

GRADATION ANALYSIS REPORT  
PALM BEACH VIBROCORE SAMPLES DECEMBER 1987

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

         ENVIRONMENTAL STATION    NATURAL SOIL            FILL SAMPLES            PIT SAMPLES

CORE NO.	8					8					9				
SAMPLE DEPTH (FT)	19.7					19.0					8.2				
U.S.C.S. DESCRIPTION	SP					SP					SP				
DRY SAMPLE WT (GRAMS)	235.87					241.82					222.05				
SAMPLE WT AFTER WASH	231.91					237.51					218.45				
SIEVE SIZE	PHI	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	
5	-2.00	4	2.79	1.18	98.82	"	0.00	0.00	100.00	"	2.32	1.04	98.96	"	"
7	-1.50	2.8	4.87	2.06	97.94	"	0.11	0.05	99.95	"	2.60	1.17	98.83	"	"
10	-1.00	2	9.00	3.82	96.18	"	0.82	0.34	99.66	"	2.78	1.25	98.75	"	"
14	-0.50	1.4	15.92	6.75	93.25	"	1.04	0.78	99.24	"	3.26	1.47	98.53	"	"
18	0.00	1	30.31	12.85	87.15	"	3.51	1.45	98.55	"	4.26	1.92	98.08	"	"
25	0.50	0.71	47.95	20.33	79.67	"	6.41	2.65	97.35	"	5.61	2.53	97.47	"	"
35	1.00	0.5	77.83	33.00	67.00	"	13.72	5.67	94.33	"	10.51	4.73	95.27	"	"
45	1.50	0.355	101.78	43.15	56.85	"	28.47	11.77	88.23	"	25.51	11.49	88.51	"	"
60	2.00	0.25	120.03	50.91	49.09	"	68.41	28.28	71.71	"	68.81	30.99	69.01	"	"
80	2.50	0.18	189.55	80.36	19.64	"	163.86	67.78	32.24	"	161.10	72.55	27.45	"	"
120	3.00	0.125	222.10	94.16	5.84	"	211.10	87.30	12.70	"	201.40	89.70	9.30	"	"
170	3.50	0.09	230.51	97.73	2.27	"	235.88	97.34	2.66	"	217.05	97.75	2.25	"	"
200	3.75	0.075	231.05	97.96	2.04	"	236.61	97.05	2.15	"	217.80	98.09	1.91	"	"
250	4.00	0.063	231.23	98.03	1.97	"	236.50	97.97	2.03	"	217.81	98.14	1.86	"	"
PAN			231.30	98.06		"	236.99	98.00		"	218.30	98.31		"	"
SIEVE LOSS	0.61					0.02					0.15				
WEIGHTED AVE(mm)	0.464					0.217					0.252				
SILT-CLAY %	1.78					2.15					1.83				

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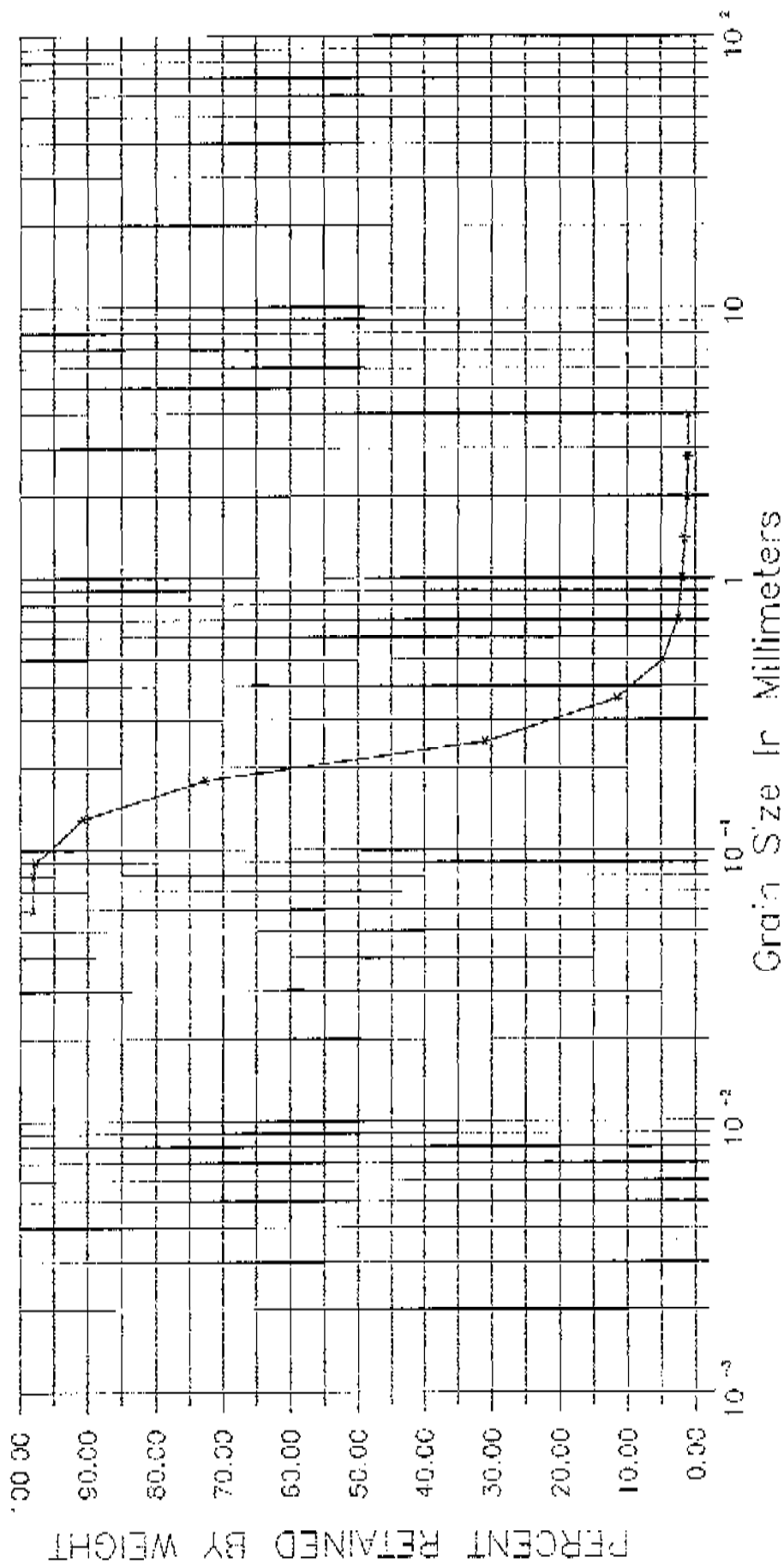
CORE NO.	9	9	9
SAMPLE DEPTH (FT)	7	14.0	18.0

U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	227.89	266.85	242.17
SAMPLE WT AFTER WASH	225.45	262.51	237.21

SIEVE SIZE	PHI SIZE	MSH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	1.20	0.58	99.47	6.79	2.54	97.46	0.39	0.16	99.84
7	-1.50	2.8	1.70	0.75	99.25	10.25	3.84	96.16	0.30	0.16	99.84
10	-1.00	2	2.14	0.94	99.06	15.72	5.89	94.11	0.42	0.17	99.83
14	-0.50	1.4	3.40	1.49	98.51	21.89	8.20	91.80	0.59	0.24	99.76
18	0.00	1	4.50	1.97	98.03	30.52	11.44	88.56	1.12	0.46	99.54
25	0.50	0.71	6.00	2.63	97.37	38.88	14.50	85.50	1.85	0.77	99.23
35	1.00	0.5	8.84	3.88	96.12	40.27	18.46	81.54	4.31	1.78	98.22
45	1.50	0.355	18.91	6.10	93.90	64.05	24.00	76.00	15.21	6.69	93.31
60	2.00	0.25	38.73	17.00	83.00	113.55	42.55	57.45	63.50	26.22	73.78
80	2.50	0.18	139.36	61.15	38.85	202.64	75.94	24.06	143.32	59.18	40.82
120	3.00	0.125	201.47	88.41	11.59	238.48	89.37	10.63	201.79	83.33	16.67
170	3.50	0.09	223.80	96.25	1.75	250.91	94.00	5.97	235.71	97.33	2.67
200	3.75	0.075	224.72	98.61	1.39	261.71	98.07	1.93	236.42	97.03	2.97
230	4.00	0.063	224.82	98.70	1.30	262.04	98.31	1.69	236.71	97.75	2.25
FIN			225.02	98.74		262.40	98.35		236.72	97.75	
SIEVE LOSS			0.43			0.11			0.49		
WEIGHTED AVE (mm)			0.216			0.444			0.181		
SILT-CLAY %			1.20			1.83			2.17		

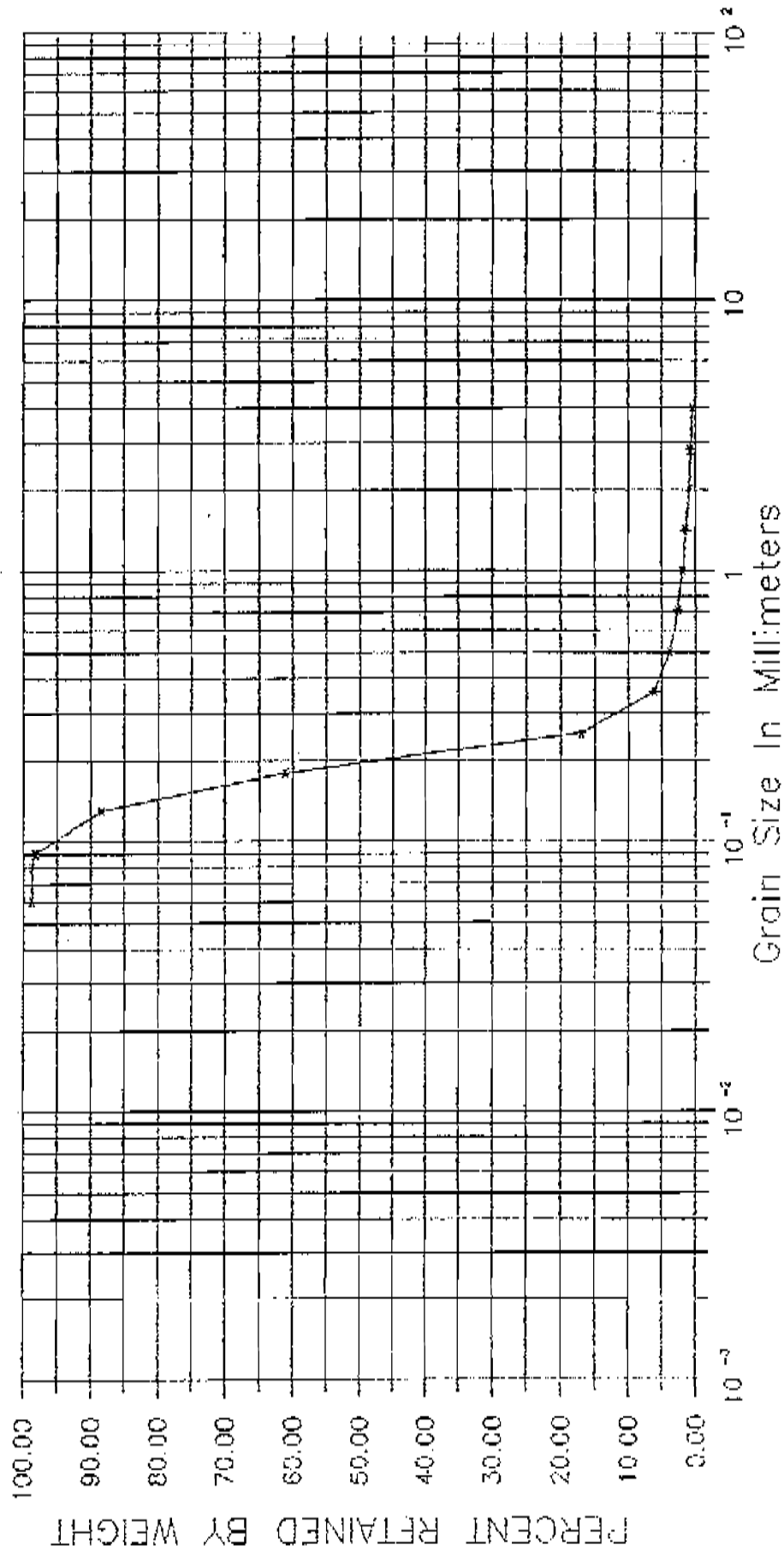
# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
9			
3.21			
	.22 mm	.21 mm	.57
	BROWN POORLY GRADED SAND & SCATTERED SHELL FRAG (S.P.)		

# MECHANICAL ANALYSIS CHART

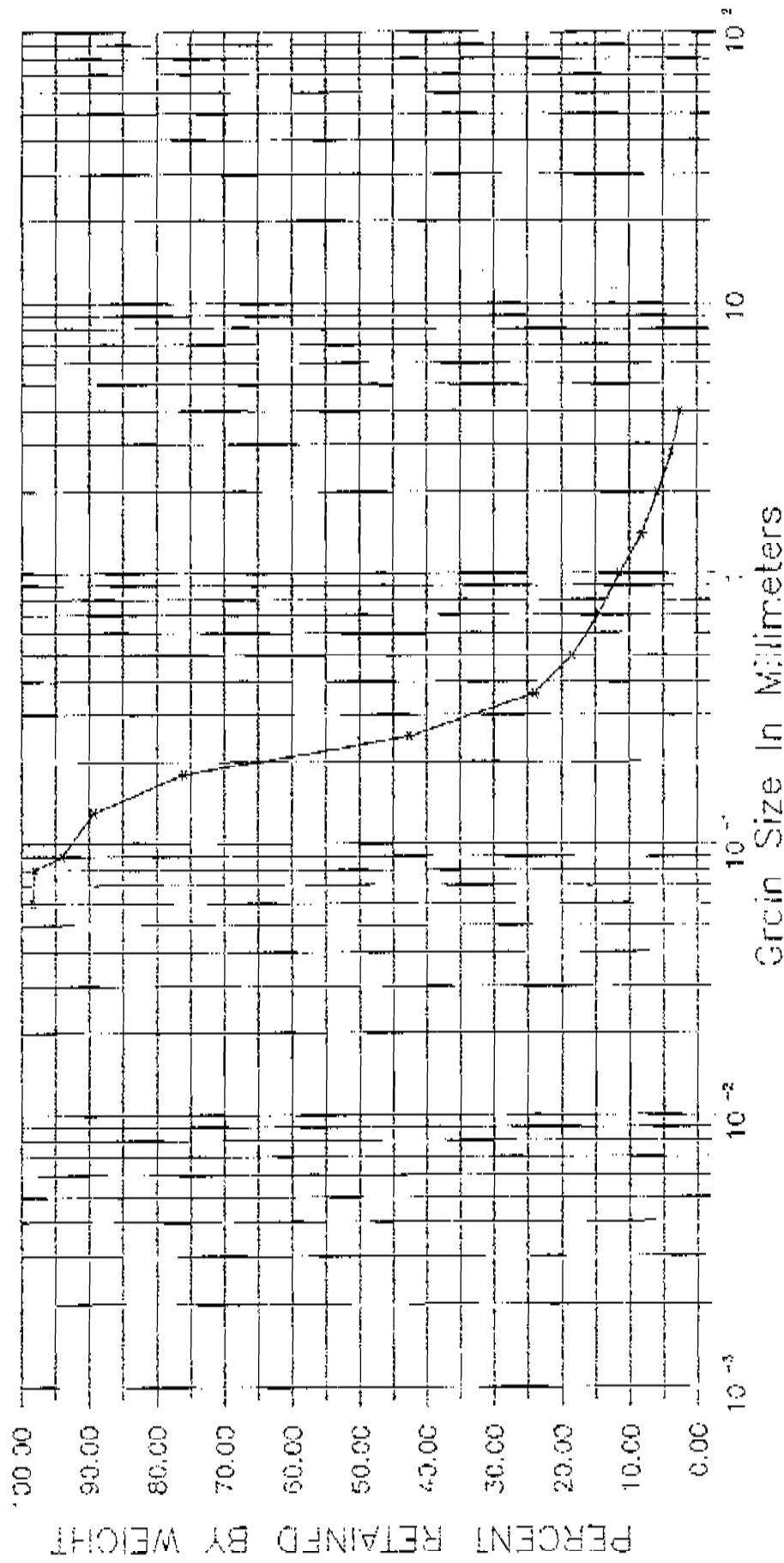


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

9	WEAR	MEDIAN	SORTING
7'	20.44	0.425	4.75
	0.19 mm	0.20 mm	0.50
	GREY POORLY GRADED SAND - (SP)		

# MECHANICAL ANALYSIS CHART



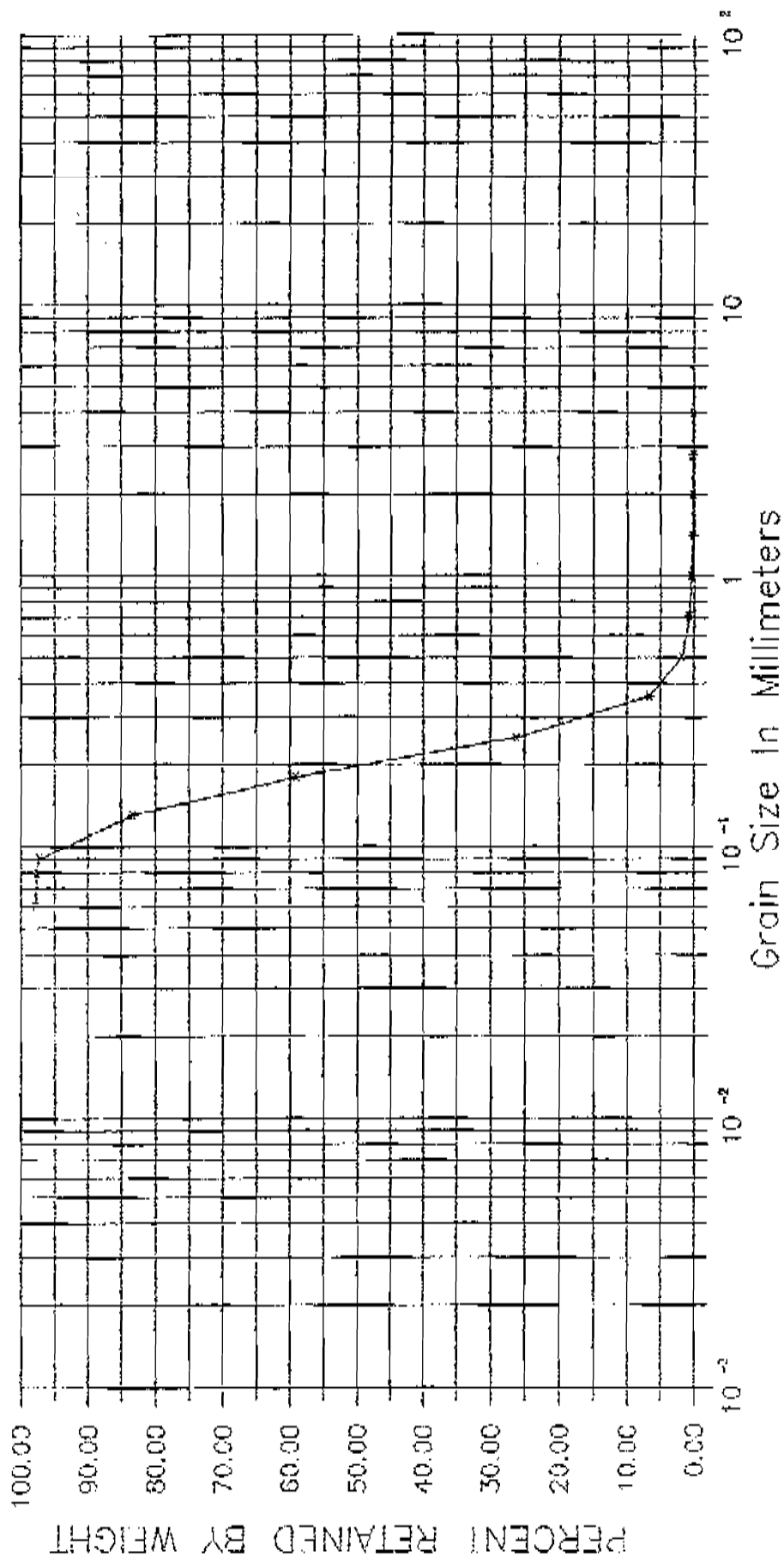
SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

4	MEAN	MEDIAN	SORTING
1412	0.27mm	0.27mm	1.00
	GREY POORLY GRADED SAND & SHELL FRAGMENTS - (SP)		

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

## SAMPLE NO. CLASSIFICATION

SAMPLE NO.	MEAN		SORTING	
	18'	20mm	20mm	60
	.20mm	.20mm	.60	.60
	BROWN POORLY GRADED SAND & SCATTERED SHELL FRAG. (SP)			