

GRADATION ANALYSIS REPORT  
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

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

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	17	17	18
SAMPLE DEPTH (FT)	13.0	17.0	2.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	253.7	243.43	388.58
SAMPLE WT AFTER WASH	249.73	240.89	382.88

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.87	0.34	99.66	2.22	0.91	99.09	0.84	0.21	99.79
7	-1.50	2.8	2.30	0.91	99.09	2.81	1.15	98.85	1.50	0.38	99.62
10	-1.00	2	3.11	1.23	98.77	3.49	1.43	98.57	2.14	0.54	99.46
14	-0.50	1.4	3.73	1.47	98.53	3.76	1.54	98.46	2.87	0.72	99.28
18	0.00	1	4.82	1.94	98.06	4.43	1.84	98.16	3.04	0.79	99.21
25	0.50	0.71	5.82	2.28	97.71	5.30	2.16	97.82	5.40	1.35	98.65
35	1.00	0.5	9.00	3.55	96.45	7.02	2.88	97.12	7.83	1.96	98.04
45	1.50	0.355	14.30	5.67	94.33	12.63	5.21	94.79	18.71	3.44	96.56
60	2.00	0.25	33.09	13.04	86.96	37.98	15.60	84.40	37.35	9.37	90.63
80	2.50	0.18	106.13	41.83	58.17	96.45	39.62	80.38	181.17	45.45	54.55
120	3.00	0.125	166.61	65.87	34.13	130.00	78.03	21.95	330.10	82.82	17.18
170	3.50	0.09	246.09	97.00	3.00	239.71	98.47	1.53	388.69	97.77	2.23
200	3.75	0.075	248.86	98.08	1.91	240.60	98.84	1.16	381.26	98.16	1.84
230	4.00	0.063	249.32	98.27	1.73	240.81	98.92	1.08	381.41	98.20	1.80
PAN			249.52	98.35		240.90	98.96		381.88	98.32	
SIEVE LOSS			0.21			0.09			1.11		
WEIGHTED AVE(mm)			0.193			0.198			0.276		
SILT CLAY %			1.02			1.13			1.56		

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ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

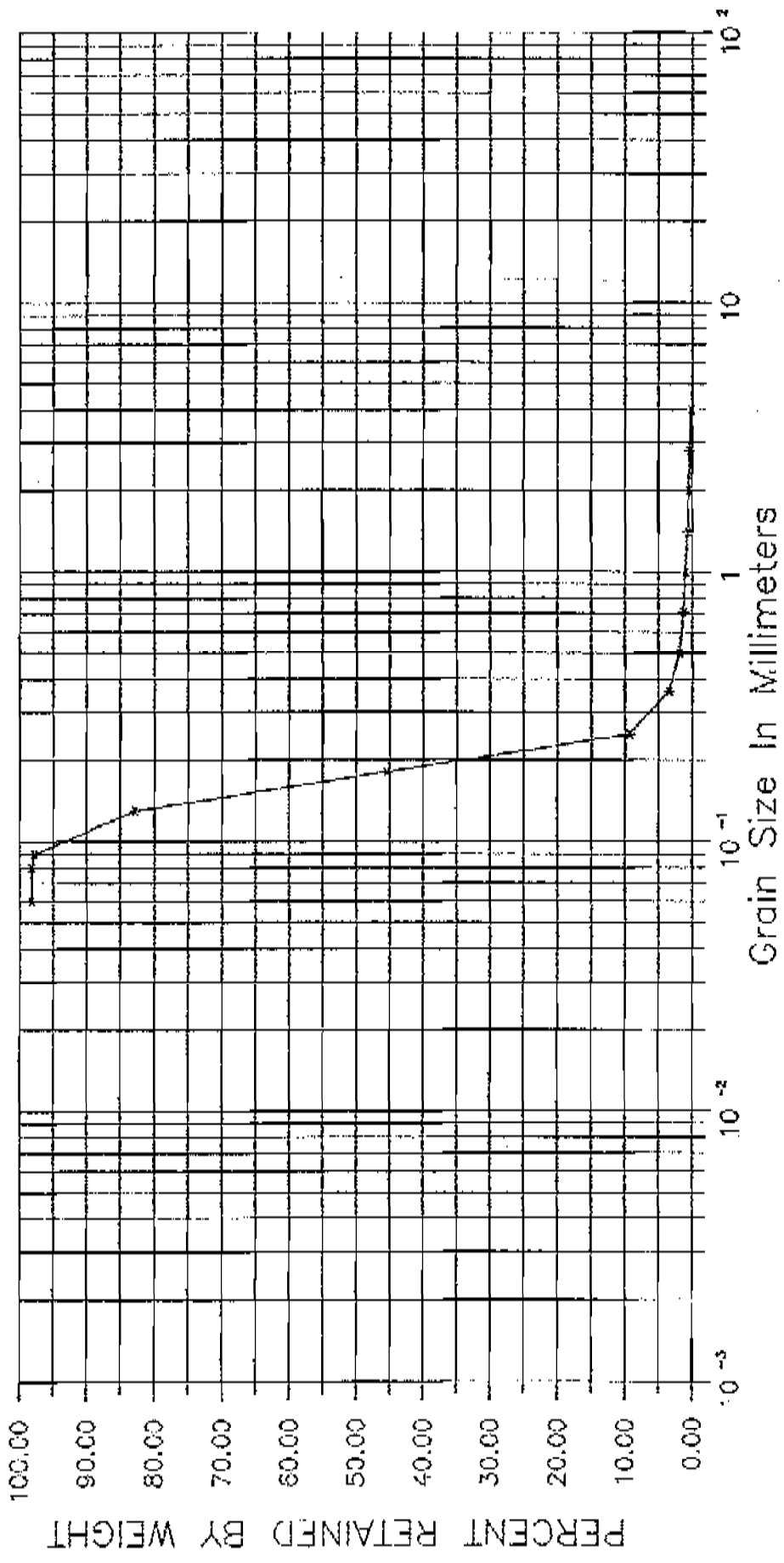
CORE NO.	10	18	18
SAMPLE DEPTH (FT)	8.0	13.0	18.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	304.4	324.5	275.50
SAMPLE WT AFTER WASH	331.61	321.5	271.20

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)										
			Z RET.	Z PASS		GRAMS	Z RET.	Z PASS		GRAMS	Z RET.	Z PASS
5	-2.00	4	0.51	0.15	99.85	0.90	0.28	99.72	0.20	0.07	99.93	
7	-1.50	2.0	0.87	0.26	99.74	1.85	0.57	99.43	0.36	0.13	99.87	
	-1.00	2	1.25	0.37	99.63	2.69	0.83	99.17	0.87	0.32	99.68	
14	-0.50	1.4	1.51	0.45	99.55	3.72	1.15	98.85	1.26	0.46	99.54	
18	0.00	1	2.08	0.62	99.38	6.84	1.95	98.05	1.98	0.68	99.32	
25	0.50	0.71	2.78	0.83	99.17	9.06	2.79	87.21	2.40	0.87	98.13	
35	1.00	0.5	5.54	1.66	98.34	20.43	6.80	93.70	3.97	1.44	98.56	
45	1.50	0.355	14.59	4.35	95.64	44.48	13.71	86.29	7.30	2.65	97.35	
60	2.00	0.25	57.15	20.08	79.92	93.87	28.03	71.07	23.59	8.56	91.44	
80	2.50	0.18	203.82	60.95	39.03	201.50	62.10	37.90	113.90	41.34	58.66	
120	3.00	0.125	274.95	82.22	17.78	286.82	88.39	11.61	215.10	78.08	21.92	
170	3.50	0.09	328.15	98.13	1.07	317.63	97.88	2.12	250.81	97.61	2.39	
200	3.75	0.075	330.82	98.03	1.07	319.40	98.43	1.57	270.09	98.04	1.96	
230	4.00	0.063	331.20	98.04	0.96	319.65	98.57	1.43	270.85	98.13	1.87	
PAN			331.32	99.08		320.14	98.66		270.78	98.29		
LOSS			0.28			1.36			0.42			
WEIGHTED AVE(mm)			0.785			0.222			0.132			
SILT-CLAY %			0.99			1.15			1.81			

# MECHANICAL ANALYSIS CHART

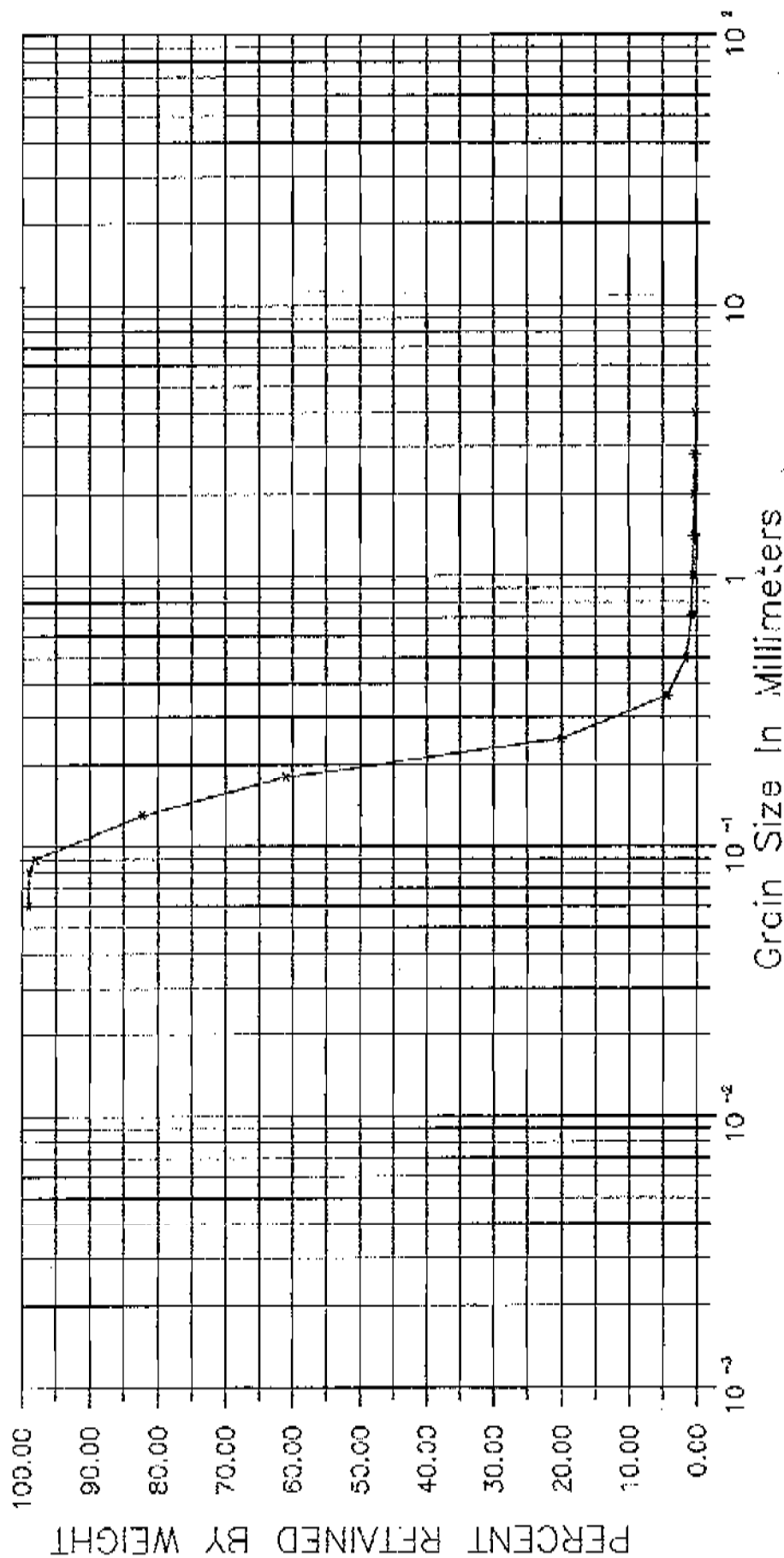


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

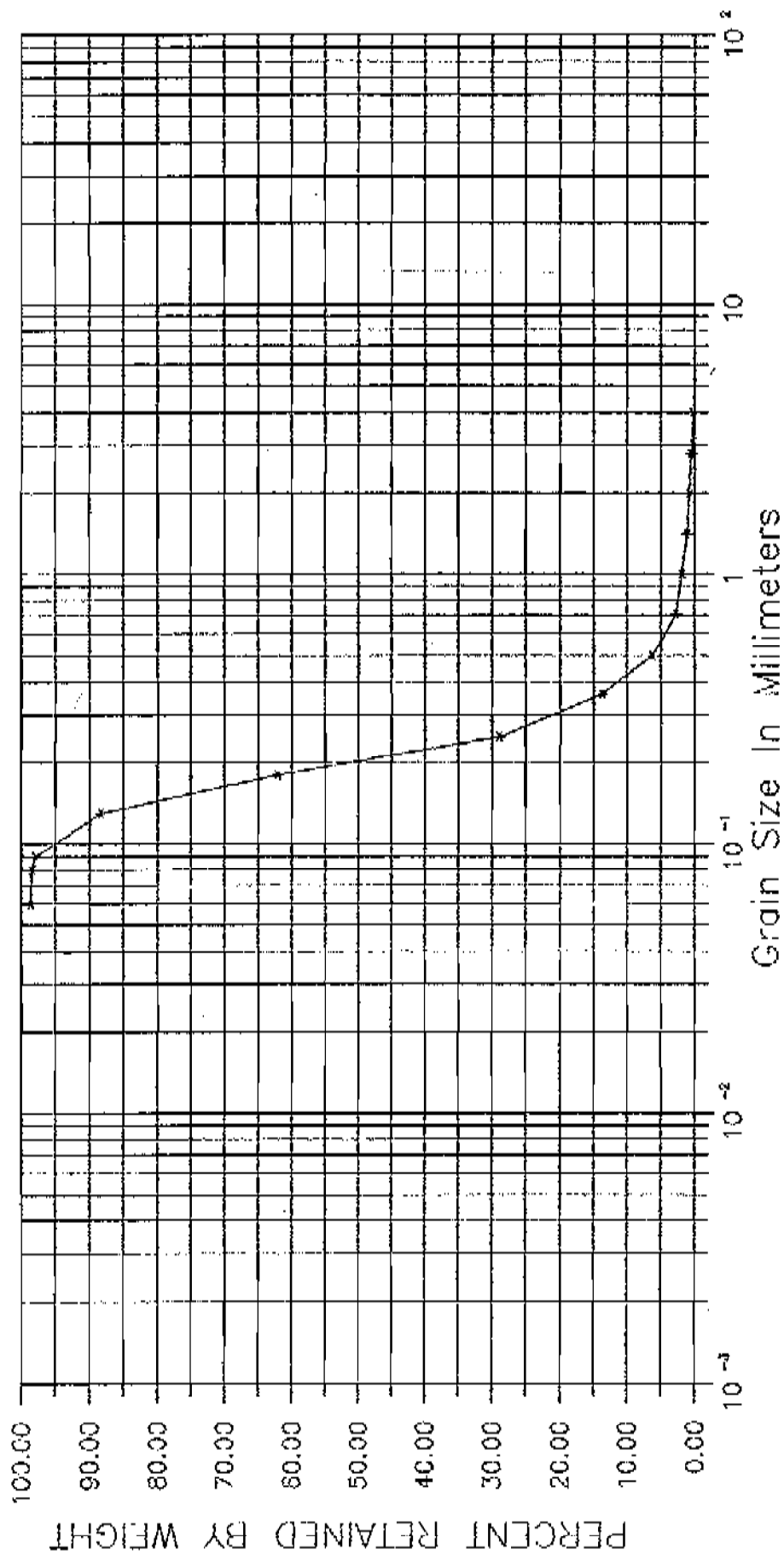
SAMPLE NO. CLASSIFICATION

18	MEAN	MEDIAN	SORTING
21	.18mm	.10mm	1.5
	.17mm	.38	
	GREY POORLY GRADED SAND - (SP)		

# MECHANICAL ANALYSIS CHART



# MECHANICAL ANALYSIS CHART

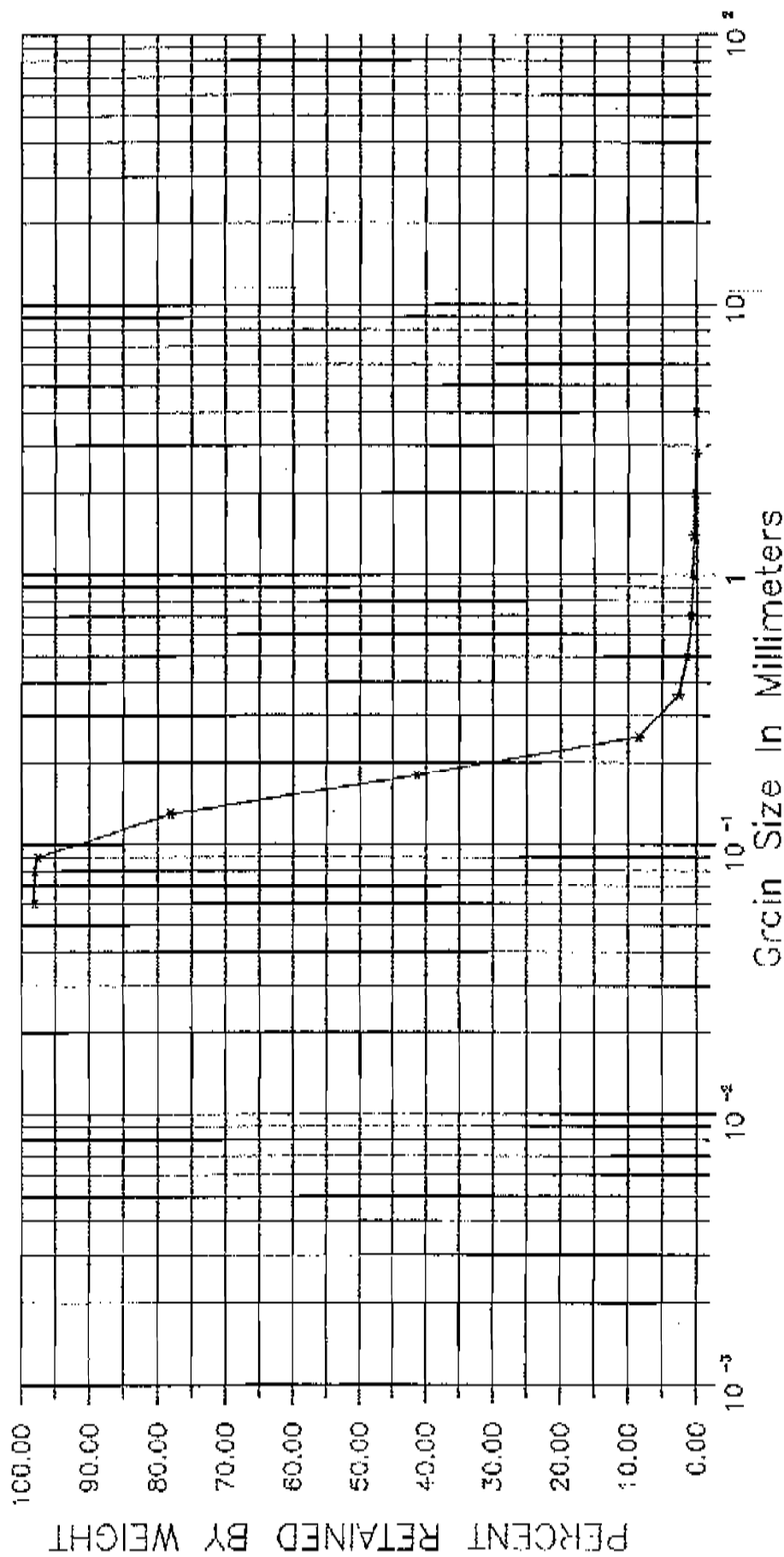


SILT OR CLAY	SAND				GRAVEL	
	FINE	NEDIUM	COARSE	FINE	COARSE	

SAMPLE NO.

18	MEAN	MEDIAN	SORTING
13	.2mm	.2mm	.67
	.2mm	.2mm	.67
	GREY POORLY GRADED SAND & SCATTERED SHELLS - (SP)		

# MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

10	MEAN	MEDIAN	SORTING
10	0.17mm	0.17mm	SD
	0.17mm	0.17mm	44
	GREY POORLY GRADED SAND - (SP)		