

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>17</u>	
Coordinates: N = <u>819225.3</u> E = <u>817556.9</u>		Date: <u>12-17-87</u> Start Time <u>1642</u> End Time <u>1650</u>	
		Water Depth <u>34</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'</u>						
Penetration Depth <u>20'</u>						
Length Recovered <u>18.0'</u>						
Length Retained <u>18.0'</u>					3.0'	(SP)
Remarks: <u>PENETRATION TIME 8 MIN</u>		5				
Support Vessel <u>G.W. PIERCE</u>				BROWN COARSE SAND (104R 4/2) W/ SCATTERED SHELL.	7.0'	(SP)
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:		10		GREY SAND (104R 7/1)		
Weather <u>CLEAR</u>						
Wind						
Dir: <u>NW</u>						
Est. Speed <u>15-20 K</u>						
Waves						
Dir: <u>NW</u>						
Height <u>3-5'</u>					13.0'	(SP)
Current						
Dir: <u>N/A</u>		15				
Est. Speed: _____						
					17.0'	(SP)
Analysis By: <u>FK</u>						
Date: <u>12-21-87</u>						
Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>		20				

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.	16	17	17
SAMPLE DEPTH (FT)	18.0	3.0	7.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	195.21	237.02	246.91
SAMPLE WT AFTER WASH	191.92	235.01	242.53

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	,	2.85	1.15	98.85	,
7	-1.50	2.8	0.70	0.36	99.64	,	0.17	0.07	99.93	,	3.35	1.36	98.64	,
10	-1.00	2	1.35	0.69	99.31	,	0.50	0.21	99.79	,	4.56	1.85	98.15	,
14	-0.50	1.4	2.02	1.03	98.97	,	0.86	0.36	99.64	,	5.68	2.30	97.70	,
18	0.00	1	2.93	1.50	98.50	,	1.56	0.66	99.34	,	7.25	2.94	97.06	,
25	0.50	0.71	4.00	2.05	97.95	,	2.95	1.24	98.76	,	9.19	3.72	96.28	,
35	1.00	0.5	7.03	3.60	96.40	,	8.23	3.47	96.53	,	14.72	5.96	94.04	,
45	1.50	0.355	11.81	6.05	93.95	,	25.79	10.88	89.12	,	29.21	11.83	88.17	,
60	2.00	0.25	24.23	12.41	87.59	,	59.95	25.29	74.71	,	71.60	29.00	71.00	,
80	2.50	0.18	87.84	45.00	55.00	,	144.31	60.89	39.11	,	163.00	66.02	33.98	,
120	3.00	0.125	145.34	74.45	25.55	,	201.66	85.08	14.92	,	216.58	87.72	12.28	,
170	3.50	0.09	189.80	97.23	2.77	,	232.55	98.11	1.89	,	240.71	97.49	2.51	,
200	3.75	0.075	191.23	97.96	2.04	,	233.78	98.63	1.37	,	241.29	97.72	2.28	,
230	4.00	0.063	191.48	98.09	1.91	,	234.28	98.84	1.16	,	241.56	97.83	2.17	,
PAN			191.54	98.12		,	234.60	98.98		,	241.60	97.85		,

SIEVE LOSS	0.38	0.41	0.93
WEIGHTED AVE(mm)	0.183	0.240	0.332
SILT-CLAY %	1.84	1.19	1.90

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

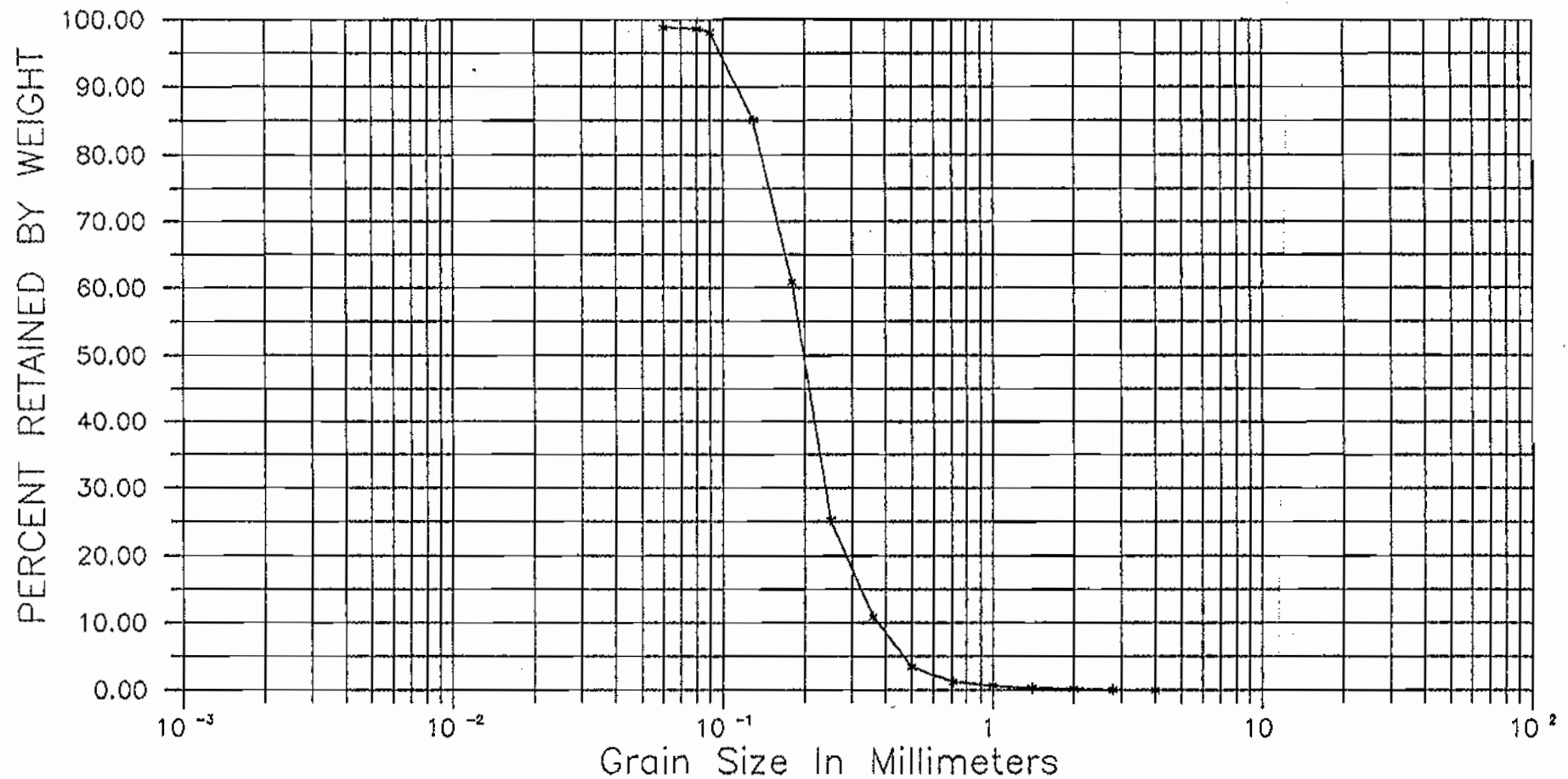
U.S.C.S.	SP	SP	SP
DESCRIPTION			

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

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

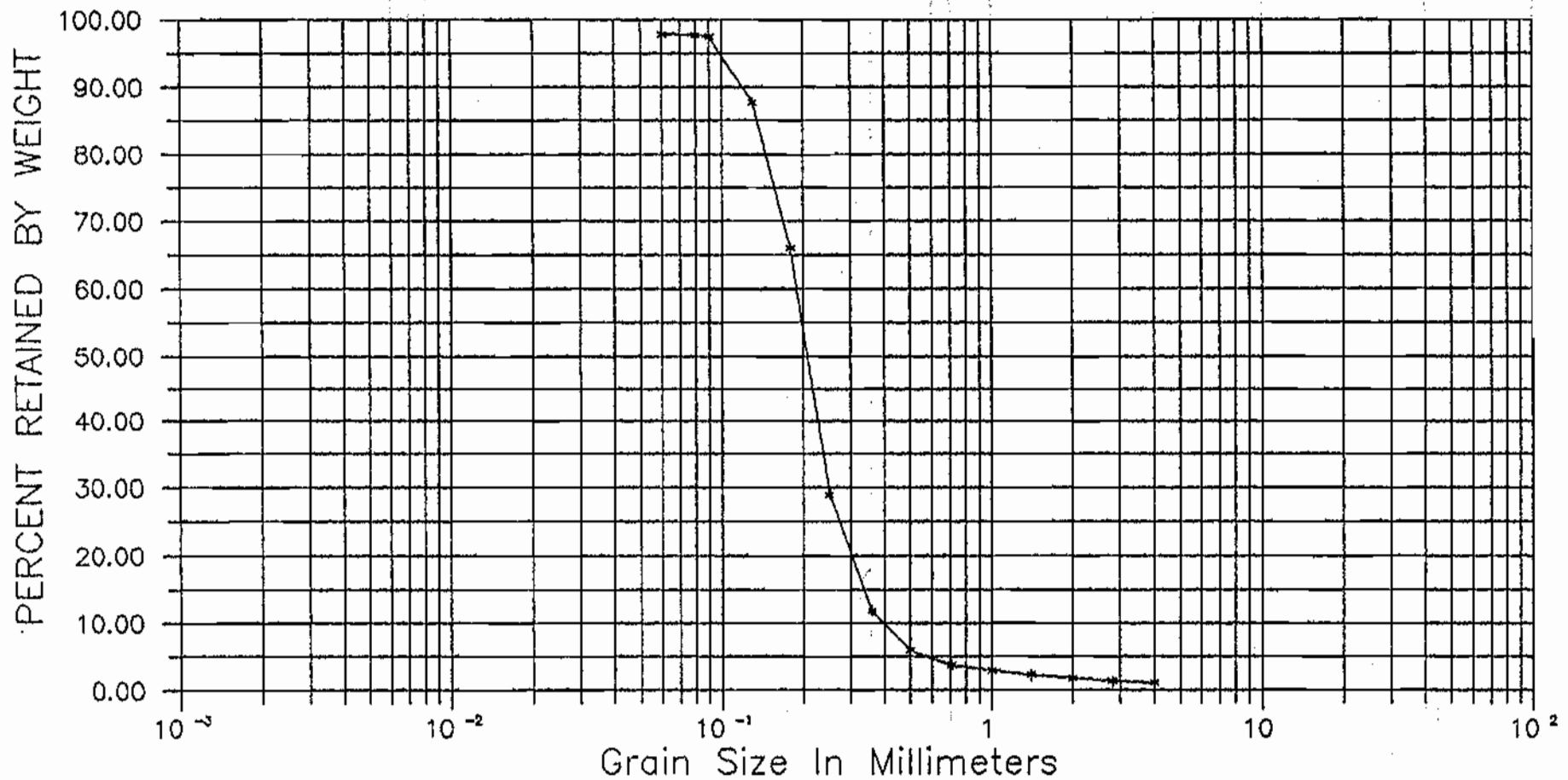
SAMPLE NO.

CLASSIFICATION

17	MEAN	MEDIAN	SORTING
3'	21mm	20mm	.62
	20mm	20mm	.63
GREY POORLY GRADED SAND - (SP)			

(65)

MECHANICAL ANALYSIS CHART

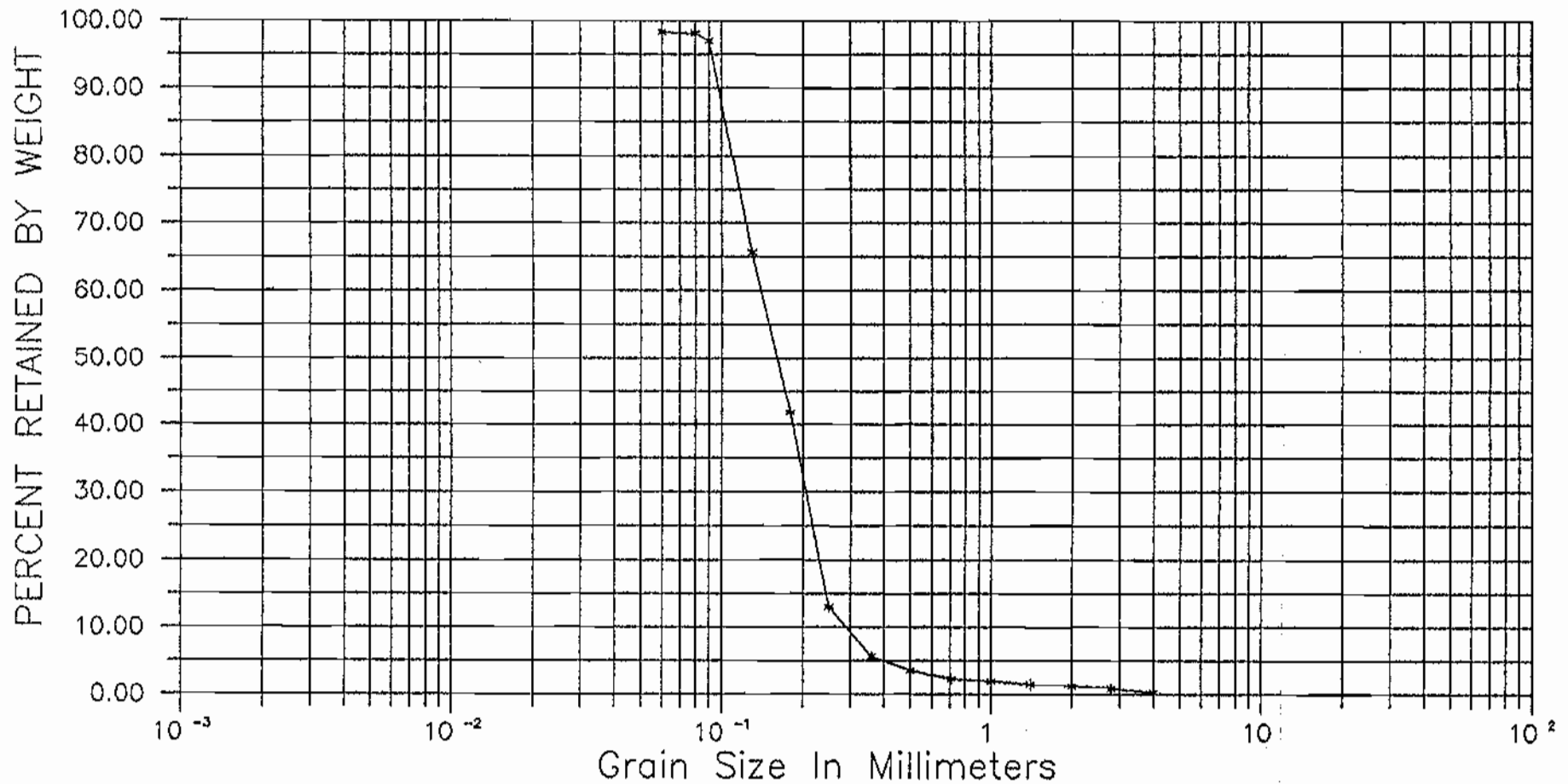


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
17	MEAN	MEDIAN	SORTING
71	.22mm	.21mm	.59
	.21mm	.20mm	.60
	BROWN POORLY GRADED SAND & SCATTERED SHELL (SP)		

(65)

MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
	FINE	MEDIUM	COARSE		FINE	COARSE

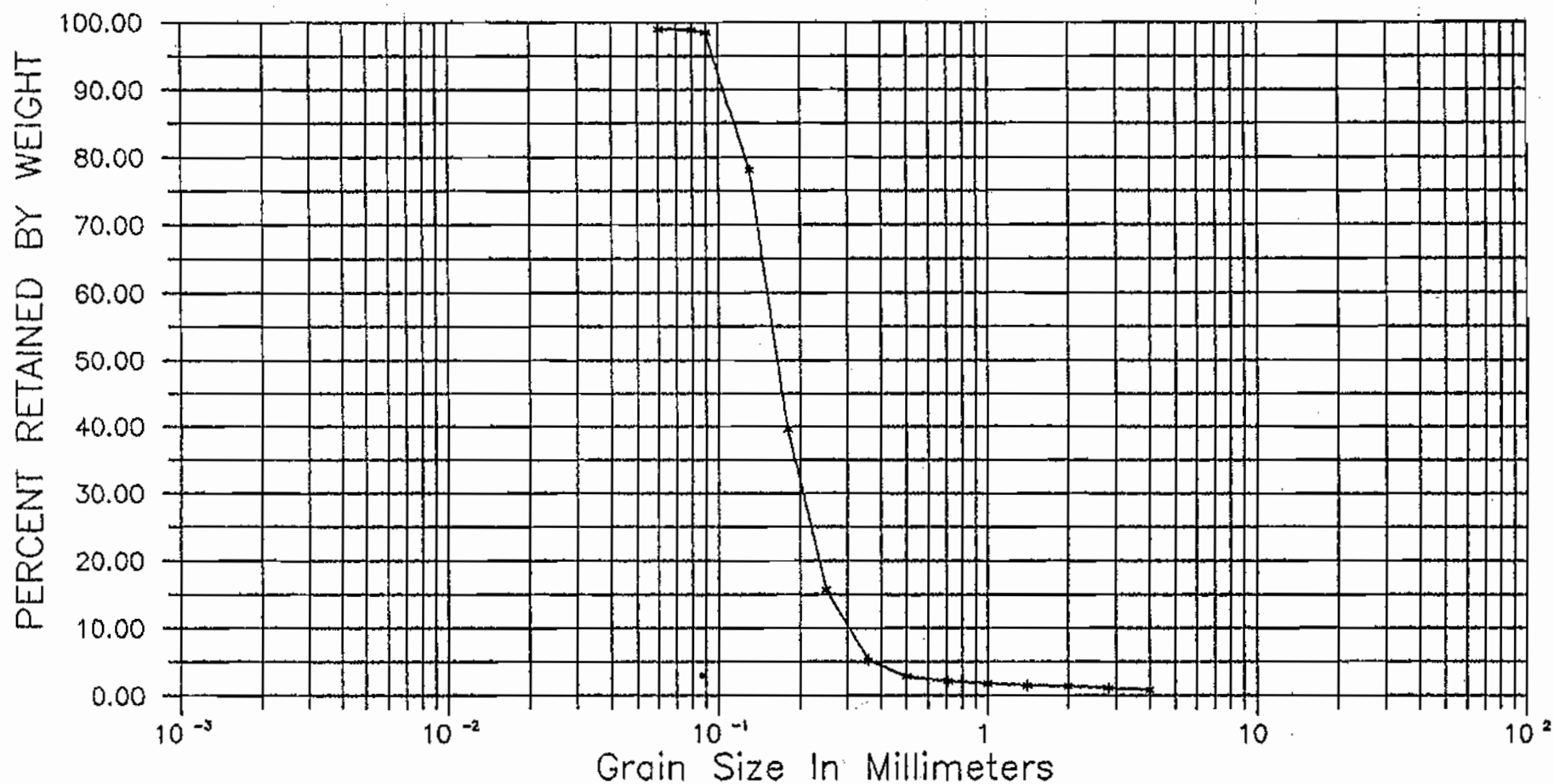
SAMPLE NO.

CLASSIFICATION

17	MEAN	MEDIAN	SORTING
13	0.17mm	0.17mm	5.9
	0.16mm	0.16mm	6.0
	GREY POORLY GRADED SAND - (SP)		

(63)

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

17	MEAN	MEDIAN	SORTING
17'	.22 mm	.21 mm	.59 mm
	.17 mm	.17 mm	.47
	GREY POORLY GRADED SAND - (SP)		

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