

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>5</u>	
Coordinates:		Date: <u>12/16/87</u>	Water Depth <u>32'</u> NGVD
N = <u>856447.2</u>		Start Time <u>0829</u>	Driller <u>M.L. CLARKE</u>
E = <u>817979.7</u>		End Time <u>0840</u>	Client Rep. <u>JEFF ANDREWS</u> <u>FRED KAUB</u>

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0				
Length of Barrel <u>20'</u>				GREY SAND (1042 5/1)		
Penetration Depth <u>19'6"</u>					2.0'	(SP)
Length Recovered <u>19'6"</u>						
Length Retained <u>19'6"</u>				GREY SAND (1042 7/1)		
Remarks: <u>PENETRATION TIME 11 MIN</u>		5				
Support Vessel <u>G.W. PIERCE</u>				GREY SAND (1042 6/1)		
Positioning System <u>TRISPONDER</u>					7.0'	(SP)
Positioning Remarks:						
		10				
Weather <u>CLEAR</u>				GREY SAND (1042 7/1)		
Wind				SHELL LAYER		
Dir: <u>NW</u>						
Est. Speed <u>15-20K</u>				GREY SAND (1042 6/1)		
Waves				w/ SCATTERED SHELL FRAG	14.7'	(SP)
Dir: <u>NW</u>		15				
Height <u>1-2'</u>				GREY SAND (1042 7/1)		
Current				w/ SCATTERED SHELL FRAG	17.7'	(SP)
Dir: <u>N/A</u>						
Est. Speed:				GREY SAND (1042 7/1)		
				w/ SCATTERED SHELL FRAG SHELL LAYER		
Analysis By: <u>FK</u>		20				
Date: <u>12/20/87</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>						

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.	4	5	5											
SAMPLE DEPTH (FT)	19.0	2.0	7											
U.S.C.S. DESCRIPTION	SP					SP					SP			
DRY SAMPLE WT (GRAMS)	212.98					232.51					231.48			
SAMPLE WT AFTER WASH	209.68					229.91					228.92			
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	,	1.39	0.60	99.40	,	0.00	0.00	100.00	,
7	-1.50	2.8	0.40	0.19	99.81	,	2.06	0.89	99.11	,	0.61	0.26	99.74	,
10	-1.00	2	0.75	0.35	99.65	,	3.00	1.29	98.71	,	0.64	0.28	99.72	,
14	-0.50	1.4	1.00	0.47	99.53	,	5.31	2.28	97.72	,	0.97	0.42	99.58	,
18	0.00	1	1.25	0.59	99.41	,	6.27	2.70	97.30	,	1.37	0.59	99.41	,
25	0.50	0.71	1.80	0.85	99.15	,	8.63	3.71	96.29	,	2.15	0.93	99.07	,
35	1.00	0.5	2.84	1.33	98.67	,	12.42	5.34	94.66	,	4.22	1.82	98.18	,
45	1.50	0.355	9.50	4.46	95.54	,	20.00	8.60	91.40	,	12.80	5.53	94.47	,
60	2.00	0.25	29.17	13.70	86.30	,	41.99	18.06	81.94	,	70.00	30.24	69.76	,
80	2.50	0.18	100.97	47.41	52.59	,	133.95	57.61	42.39	,	161.45	69.75	30.25	,
120	3.00	0.125	169.05	79.37	20.63	,	199.22	85.68	14.32	,	211.45	91.35	8.65	,
170	3.50	0.09	207.16	97.27	2.73	,	228.41	98.24	1.76	,	227.80	98.41	1.59	,
200	3.75	0.075	208.42	97.86	2.14	,	229.37	98.65	1.35	,	228.45	98.69	1.31	,
230	4.00	0.063	208.92	98.09	1.91	,	229.62	98.76	1.24	,	228.73	98.81	1.19	,
PAN			209.49			,	229.74			,	228.80			,
SIEVE LOSS	0.19						0.17					0.12		
WEIGHTED AVE(mm)	0.171						0.230					0.201		
SILT-CLAY %	2.05						1.28					1.26		

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.	5	5	6
SAMPLE DEPTH (FT)	14.7	17.7	3.0

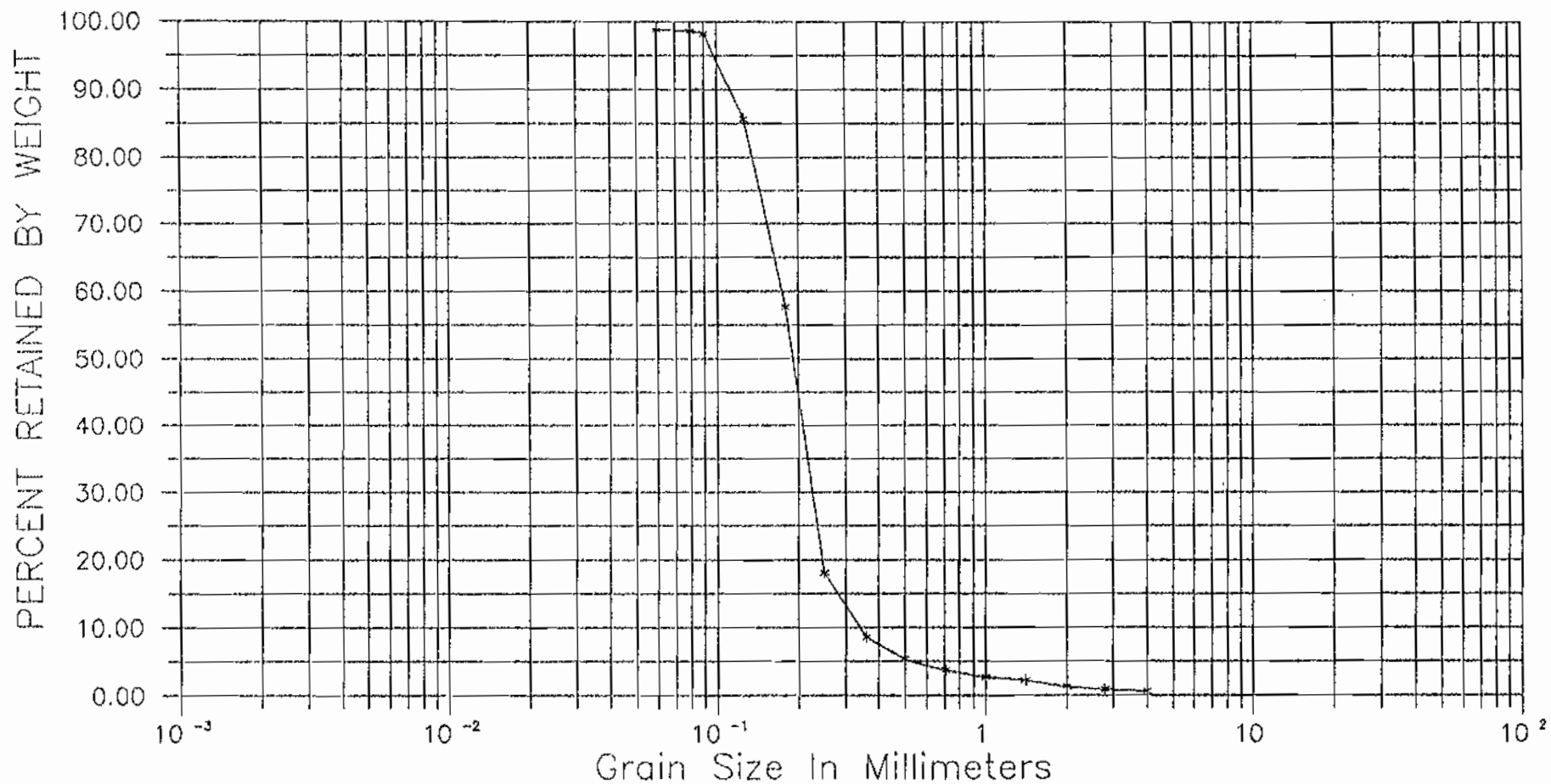
U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	221.69	227.12	237.21
SAMPLE WT AFTER WASH	216.49	222.32	232.77

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	5.07	2.28	97.72	'	0.00	0.00	100.00	'	0.61	0.26	99.74	'
7	-1.50	2.8	6.83	3.08	96.92	'	0.31	0.14	99.86	'	1.13	0.48	99.52	'
10	-1.00	2	9.47	4.27	95.73	'	0.87	0.38	99.62	'	1.53	0.64	99.36	'
14	-0.50	1.4	13.49	6.09	93.91	'	1.32	0.58	99.42	'	2.39	1.01	98.99	'
18	0.00	1	18.15	8.19	91.81	'	1.95	0.86	99.14	'	3.35	1.41	98.59	'
25	0.50	0.71	23.49	10.60	89.40	'	2.63	1.16	98.84	'	4.76	2.01	97.99	'
35	1.00	0.5	29.44	13.28	86.72	'	4.82	2.12	97.88	'	7.59	3.20	96.80	'
45	1.50	0.355	37.75	17.03	82.97	'	13.49	5.94	94.06	'	14.81	6.24	93.76	'
60	2.00	0.25	58.78	26.51	73.49	'	52.80	23.25	76.75	'	46.17	19.46	80.54	'
80	2.50	0.18	126.10	56.88	43.12	'	137.55	60.56	39.44	'	139.40	58.77	41.23	'
120	3.00	0.125	184.45	83.20	16.80	'	192.48	84.75	15.25	'	207.33	87.40	12.60	'
170	3.50	0.09	214.10	96.58	3.42	'	221.20	97.39	2.61	'	230.99	97.38	2.62	'
200	3.75	0.075	216.00	97.43	2.57	'	222.00	97.75	2.25	'	231.74	97.69	2.31	'
230	4.00	0.063	216.31	97.57	2.43	'	222.12	97.80	2.20	'	231.80	97.72	2.28	'
PAN			216.40			'	222.15			'	232.00			'

SIEVE LOSS	0.09	0.17	0.77
WEIGHTED AVE (mm)	0.362	0.193	0.204
SILT-CLAY %	2.53	2.18	1.98

MECHANICAL ANALYSIS CHART



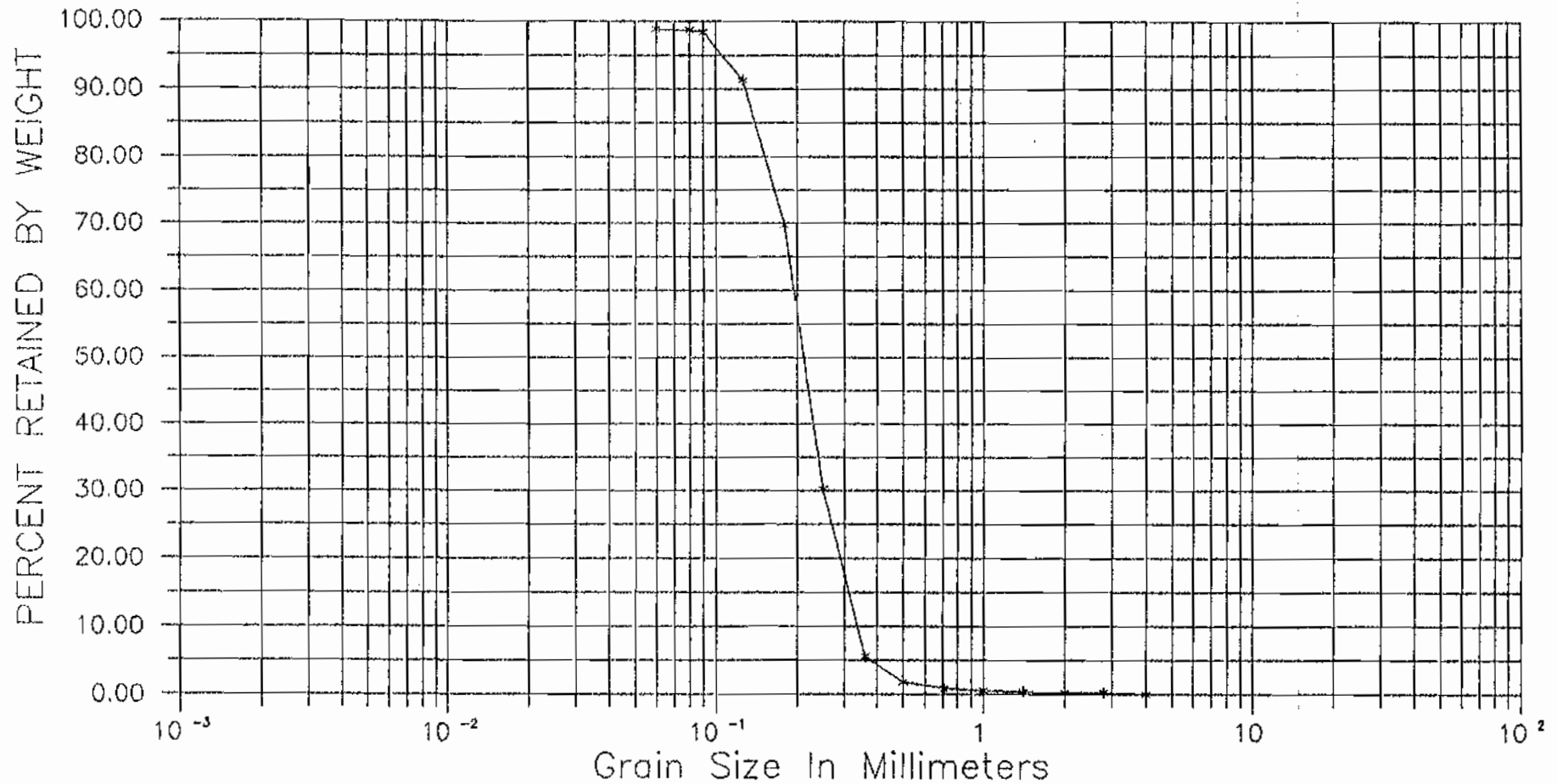
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
5			
2'	.19 mm	.19 mm	55
	.18 mm	.17 mm	.50
GREY POORLY GRADED SAND - (SP)			

MECHANICAL ANALYSIS CHART



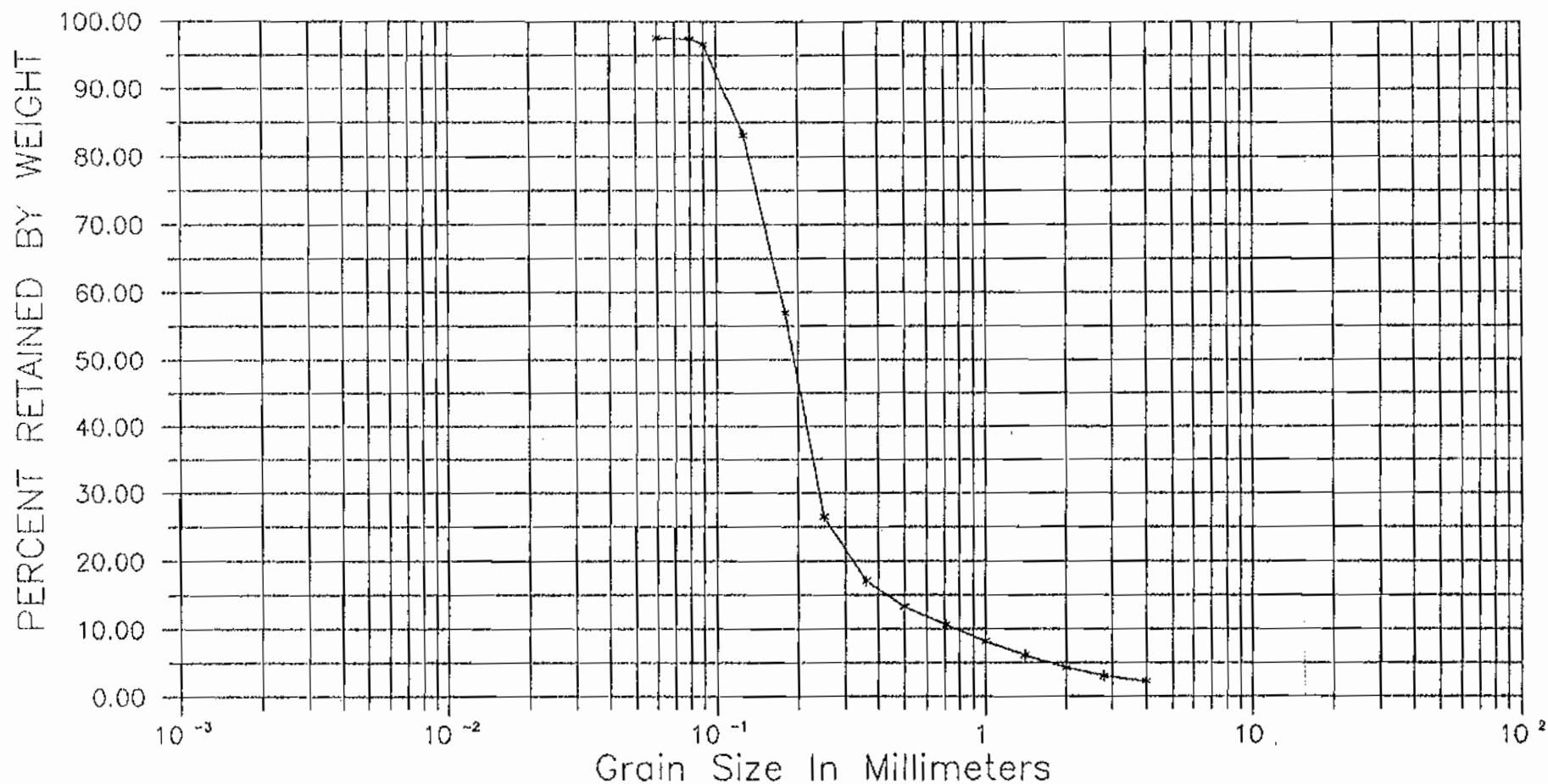
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING
5	.22 mm	.22 mm	.52
7'	.21 mm	.21 mm	.55
GREY POORLY GRADED SAND -(SP)			

MECHANICAL ANALYSIS CHART



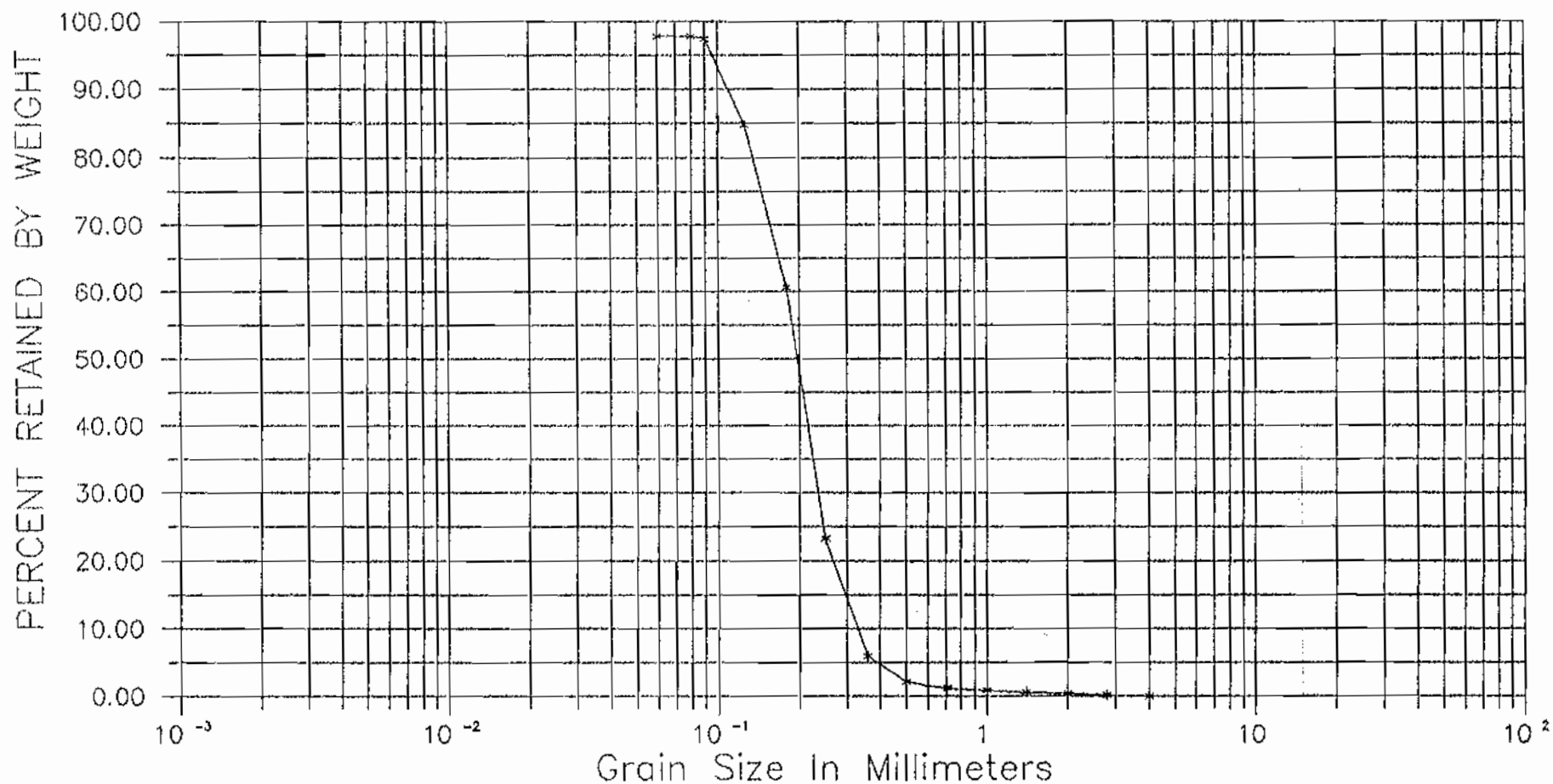
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING
5			
14.7'	.22 mm	.1 mm	.70
	.22 mm	.20	.81
GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)			

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
5			
17.7'	.20	.20	.50
	.20	.20	.60
GREY POORLY GRADED SAND & SHELL - (SP)			