

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>2</u>	
Coordinates:		Date: <u>12-14-87</u>	Water Depth <u>42</u> NGVD
N = <u>854836.8</u>		Start Time <u>1316</u>	Driller <u>M.L. CLARKE</u>
E = <u>818473.3</u>		End Time <u>—</u>	Client Rep. <u>FRED KAUB</u>

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0		GREY SAND (10yr 7/1)		
Length of Barrel <u>20'</u>					1.7'	(SP)
Penetration Depth <u>19'6"</u>						
Length Recovered <u>19'2"</u>						
Length Retained <u>19'2"</u>						
Remarks:						
Support Vessel <u>G.W. PIERCE</u>		5				
Positioning System <u>TRISPONDER</u>					6.8'	(SP)
Positioning Remarks:						
Weather <u>CLEAR</u>		10				
Wind Dir: <u>SE</u>						
Est. Speed <u>15-20K</u>				SMALL CORAL FRAG 2 1"		
Waves Dir: <u>SE</u>					14.1'	(SP)
Height <u>3-4'</u>						
Current Dir: <u>N/A</u>		15		SMALL CORAL FRAG 2 1"		
Est. Speed: <u>—</u>				SHELL LAYER		
Analysis By: <u>FK</u>					18.7'	(SP)
Date: <u>12/20/87</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>		20				

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>2A</u>	
Coordinates:	Date: <u>12-14-87</u>	Water Depth <u>42</u> NGVD	
N = <u>854850.5</u>	Start Time <u>1208</u>	Driller <u>M. L. CLARKE</u>	
E = <u>818457.2</u>	End Time <u>1220</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		
Penetration Depth <u>18'</u>				(10 yr 7/1)		
Length Recovered <u>15.0"</u>						
Length Retained <u>15.0"</u>						
Remarks:						
PENETRATION TIME 12 MIN.					3.0'	(SP)
BLOWN HOSE FORCED CORE						
TERMINATION.		5				
Support Vessel <u>G.W. PIERCE</u>						
Positioning						
System <u>TRISPONDER</u>					7.0'	(SP)
Positioning Remarks:						
		10				
Weather <u>CLEAR</u>						
Wind					11.0'	(SP)
Dir: <u>SE</u>						
Est. Speed <u>15-20K</u>						
Waves						
Dir: <u>SE</u>						
Height <u>3-4'</u>						
Current						
Dir: <u>N/A</u>		15			15.0'	(SP)
Est. Speed:						
Analysis By: <u>FK</u>						
Date: <u>12/20/87</u>						
Analysis Method:						
VISUAL LOG		20				
MECHANICAL STEVE						

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.	1	2	2
SAMPLE DEPTH (FT)	17.7	1.7	6.8

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

DRY SAMPLE WT (GRAMS)	395.45	233.56	198.56
SAMPLE WT AFTER WASH	390.98	230.56	194.36

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.05	0.01	99.99	,	1.27	0.54	99.46	,	0.00	0.00	100.00
7	-1.50	2.8	0.13	0.03	99.97	,	2.36	1.01	98.99	,	0.12	0.06	99.94
10	-1.00	2	0.59	0.15	99.85	,	2.96	1.27	98.73	,	0.89	0.45	99.55
14	-0.50	1.4	1.07	0.27	99.73	,	6.32	2.71	97.29	,	1.65	0.83	99.17
18	0.00	1	2.56	0.65	99.35	,	9.63	4.12	95.88	,	2.03	1.02	98.98
25	0.50	0.71	6.35	1.61	98.39	,	13.58	5.81	94.19	,	2.95	1.49	98.51
35	1.00	0.5	14.25	3.60	96.40	,	19.63	8.40	91.60	,	6.93	3.49	96.51
45	1.50	0.355	36.25	9.17	90.83	,	45.36	19.42	80.58	,	17.45	8.79	91.21
60	2.00	0.25	135.26	34.20	65.80	,	135.32	57.94	42.06	,	100.32	50.52	49.48
80	2.50	0.18	250.36	63.31	36.69	,	197.54	84.58	15.42	,	151.23	76.16	23.84
120	3.00	0.125	354.36	89.61	10.39	,	228.36	97.77	2.23	,	192.53	96.96	3.04
170	3.50	0.09	389.26	98.43	1.57	,	229.20	98.13	1.87	,	193.05	97.23	2.77
200	3.75	0.075	390.58	98.77	1.23	,	229.31	98.18	1.82	,	194.17	97.79	2.21
230	4.00	0.063	390.69	98.80	1.20	,	229.56	98.29	1.71	,	194.20	97.80	2.20
PAN			390.73	98.81		,	229.58	98.30		,	194.20	97.80	

SIEVE LOSS	0.25	0.98	0.16
WEIGHTED AVE(mm)	0.204	0.304	0.231
SILT-CLAY %	1.17	1.40	2.13

COASTAL PLANNING & ENGINEERING, INC., 3200 N. FEDERAL HIGHWAY, SUITE 123, BOCA RATON, FL 33431

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.	2	2	3
SAMPLE DEPTH (FT)	14.1	18.7	3

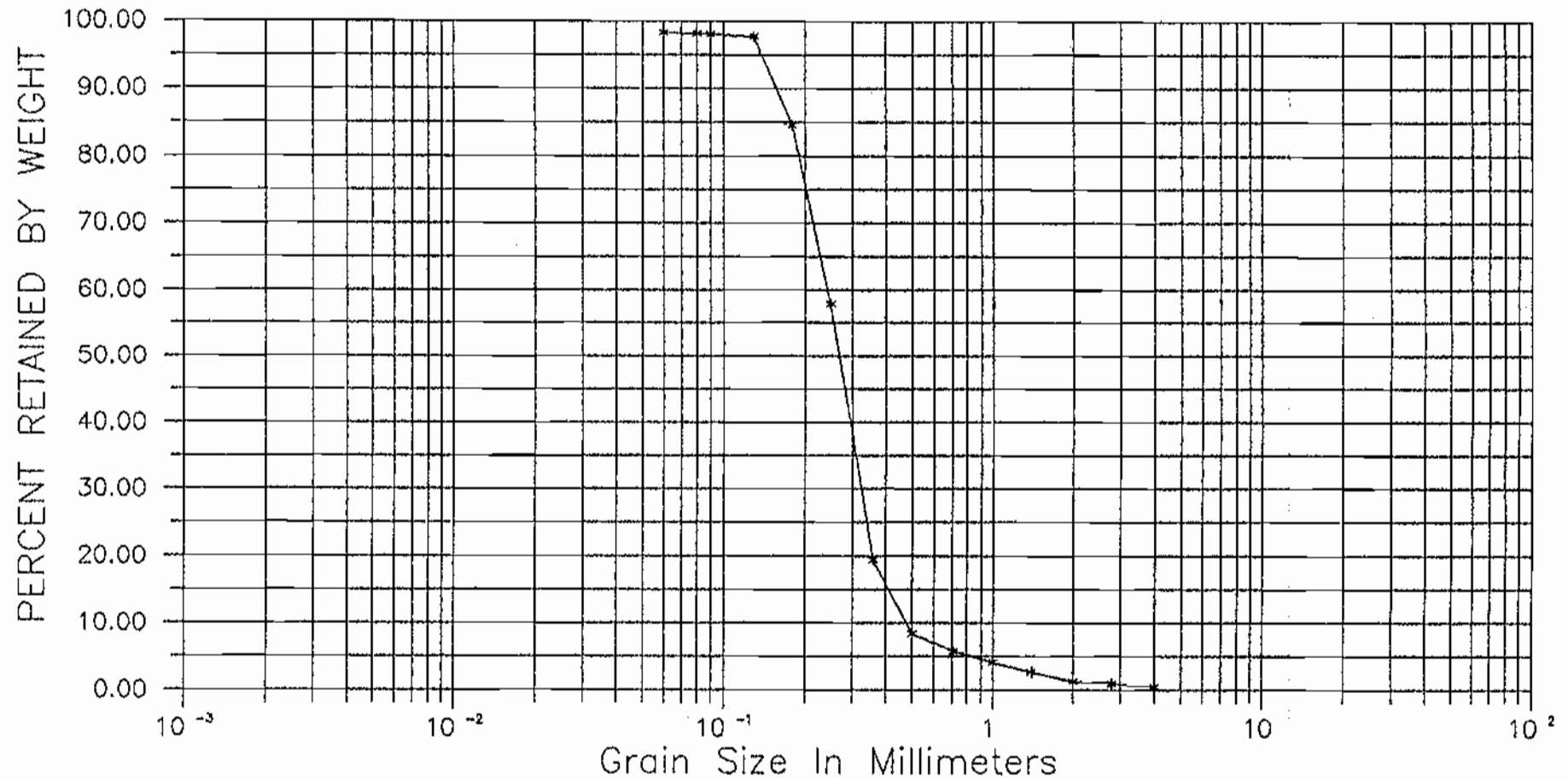
U.S.C.S.	SP	SP	SP
DESCRIPTION			

DRY SAMPLE WT (GRAMS)	191.22	165.32	225.43
SAMPLE WT AFTER WASH	187.25	162.35	221.36

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS
5	-2.00	4	0.17	0.09	99.91	,	0.00	0.00	100.00	,	0.00	0.00	100.00
7	-1.50	2.8	0.70	0.37	99.63	,	0.23	0.14	99.86	,	0.03	0.01	99.99
10	-1.00	2	1.25	0.65	99.35	,	0.53	0.32	99.68	,	0.20	0.09	99.91
14	-0.50	1.4	2.36	1.23	98.77	,	1.20	0.73	99.27	,	0.51	0.23	99.77
18	0.00	1	3.69	1.93	98.07	,	1.80	1.09	98.91	,	0.89	0.39	99.61
25	0.50	0.71	5.63	2.94	97.06	,	2.60	1.57	98.43	,	1.65	0.73	99.27
35	1.00	0.5	8.63	4.51	95.49	,	4.26	2.58	97.42	,	3.65	1.62	98.38
45	1.50	0.355	12.58	6.58	93.42	,	8.52	5.15	94.85	,	4.56	2.02	97.98
60	2.00	0.25	25.89	13.54	86.46	,	18.25	11.04	88.96	,	32.56	14.44	85.56
80	2.50	0.18	88.25	46.15	53.85	,	82.36	49.82	50.18	,	112.65	49.97	50.03
120	3.00	0.125	155.36	81.25	18.75	,	151.24	91.48	8.52	,	211.47	93.81	6.19
170	3.50	0.09	186.36	97.46	2.54	,	159.36	96.39	3.61	,	219.32	97.29	2.71
200	3.75	0.075	187.00	97.79	2.21	,	161.23	97.53	2.47	,	220.65	97.88	2.12
230	4.00	0.063	187.19	97.89	2.11	,	161.59	97.74	2.26	,	220.98	98.03	1.97
PAN			187.21	97.90		,	161.64	97.77		,	221.09	98.07	

SIEVE LOSS	0.04	0.71	0.27
WEIGHTED AVE (mm)	0.193	0.180	0.170
SILT-CLAY %	2.19	2.04	2.00

MECHANICAL ANALYSIS CHART



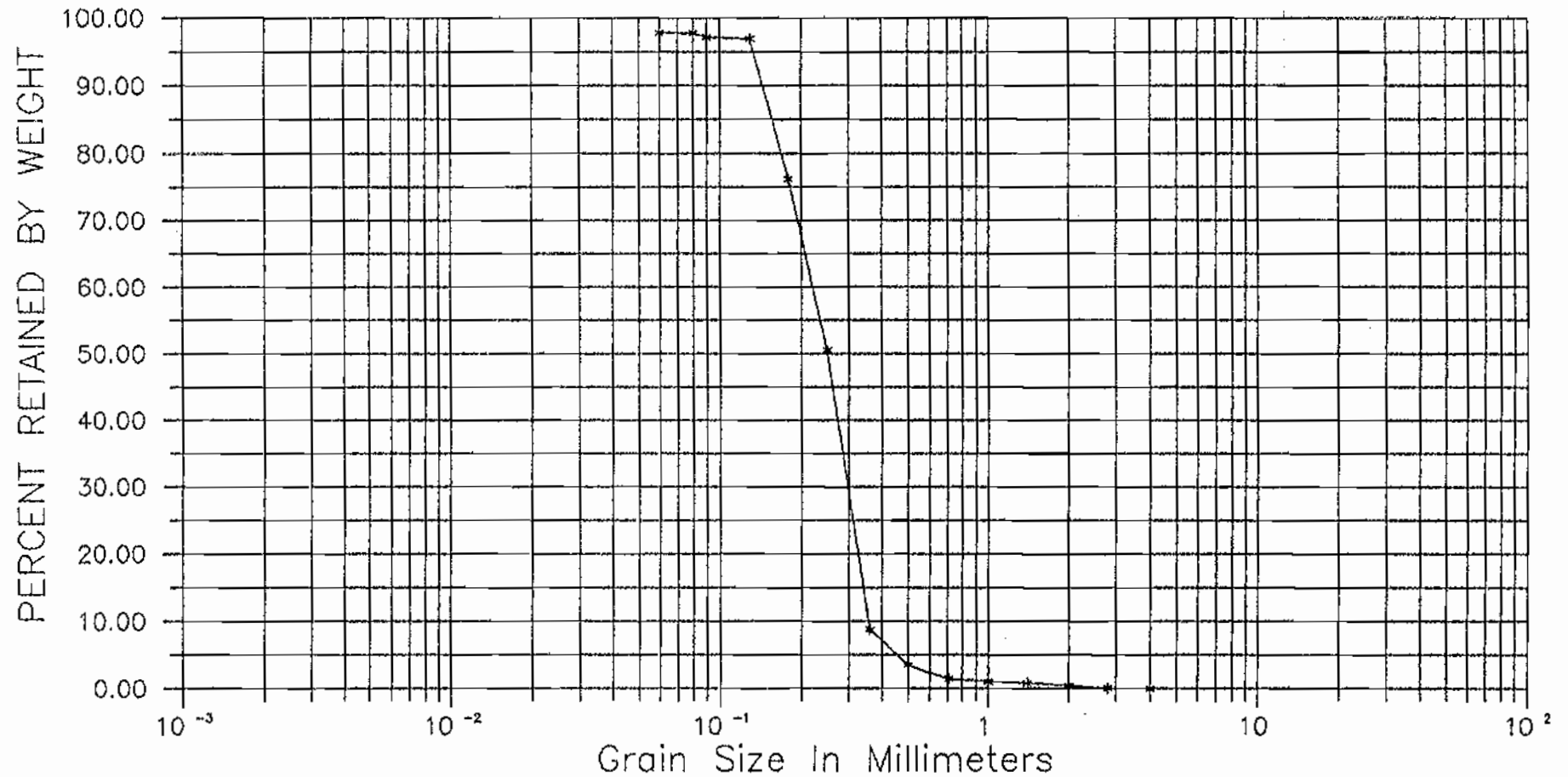
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
1.7	2.7mm	2.7mm	58
	.27mm	.27mm	.58
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



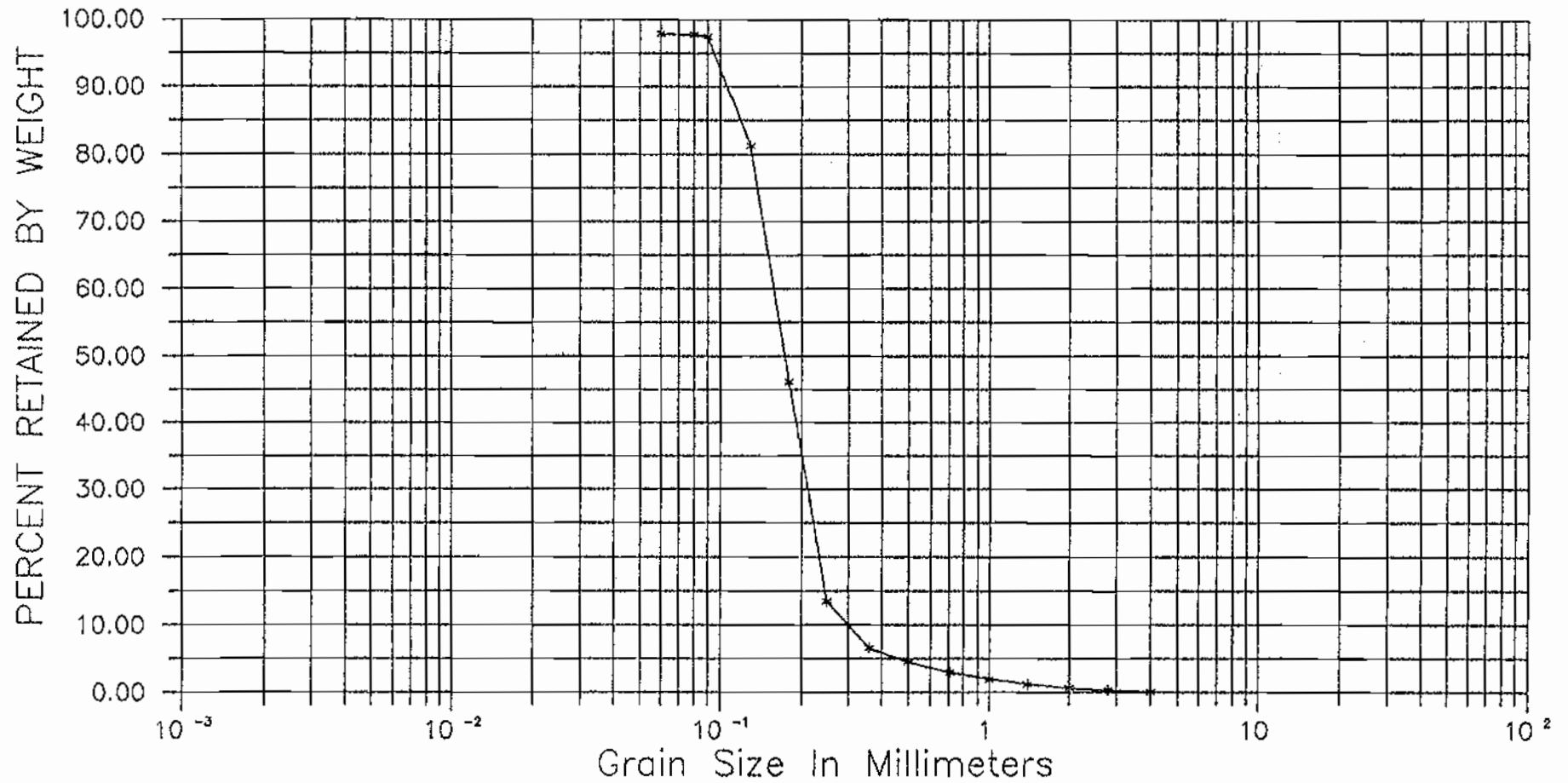
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
6.8	0.24mm	0.25mm	0.50
	.24mm	.25mm	.55
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



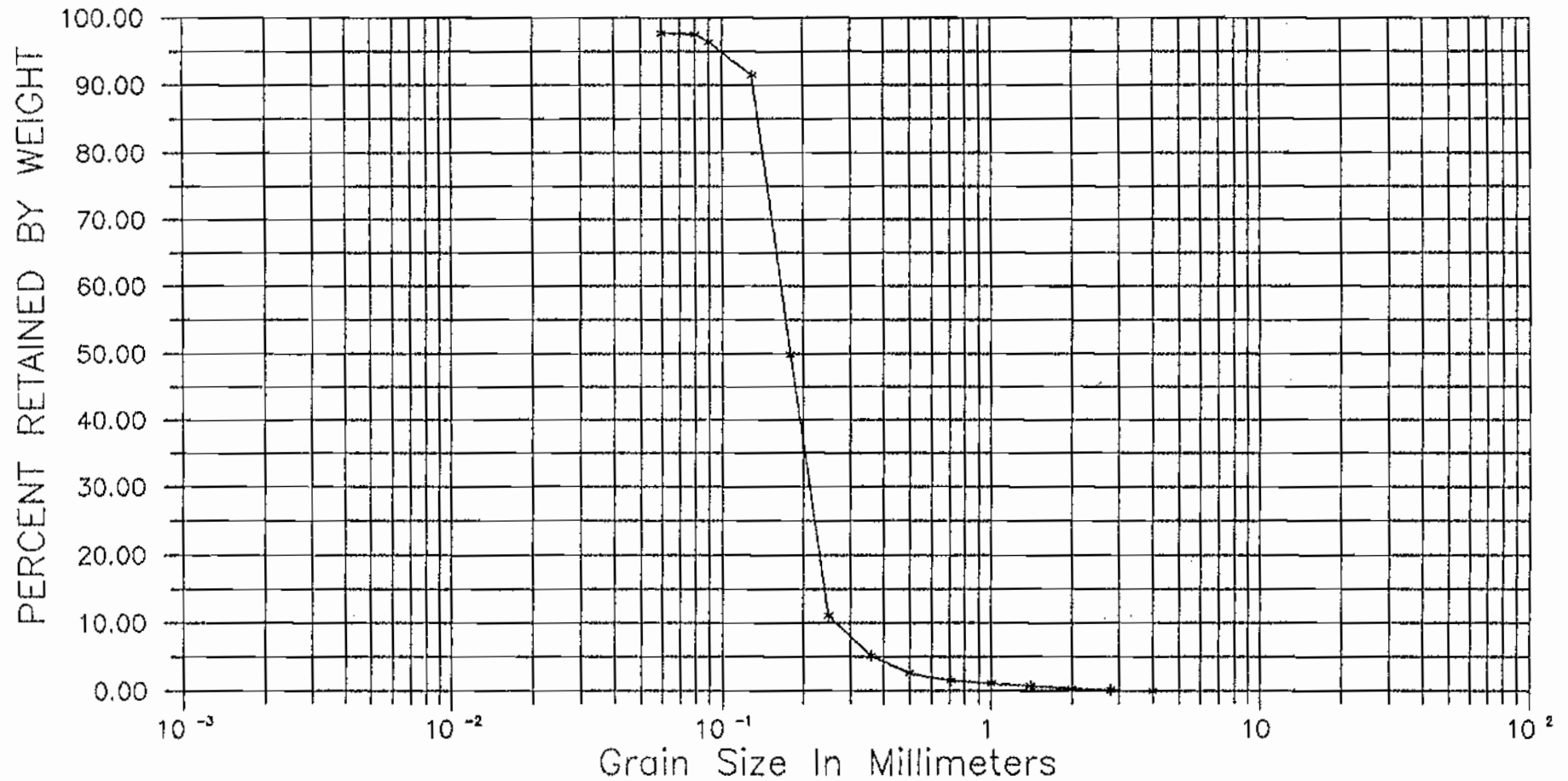
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
14.1	• 18mm	• 18mm	• 47
	• 17mm	• 18mm	• 44
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

2	MEAN	MEDIAN	SORTING
18.7	.18mm	.18mm	.39
	.18mm	.18mm	.33

GREY POORLY GRADED SAND WITH SHELL FRAGMENTS.

(SP)