

GRADATION ANALYSIS REPORT
VERO BEACH VIBRACORE SAMPLES

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

DATE:	11/23/88	11/23/88	11/23/88
CORE #	CB-IR-72 #3	74 @ 4'-6'	77 @ 0-15'

Footnote:	3	2	2
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U.S.C.S.

DESCRIPTION	GM	GM	SP
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DRY WT. (GRAMS)	88.81	132.86	179.51
DRY WT AFTER WASH	88.09	130.56	171.25
THROUGH #200 SIEVE			

SIEVE SIZE	PHI SIZE	MESH SIZE	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4.0mm	10.23			31.71			1.31		
7	-1.50	2.8mm	5.98	7.74	92.26	8.59	6.58	93.42	0.67	0.39	99.61
10	-1.00	2.0mm	13.12	16.97	83.03	19.31	14.79	85.21	2.61	1.54	98.46
14	-0.50	1.4mm	17.80	23.03	76.97	25.35	25.80	74.20	4.92	2.90	97.10
18	0.00	1.0mm	24.81	32.10	67.90	35.61	36.24	63.76	7.99	4.71	95.29
25	0.50	.71mm	33.31	43.09	56.91	44.00	44.77	55.23	10.87	6.40	93.60
35	1.00	.50mm	45.61	59.00	41.00	60.14	61.20	38.80	18.67	11.00	89.00
45	1.50	.355mm	58.84	76.12	23.88	74.39	75.70	24.30	33.12	19.51	80.49
60	2.00	.250mm	68.21	88.24	11.76	78.51	79.89	20.11	56.15	33.07	66.93
80	2.50	.180mm	73.62	95.24	4.76	81.23	82.66	17.34	63.77	37.56	62.44
120	3.00	.125mm	75.45	97.61	2.39	91.81	93.43	6.57	127.09	74.86	25.14
170	3.50	.090mm	76.86	99.43	0.57	97.22	98.93	1.07	163.70	96.42	3.58
200	3.75	.075mm	77.23	99.91	0.09	98.04	99.77	0.23	167.58	98.70	1.30
230	4.00	.063mm	77.28	99.97	0.03	98.24	99.97	0.03	169.71	99.96	0.04
PAN	5.00		77.30			98.27			169.78		

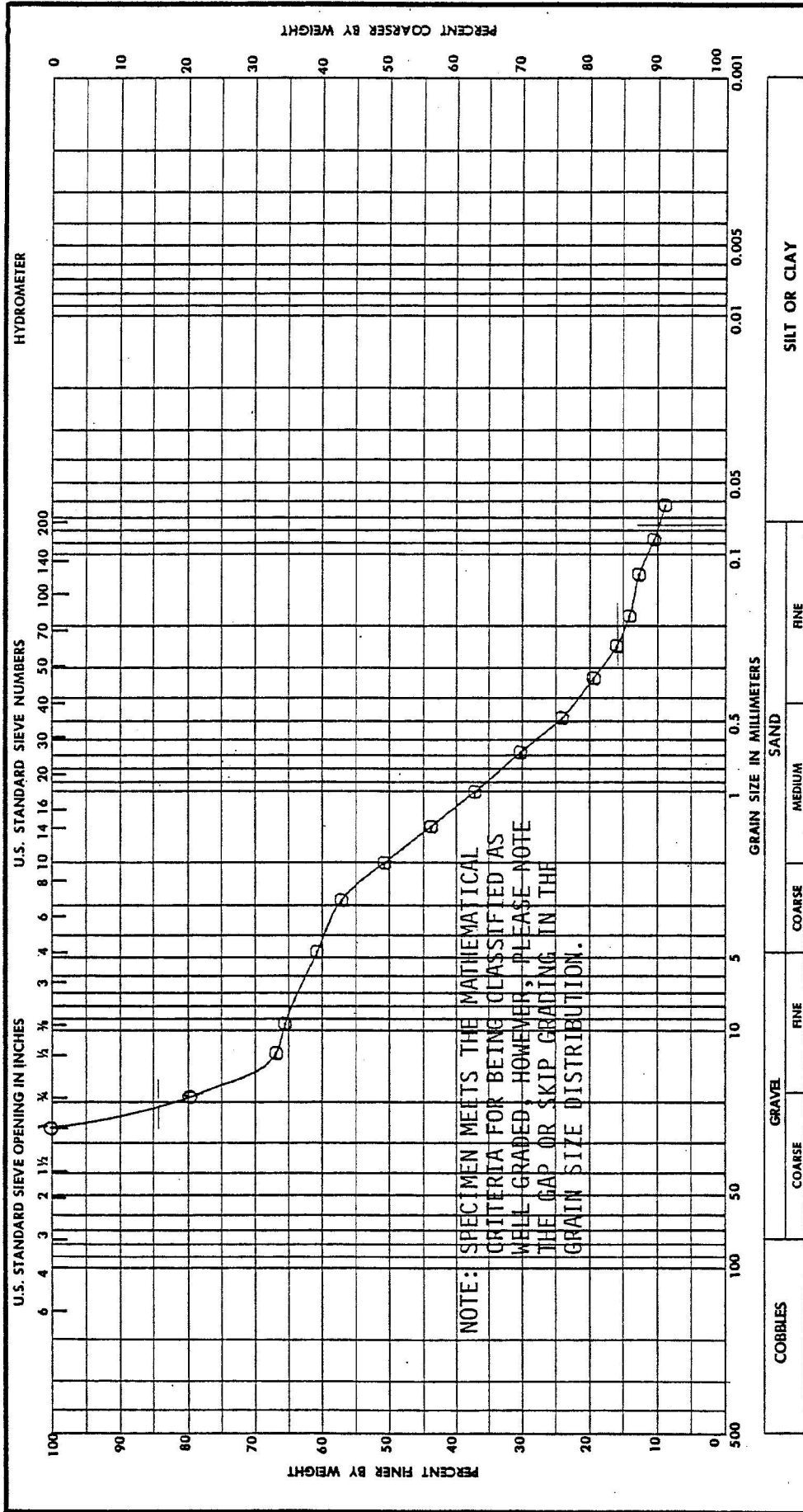
SIEVE LOSS	0.56	0.58	0.16
WEIGHTED AVE(mm)	0.572	0.550	0.170
SILT CLAY%	0.89	1.90	5.83

- Footnotes: 1 Sample taken from portion of vibracore not analyzed by Corps, but corresponding to Corps sample.
- 2 Sample taken from portion of vibracore not analyzed by Corps.
- 3 Washed sample; analyzed by Corps, re-analyzed by Gilloti, Frione & Assoc., Inc.

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CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 4606

Req. No. RM-CW-85-0111

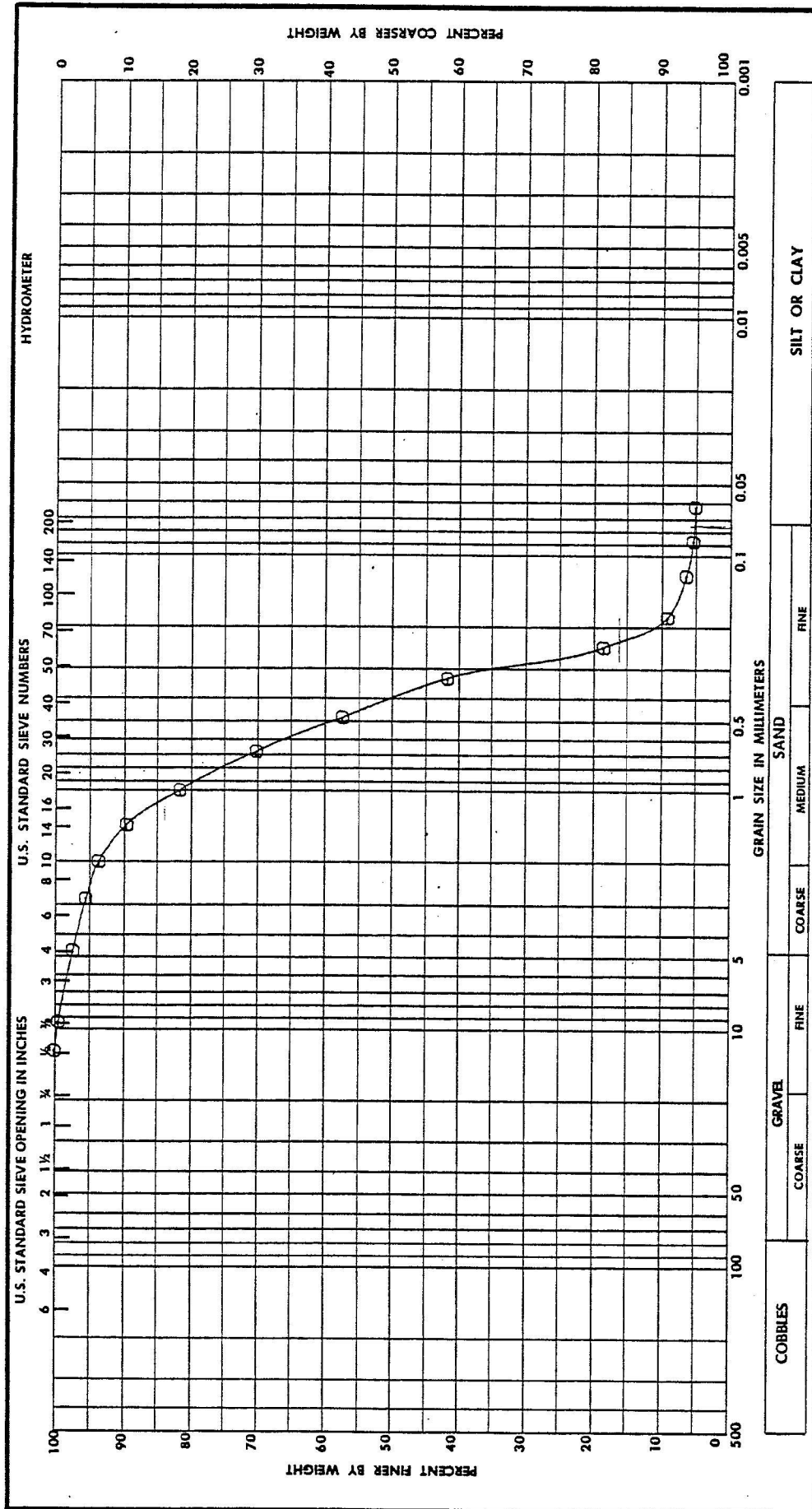


Sample No.	1	Depth	6.5'	Classification	WELL GRD clayey SAND (SW-SC)	Nat w %	---	LL	23	PL	16	PI	7
					LT. GRAYISH BEIGE, SHELLY, (GRAVEL SIZES), WITH SOME SAND								
					SIZE SHELL, VIS. SHELL ≈ 63.0%								
GRADATION CURVES													
Project INDIAN RIVER COUNTY B.E.C.													
Area LAB NO. 73/2022													
Boring No. CB-1R-77 SAMPLE NO. 1													
Date 02/11/87													

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W.O. No. 4606

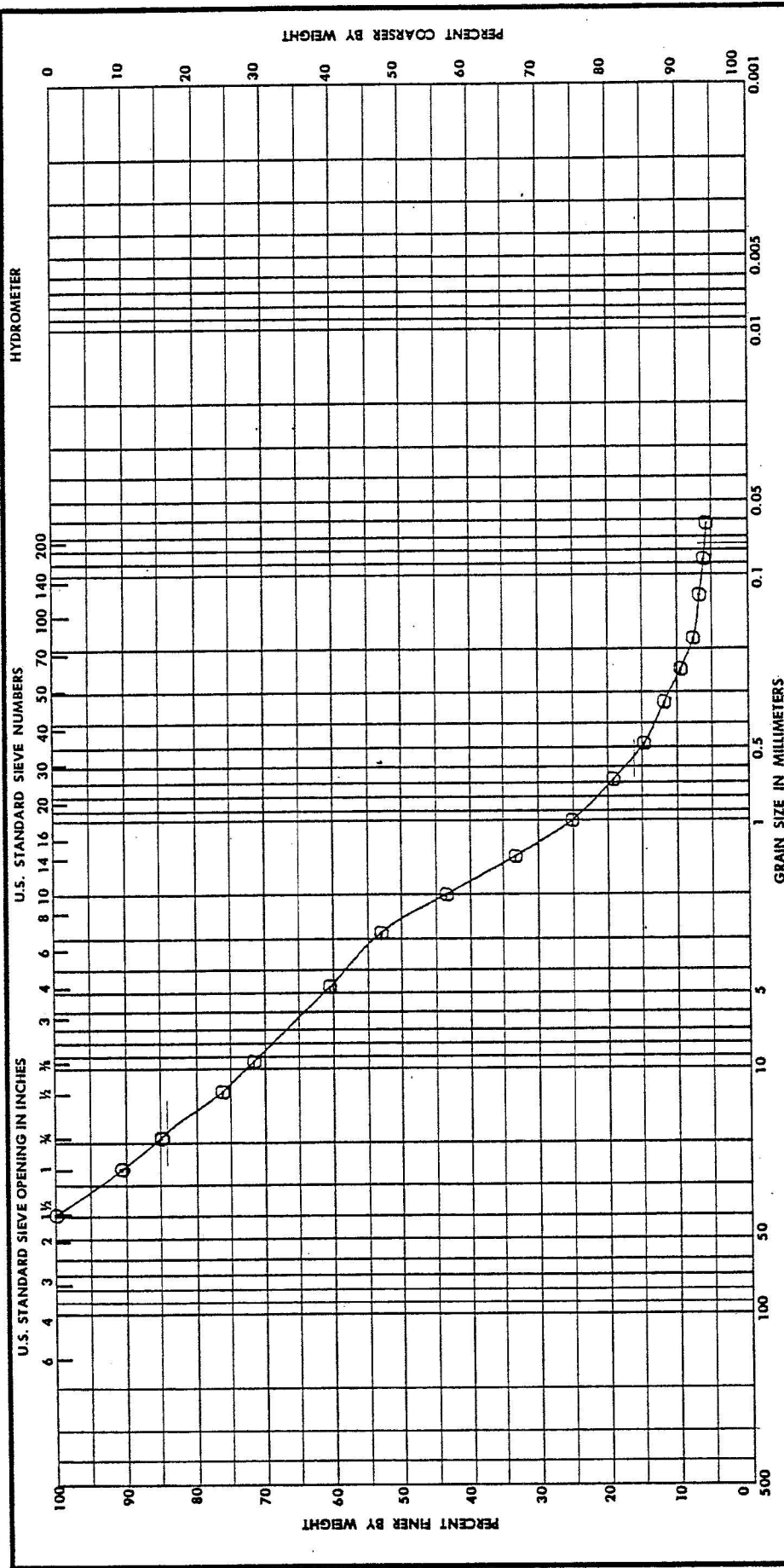
Req. No. RM-CW-85-0111



Sample No.	2	Elev. or Depth	12.0'	Nat w %	---	LL	NP	PL	NP	PI	NP
Project INDIAN RIVER COUNTY B.E.C.											
Area LAB NO.73/2023											
Boring No. CB-1R-77 SAMPLE NO.2											
Date 02/11/87											

W.O. No. 4606
 Req. No. RM-CW-85-Q111

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COBBLES		GRAVEL		SAND		SILT OR CLAY	
COARSE		FINE		COARSE		FINE	
COARSE		FINE		COARSE		FINE	
Sample No.	3	Classification	WELL GRD CLAYEY SAND (SW-SC)	Nat w %	--	LL	29
Grain Size or Depth	14.2'	BEIGE, SHELLY, (GRAVEL SIZES),		PL	13	PI	16
		WITH SOME SAND SIZE SHELL					
		VISUAL SHELL # 64.0%					
Project INDIAN RIVER COUNTY B.E.C.							
Area LAB NO. 73/2024							
Boring No. CB-1R-77 SAMPLE NO. 3							
Date 02/11/87							

GRADATION CURVES