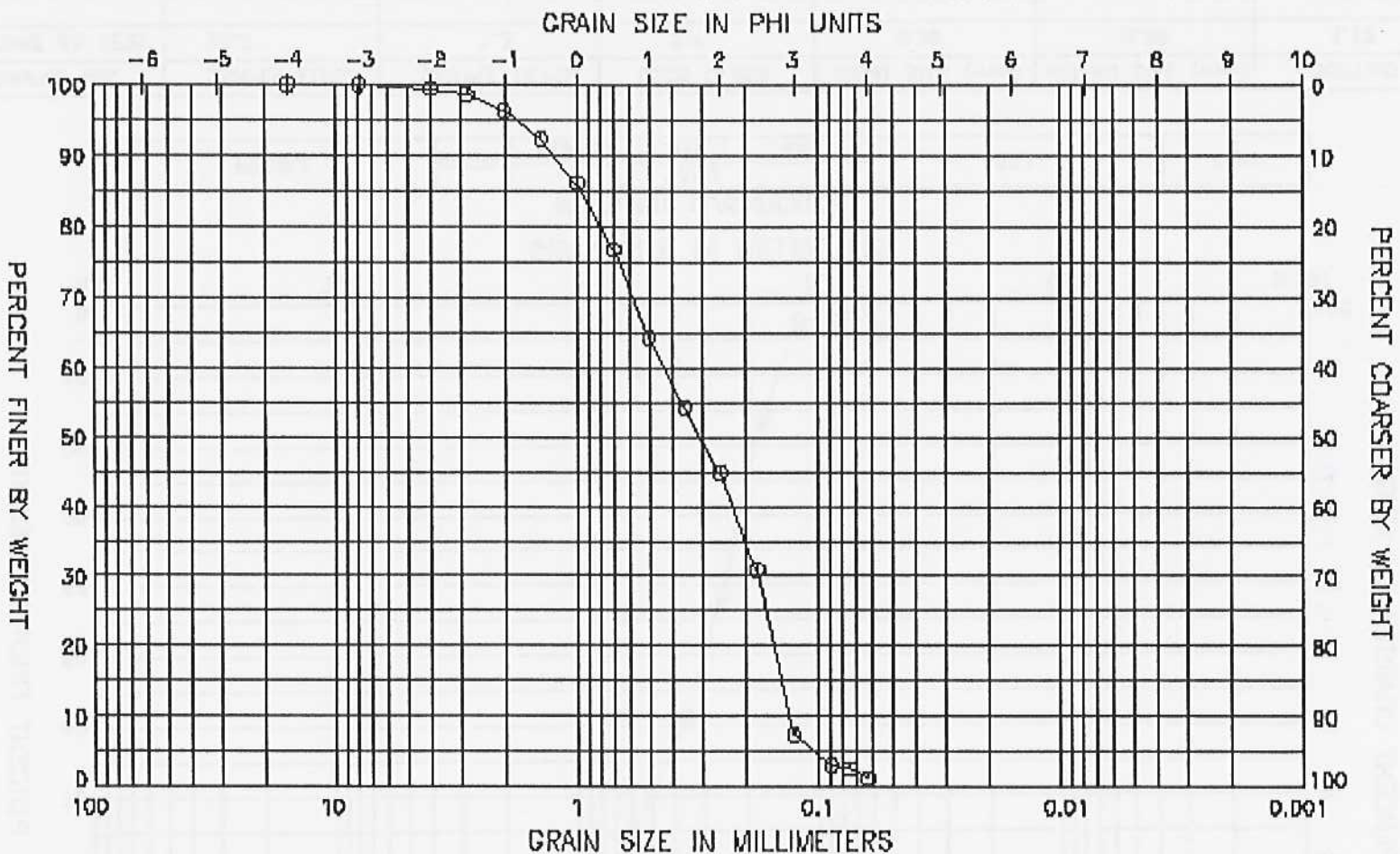
COEFFICIENT OF CURVATURE : .543
COEFFICIENT OF UNIFORMITY: 3.319

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C#7 S#9.TAB

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



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



WENTWORTH CLASSIFICATION					
PEBBLE	GRAVEL	SAND			SILT
		COARSE	MED.	FINE	
					CLAY

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
CORE #7 REVD	32.5	1.5	SP	0.37	0.30	1.35