

## VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>18</u>	
Coordinates: N = <u>869606.4</u> E = <u>818321.1</u>		Date: <u>12-17-87</u> Start Time <u>1808</u> End Time <u>1820</u>	
		Water Depth <u>44'</u> NGVD Driller <u>M.L. CLARKE</u> <u>JEFF ANDREWS</u> Client Rep. <u>KIM BEACHLER</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0		GREY SAND (104R 7/1)		
Length of Barrel <u>20.0'</u>						
Penetration Depth <u>20.0'</u>						
Length Recovered <u>19.0'</u>						
Length Retained <u>19.0'</u>						
Remarks: <u>PENETRATION TIME 12MIN</u>						
Support Vessel <u>G.W. PIERCE</u>		5				
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:						
		10				
Weather <u>CLEAR</u>						
Wind Dir: <u>NW</u>						
Est. Speed <u>10-15K</u>						
Waves Dir: <u>NW</u>						
Height <u>3-5'</u>						
Current Dir: <u>N/A</u>						
Est. Speed: _____						
		15		<del>SILTY SAND LAYER</del> GREY COARSE SAND (104R 7/1) W SCATTERED SHELL & CORAL	13.0'	(SP)
Analysis By: <u>FK</u>						
Date: <u>12-21-87</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>						
		20		<del>SHELL LAYER</del> GREY SAND (104R 7/1)	18.0'	(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.	17	17	18
SAMPLE DEPTH (FT)	13.0	17.0	2.0

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

DRY SAMPLE WT (GRAMS)	253.7	243.43	398.58
SAMPLE WT AFTER WASH	249.73	240.99	392.99

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	4.92	1.94	98.06	,	4.49	1.84	98.16	,	3.94	0.99	99.01	,
25	0.50	0.71	5.82	2.29	97.71	,	5.30	2.18	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	14.39	5.67	94.33	,	12.69	5.21	94.79	,	13.71	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	60.38	,	181.17	45.45	54.55	,
120	3.00	0.125	166.61	65.67	34.33	,	190.00	78.05	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	,	389.69	97.77	2.23	,
200	3.75	0.075	248.86	98.09	1.91	,	240.60	98.84	1.16	,	391.26	98.16	1.84	,
230	4.00	0.063	249.32	98.27	1.73	,	240.81	98.92	1.08	,	391.41	98.20	1.80	,
PAN			249.52	98.35		,	240.90	98.96		,	391.88	98.32		,

SIEVE LOSS	0.21	0.09	1.11
WEIGHTED AVE (mm)	0.193	0.198	0.276
SILT-CLAY %	1.82	1.13	1.56

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.	18	18	18
SAMPLE DEPTH (FT)	8.0	13.0	18.0

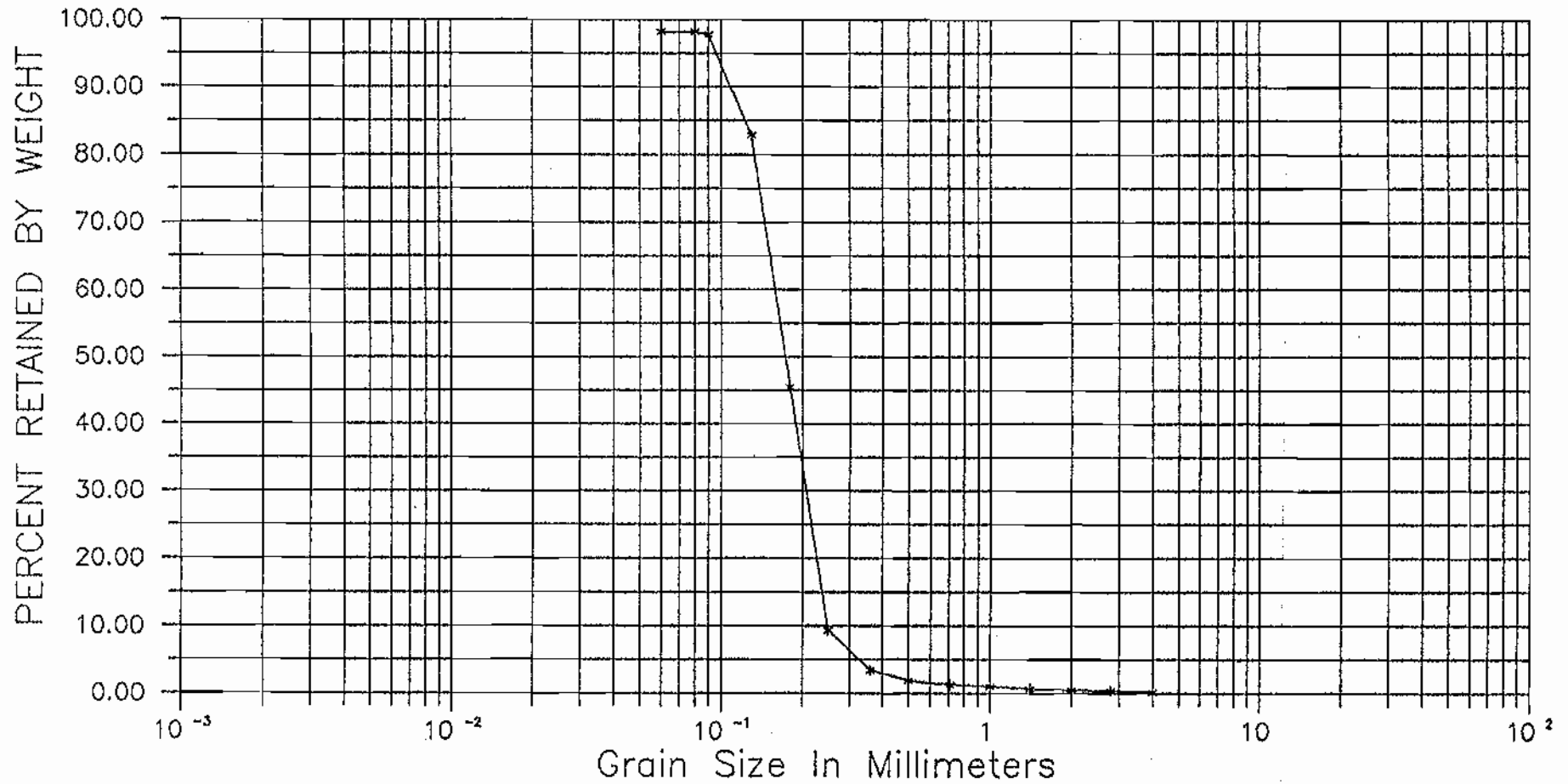
U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	334.4	324.5	275.50
SAMPLE WT AFTER WASH	331.61	321.5	271.20

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)									
			% RET.	% PASS		GRAMS	% RET.	% PASS	GRAMS	% RET.	% 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	2.8	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	6.34	1.95	98.05	1.88	0.68	99.32
25	0.50	0.71	2.76	0.83	99.17	9.06	2.79	97.21	2.40	0.87	99.13
35	1.00	0.5	5.54	1.66	98.34	20.45	6.30	93.70	3.97	1.44	98.56
45	1.50	0.355	14.59	4.36	95.64	44.49	13.71	86.29	7.30	2.65	97.35
60	2.00	0.25	67.15	20.08	79.92	93.87	28.93	71.07	23.59	8.56	91.44
80	2.50	0.18	203.82	60.95	39.05	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	1.87	317.63	97.88	2.12	268.91	97.61	2.39
200	3.75	0.075	330.82	98.93	1.07	319.40	98.43	1.57	270.09	98.04	1.96
230	4.00	0.063	331.20	99.04	0.96	319.85	98.57	1.43	270.35	98.13	1.87
PAN			331.33	99.08		320.14	98.66		270.78	98.29	

% LOSS	0.28	1.36	0.42
WEIGHTED AVE(mm)	0.185	0.222	0.132
SILT-CLAY %	0.99	1.15	1.81

# MECHANICAL ANALYSIS CHART



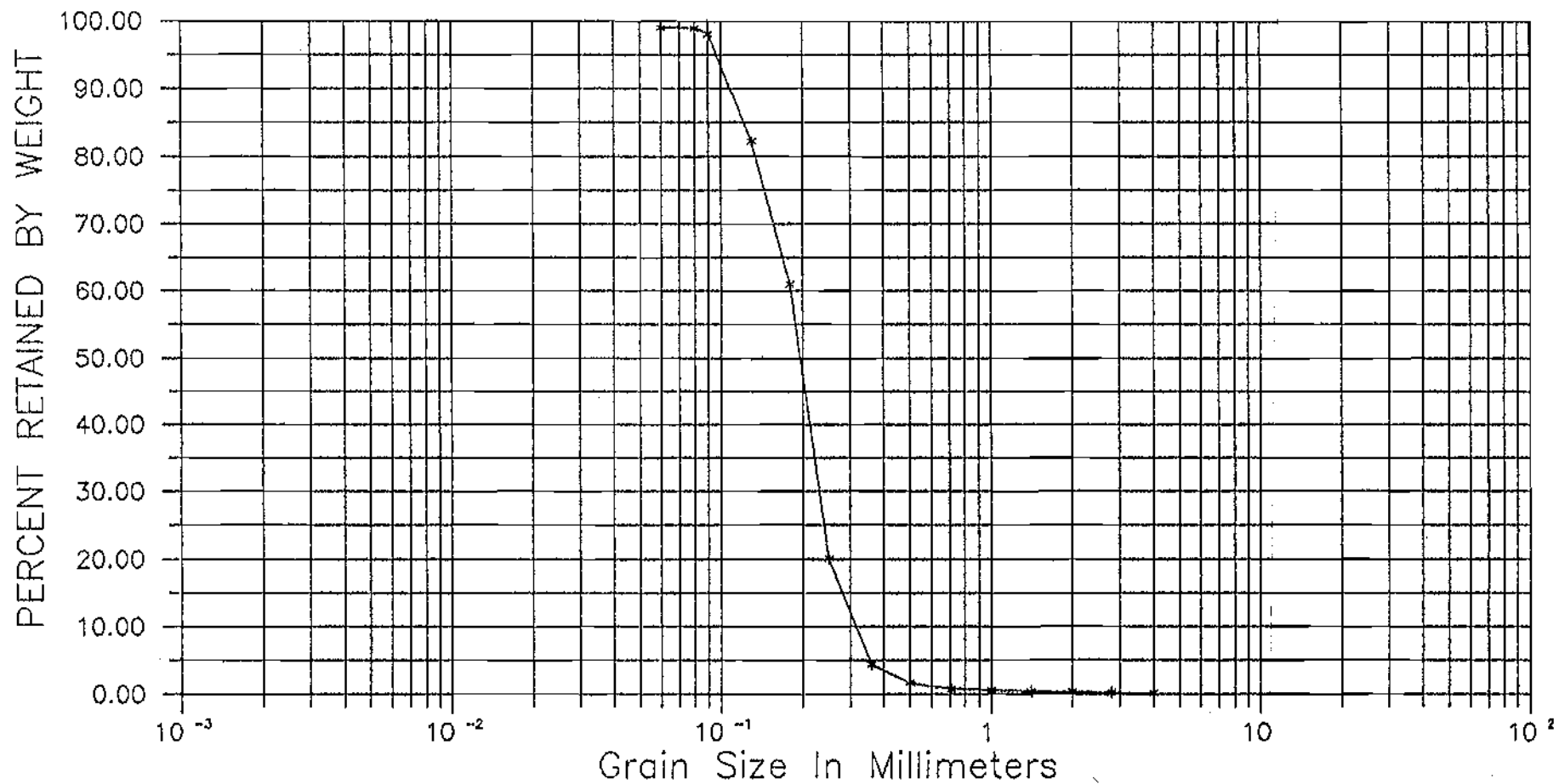
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING
18			
21	.18mm	.18mm	.39
	.17mm	.17mm	.38
	GREY POORLY GRADED SAND - (SP)		

# MECHANICAL ANALYSIS CHART



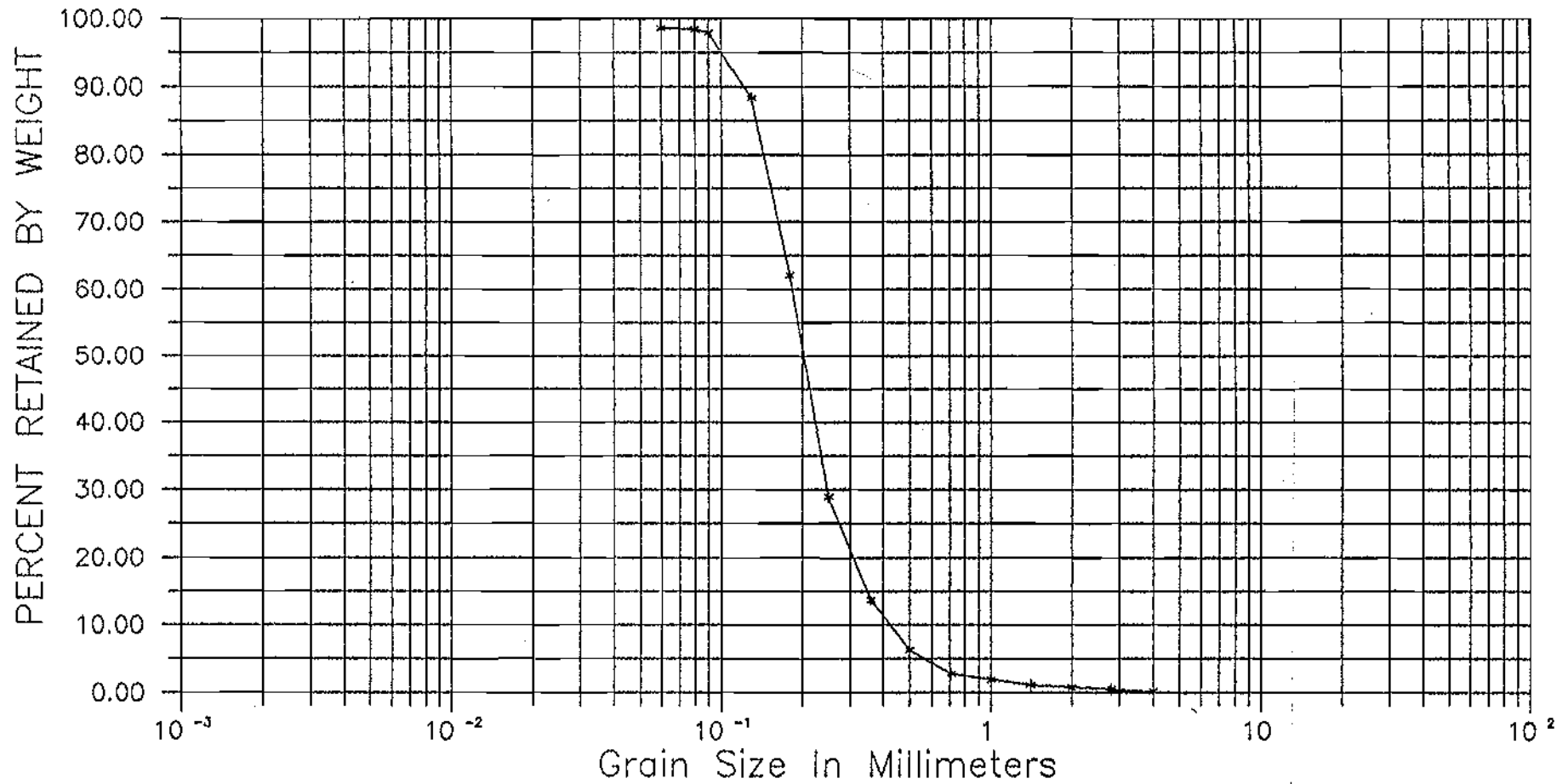
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

18	MEAN	MEDIAN	SORTING
8.0'	.19 mm	.20 mm	.55
	.19 mm	.20 mm	.59
	GREY POORLY GRADED SAND (SP)		

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

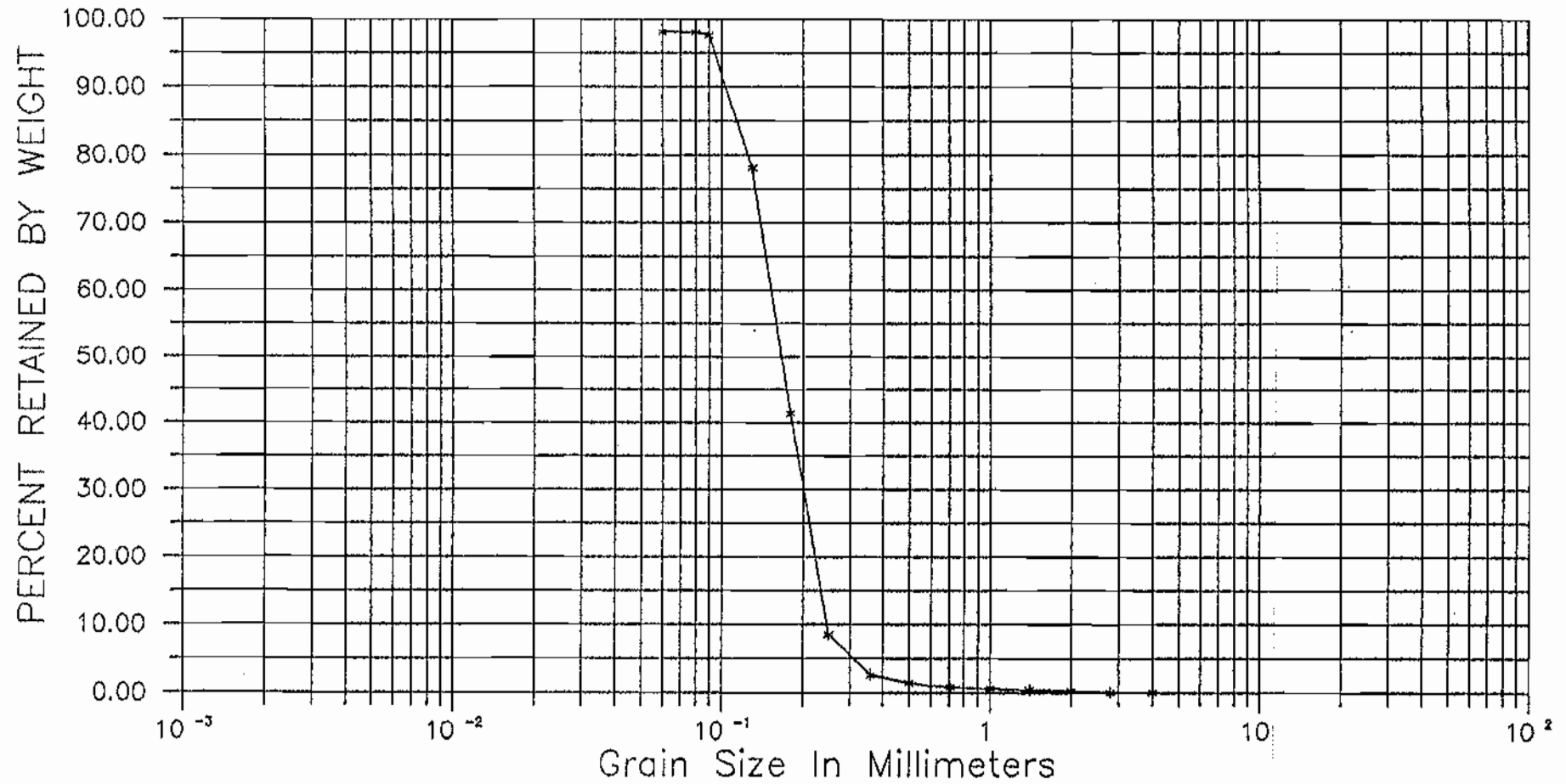
SAMPLE NO.

CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING
18			
13	.21mm	.20mm	.67
	.21mm	.20mm	.67
GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)			

(71)

# MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

10	MEAN	MEDIAN	SORTING
18	.17mm	.17mm	50
	.17mm	.17mm	.44
	GREY POORLY GRADED SAND - (SP)		