

## VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>16</u>	
Coordinates:		Date: <u>12-17-87</u>	Water Depth <u>38</u> NGVD
N = <u>868812.9</u>	Start Time <u>1513</u>	Driller <u>M.L. CLARKE</u> <u>JEFF ANDREWS</u>	
E = <u>818124.0</u>	End Time <u>1520</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>18'3"</u>						2.0' (SP)
Length Retained <u>18.3"</u>						
Remarks: <u>PENETRATION TIME 7 MIN</u>		5				
Support Vessel <u>G.W. PIERCE</u>						
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:					8.0' (SP)	
		10				
Weather <u>CLEAR</u>						
Wind						
Dir: <u>NW</u>						
Est. Speed <u>15-20K</u>						
Waves						
Dir: <u>NW</u>						
Height <u>3-5'</u>					14.0' (SP)	
Current						
Dir: <u>N/A</u>		15		SHELL LAYER		
Est. Speed:						
				COARSER SAND w/ SCATTERED SHELL		
Analysis By: <u>FK</u>					18.0' (SP)	
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	16	16
SAMPLE DEPTH (FT)	2.0	8.0	14.0

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

DRY SAMPLE WT (GRAMS)	259.62	215.8	222.53
SAMPLE WT AFTER WASH	257.59	213.8	219.79

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.32	0.12	99.88	,	0.00	0.00	100.00	,	0.00	0.00	100.00	,
7	-1.50	2.8	1.36	0.52	99.48	,	0.20	0.09	99.91	,	0.25	0.11	99.89	,
10	-1.00	2	1.68	0.65	99.35	,	0.36	0.17	99.83	,	0.49	0.22	99.78	,
14	-0.50	1.4	2.28	0.88	99.12	,	0.52	0.24	99.76	,	0.88	0.40	99.60	,
18	0.00	1	3.15	1.21	98.79	,	0.93	0.43	99.57	,	1.63	0.73	99.27	,
25	0.50	0.71	4.15	1.60	98.40	,	1.70	0.79	99.21	,	2.95	1.33	98.67	,
35	1.00	0.5	5.92	2.28	97.72	,	3.69	1.71	98.29	,	6.73	3.02	96.98	,
45	1.50	0.355	10.60	4.08	95.92	,	11.93	5.53	94.47	,	17.28	7.77	92.23	,
60	2.00	0.25	32.37	12.47	87.53	,	63.32	29.34	70.66	,	81.84	36.78	63.22	,
80	2.50	0.18	121.99	46.99	53.01	,	154.17	71.44	28.56	,	164.12	73.75	26.25	,
120	3.00	0.125	212.64	81.90	18.10	,	200.10	92.72	7.28	,	201.32	90.47	9.53	,
170	3.50	0.09	254.70	98.10	1.90	,	212.16	98.31	1.69	,	217.89	97.91	2.09	,
200	3.75	0.075	255.62	98.46	1.54	,	212.85	98.63	1.37	,	219.20	98.50	1.50	,
230	4.00	0.063	256.10	98.64	1.36	,	213.09	98.74	1.26	,	219.39	98.59	1.41	,
PAN			256.37	98.75		,	213.13	98.76		,	219.43	98.61		,

SIEVE LOSS	1.22	0.67	0.36
WEIGHTED AVE(mm)	0.181	0.164	0.180
SILT-CLAY %	1.07	1.06	1.33

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

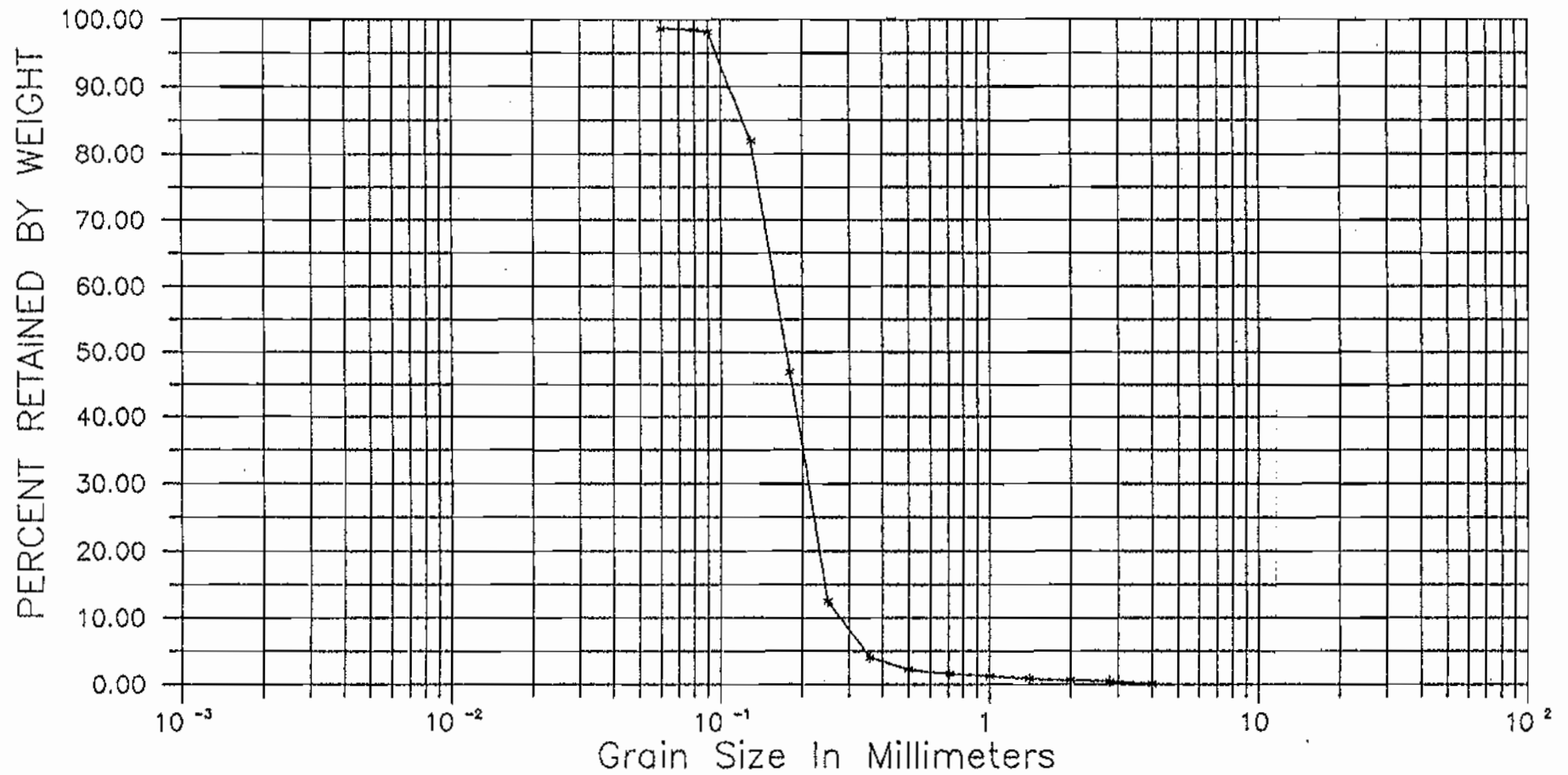
U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	195.21	237.02	246.91
SAMPLE WT AFTER WASH	191.92	235.01	242.53

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

# MECHANICAL ANALYSIS CHART

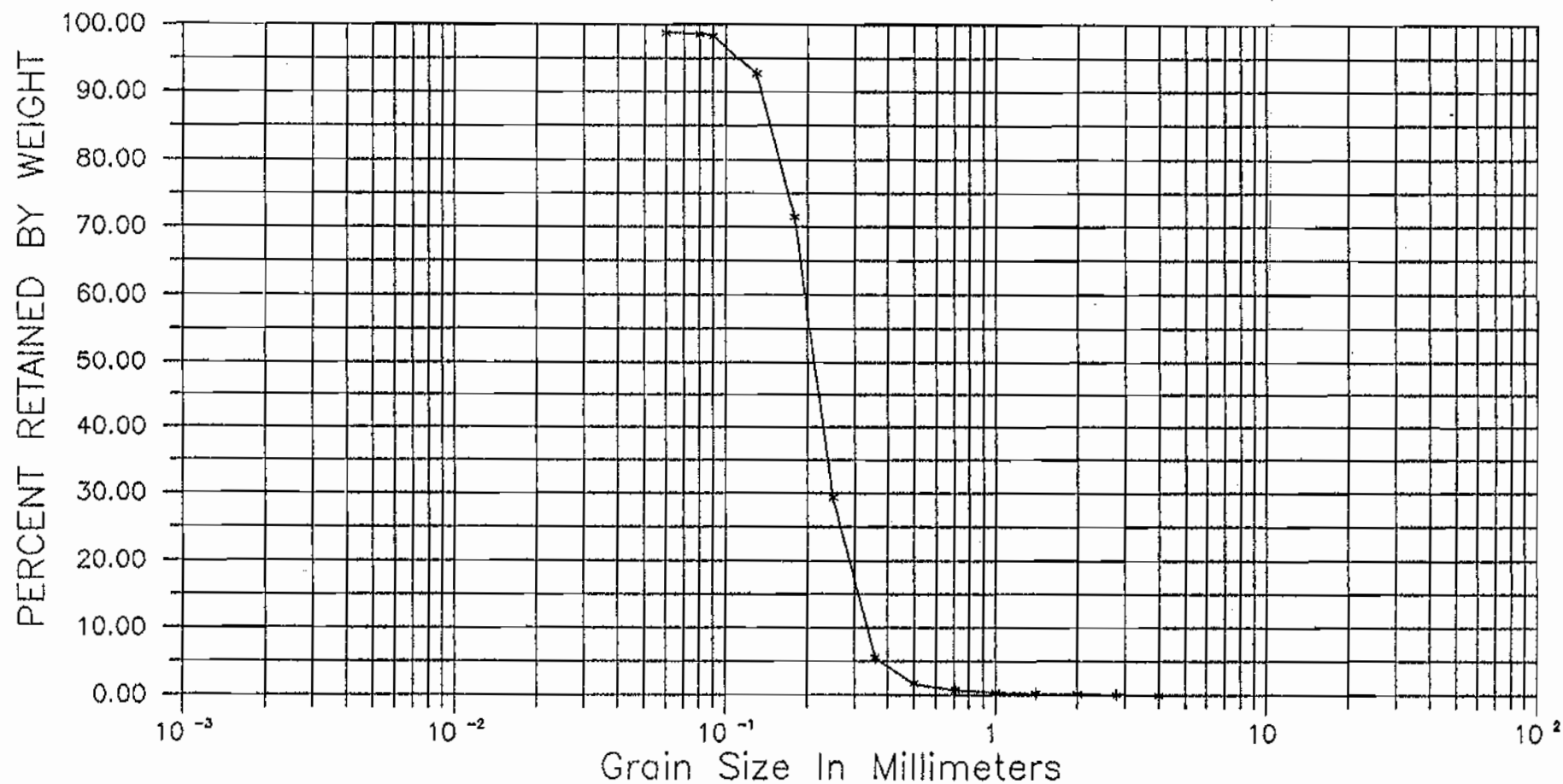


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

	MEAN	MEDIAN	SORTING
16	.18mm	.18mm	1.47
2.0	.17mm	.18mm	.38
	GREY POORLY GRADED SAND - (SP)		

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

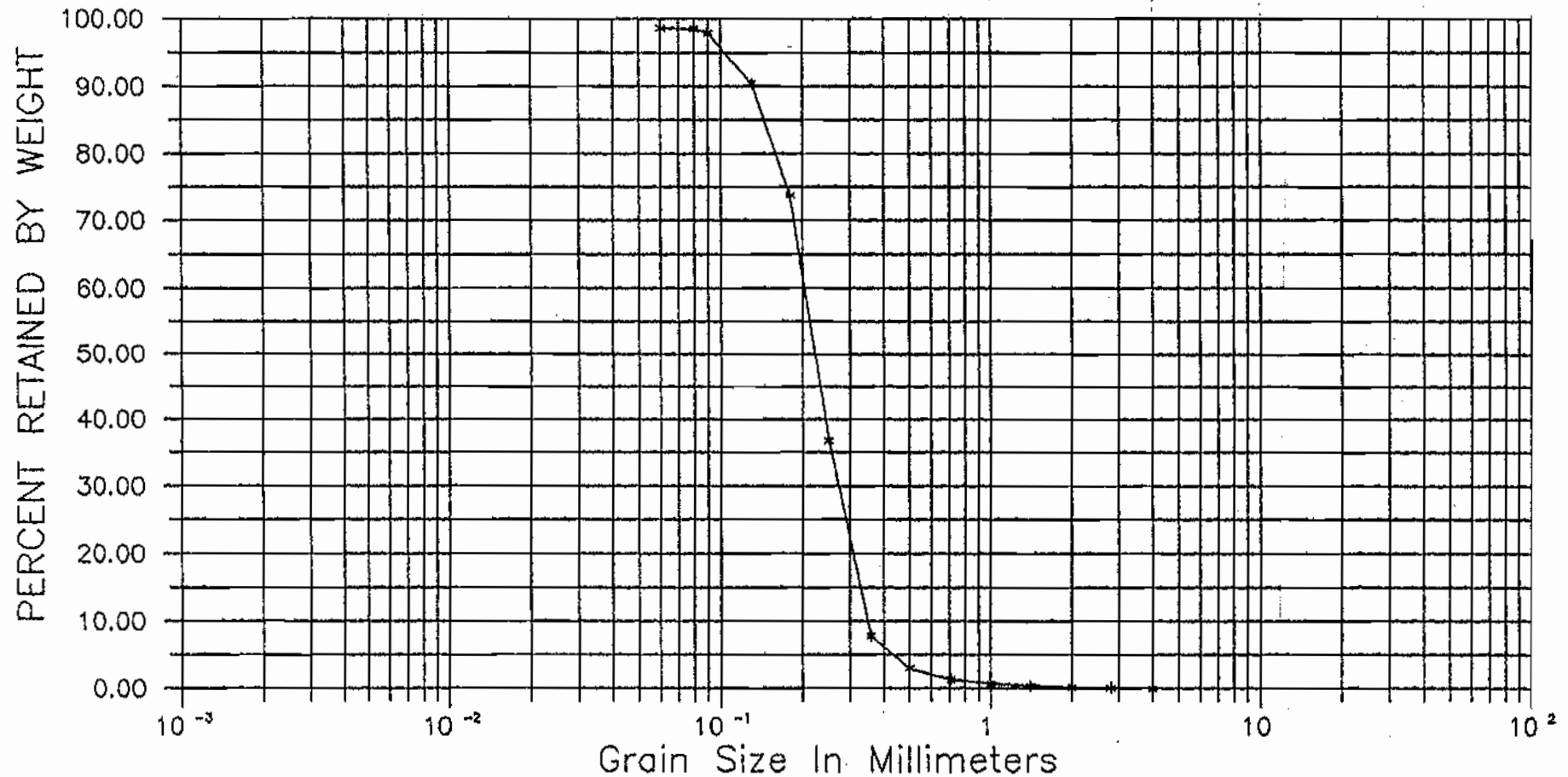
SAMPLE NO.

CLASSIFICATION

16	MEAN	MEDIAN	SORTING
8	<del>0.21 mm</del>	<del>0.21 mm</del>	<del>1.18</del>
	.22 mm	.21 mm	.52
	GREY POORLY GRADED SAND - (SP)		

(62)

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

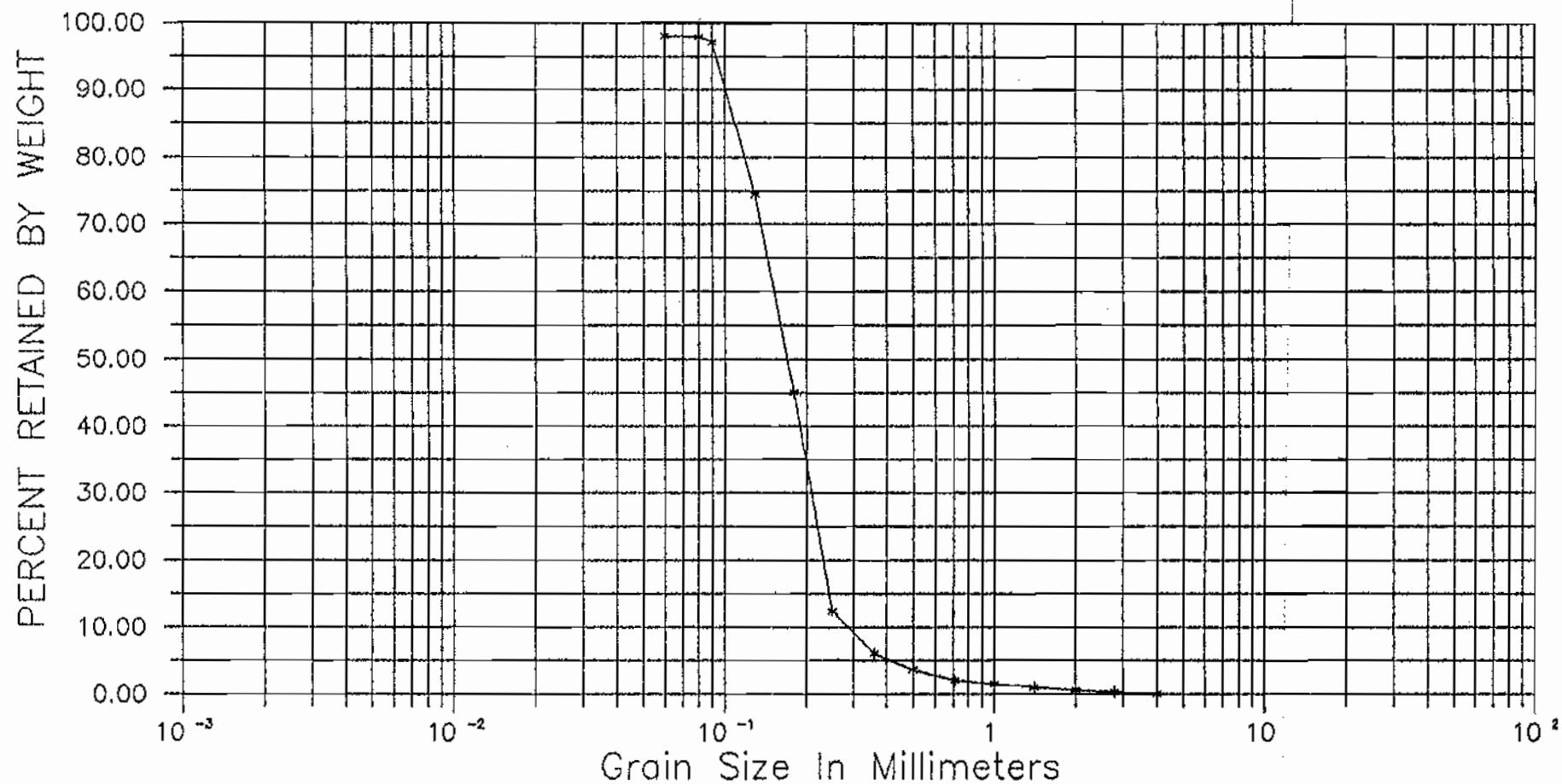
SAMPLE NO.

CLASSIFICATION

16	MEAN	MEDIAN	SORTING
14'	.23 mm	.23 mm	.48
	.22 mm	.22 mm	.57
	GREY POORLY GRADED SAND (SP)		

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# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

16	MEAN	MEDIAN	SORTING
18	.18mm	.17mm	.47
	.16mm	.17mm	.50
	GREY POORLY GRADED SAND & SCATTERED SHELL-(SP)		

(64)