

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>7</u>	
Coordinates:	Date: <u>12-16-87</u>	Water Depth <u>35'</u> NGVD	
N = <u>857798.7</u>	Start Time <u>1132</u>	Driller <u>M.L. CLARKE</u>	
E = <u>818174.2</u>	End Time <u>1145</u>	Client Rep: <u>FRED KAUB</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u> Length of Barrel <u>20'</u> Penetration Depth <u>20'</u> Length Recovered <u>19'11"</u> Length Retained <u>19'11"</u> Remarks: <u>PENETRATION TIME 13 MIN</u>		0		GREY SAND (104R 7/1) w/ SCATTERED SMALL SHELL	2.0'	(SP)
Support Vessel <u>G.W. PIERCE</u> Positioning System <u>TRISPONDER</u> Positioning Remarks:		5			8.0'	(SP)
Weather <u>CLEAR</u> Wind Dir: <u>NW</u> Est. Speed <u>15-20K</u> Waves Dir: <u>NW</u> Height <u>1-2'</u> Current Dir: <u>N/A</u> Est. Speed:		10			13.0'	(SP)
		15		COARSE SAND & SHELL LAYER GREY SAND (104R 7/1) w/ SCATTERED SAND & SHELL CONGLOMERATES		BROWN (104R 7/4)
Analysis By: <u>F.K.</u> Date: <u>12/20/87</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL STEVE</u>		20		SHELL LAYER BROWN SAND (104R 7/3)	19.0'	(SP)

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.	7	7	7
SAMPLE DEPTH (FT)	2.0	8.0	13.0

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

DRY SAMPLE WT (GRAMS)	188.12	286.92	255.55
SAMPLE WT AFTER WASH	185.1	284.76	250.55

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.00	0.00	100.00	,	0.00	0.00	100.00	,	0.10	0.04	99.96	,
7	-1.50	2.8	0.44	0.23	99.77	,	0.10	0.03	99.97	,	0.10	0.04	99.96	,
10	-1.00	2	0.60	0.32	99.68	,	0.41	0.14	99.86	,	0.19	0.07	99.93	,
14	-0.50	1.4	0.70	0.37	99.63	,	0.61	0.21	99.79	,	0.53	0.21	99.79	,
18	0.00	1	0.95	0.50	99.50	,	1.14	0.40	99.60	,	0.59	0.23	99.77	,
25	0.50	0.71	1.40	0.74	99.26	,	2.01	0.70	99.30	,	1.40	0.55	99.45	,
35	1.00	0.5	2.06	1.10	98.90	,	3.49	1.22	98.78	,	2.84	1.11	98.89	,
45	1.50	0.355	4.28	2.28	97.72	,	6.61	2.30	97.70	,	6.64	2.60	97.40	,
60	2.00	0.25	23.71	12.60	87.40	,	30.20	10.53	89.47	,	20.22	7.91	92.09	,
80	2.50	0.18	120.30	63.95	36.05	,	197.35	68.78	31.22	,	112.15	43.89	56.11	,
120	3.00	0.125	167.78	89.19	10.81	,	258.15	89.97	10.03	,	213.70	83.62	16.38	,
170	3.50	0.09	184.59	98.12	1.88	,	281.46	98.10	1.90	,	249.51	97.64	2.36	,
200	3.75	0.075	185.03	98.36	1.64	,	282.59	98.49	1.51	,	250.38	97.98	2.02	,
230	4.00	0.063	185.06	98.37	1.63	,	283.00	98.63	1.37	,	250.51	98.03	1.97	,
PAN			185.09	98.39		,	283.17	98.69		,	250.53	98.04		,

SIEVE LOSS	0.01	1.59	0.02
WEIGHTED AVE(mm)	0.180	0.176	0.160
SILT-CLAY %	1.64	0.95	2.02

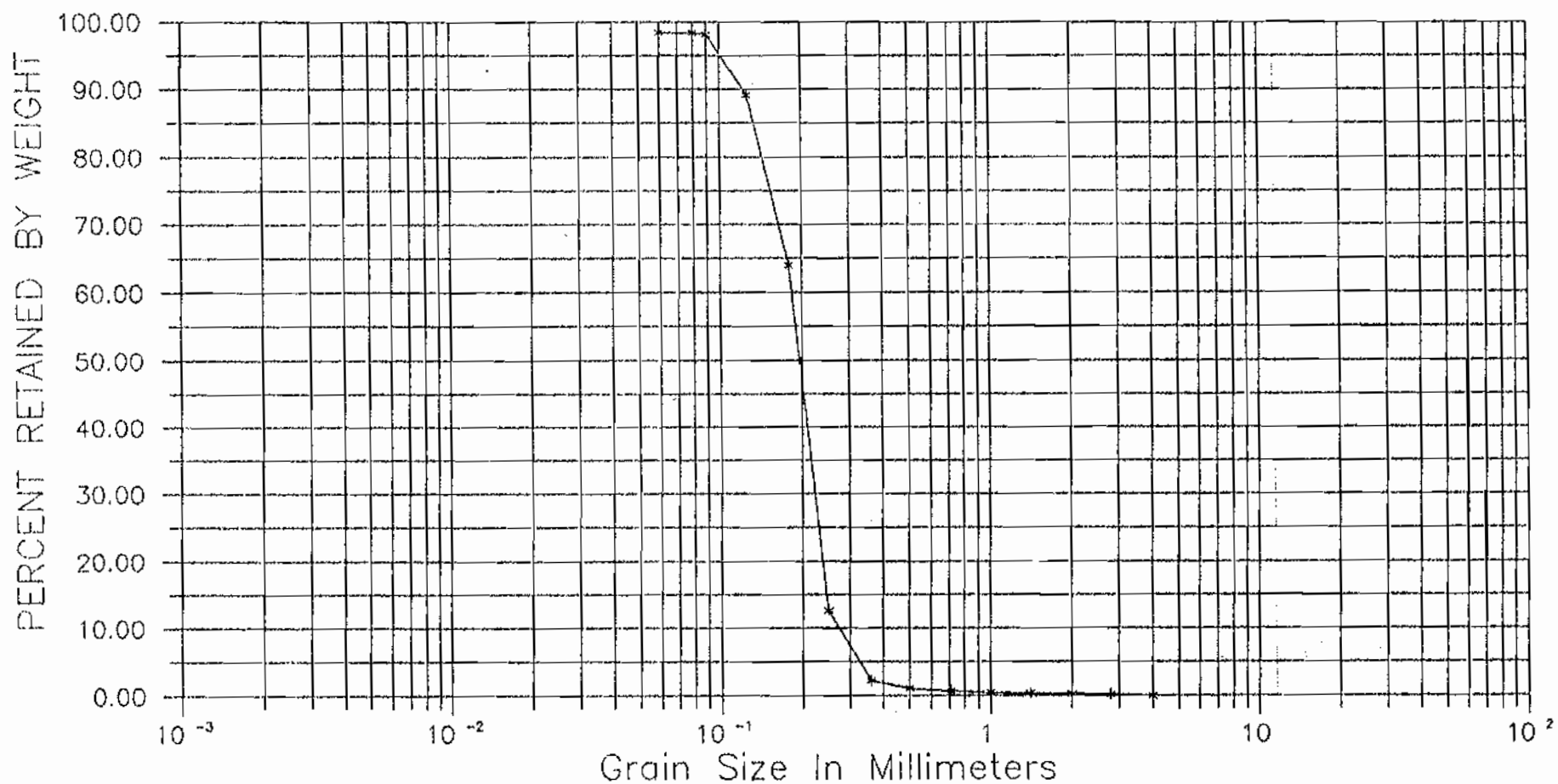
GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

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

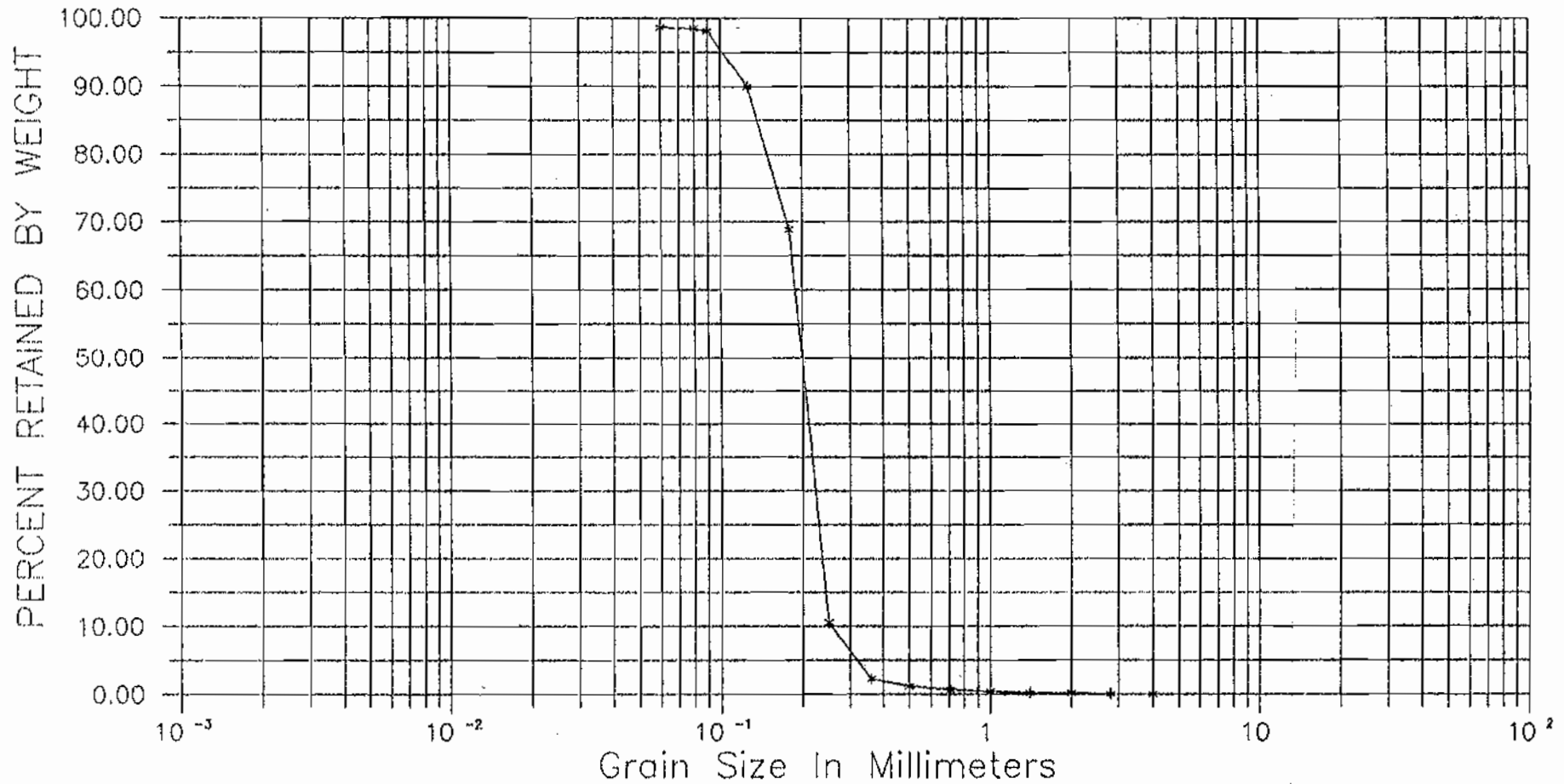
 ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	7					8					8				
SAMPLE DEPTH (FT)	19.0					2.0					8.0				
U.S.C.S. DESCRIPTION	SP					SP					SP				
DRY SAMPLE WT (GRAMS)	262.93					181.71					180.62				
SAMPLE WT AFTER WASH	257.52					176.95					177.34				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	
5	-2.00	4	6.91	2.63	97.37	'	0.00	0.00	100.00	'	0.42	0.23	99.77	'	
7	-1.50	2.8	7.93	3.02	96.98	'	0.10	0.06	99.94	'	0.51	0.28	99.72	'	
10	-1.00	2	8.64	3.29	96.71	'	0.18	0.10	99.90	'	0.64	0.35	99.65	'	
14	-0.50	1.4	10.88	4.14	95.86	'	0.30	0.17	99.83	'	1.07	0.59	99.41	'	
18	0.00	1	14.50	5.51	94.49	'	0.58	0.32	99.68	'	1.39	0.77	99.23	'	
25	0.50	0.71	21.00	7.99	92.01	'	0.81	0.45	99.55	'	2.02	1.12	98.88	'	
35	1.00	0.5	33.52	12.75	87.25	'	1.72	0.95	99.05	'	4.39	2.43	97.57	'	
45	1.50	0.355	62.38	23.72	76.28	'	15.67	8.62	91.38	'	16.80	9.30	90.70	'	
60	2.00	0.25	104.85	39.88	60.12	'	38.61	21.25	78.75	'	47.47	26.28	73.72	'	
80	2.50	0.18	180.16	68.52	31.48	'	115.00	63.29	36.71	'	115.01	63.68	36.32	'	
120	3.00	0.125	226.00	85.95	14.05	'	166.37	91.56	8.44	'	167.89	92.95	7.05	'	
170	3.50	0.09	255.55	97.19	2.81	'	175.92	96.81	3.19	'	176.04	97.46	2.54	'	
200	3.75	0.075	256.61	97.60	2.40	'	176.34	97.04	2.96	'	176.41	97.67	2.33	'	
230	4.00	0.063	256.91	97.71	2.29	'	176.40	97.08	2.92	'	176.47	97.70	2.30	'	
PAN			257.22	97.83		'	176.40	97.08		'	176.50	97.72		'	
SIEVE LOSS	0.30					0.55					0.84				
WEIGHTED AVE(mm)	0.360					0.190					0.206				
SILT-CLAY %	2.29					2.65					1.87				

MECHANICAL ANALYSIS CHART



MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

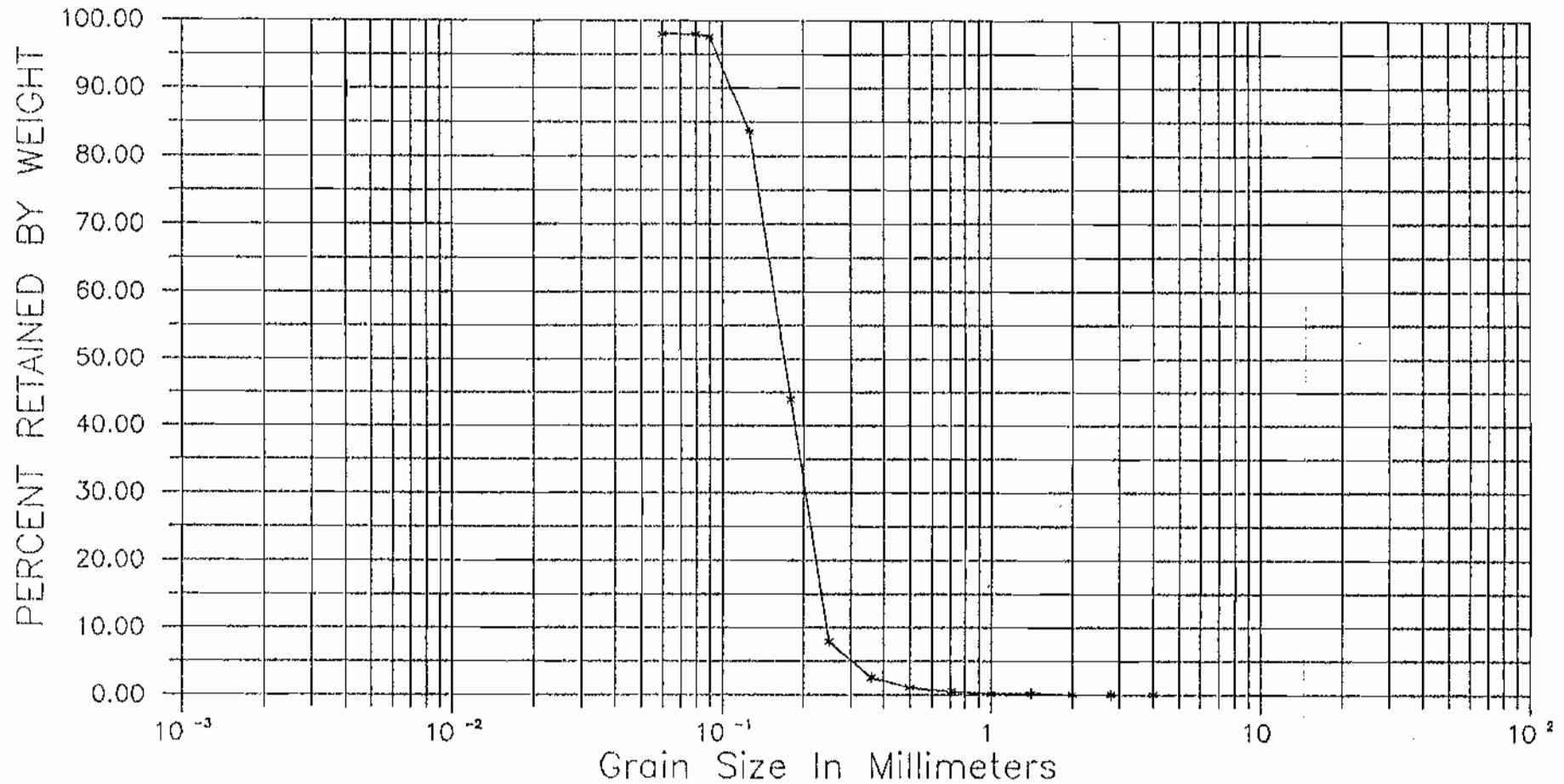
SAMPLE NO.

CLASSIFICATION

7	MEAN	MEDIAN	SORTING
8'	19mm	20mm	3.7
	19mm	20mm	.31
	GREY POORLY GRADED SAND - (SP)		

60

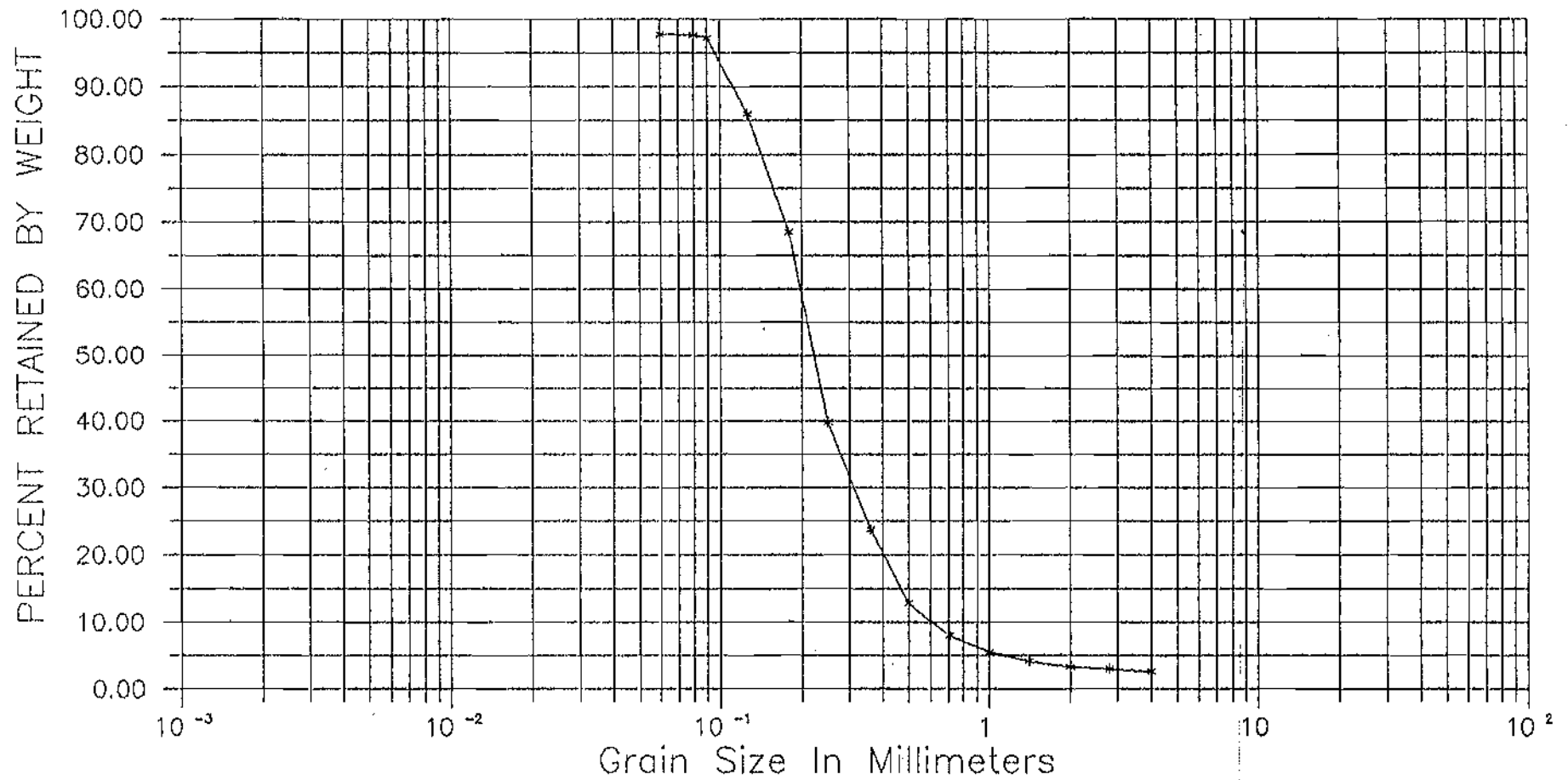
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
7	MEAN	MEDIAN	SORTING
13'	.17mm	.17mm	.41
	.17mm	.18mm	.35
	GREY POORLY GRADED SAND-(SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
7	MEAN	MEDIAN	SORTING
19'	0.24mm	0.20mm	4.2
	0.24mm	0.22mm	0.83
	BROWN POORLY GRADED SAND & SHELL FRAGMENTS-(SP)		