

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>13</u>	
Coordinates: N = <u>861795.1</u> E = <u>818787.3</u>		Date: <u>12-17-87</u> Start Time <u>0839</u> End Time <u>0855</u>	
		Water Depth _____ NGVD Driller <u>M.L. CLARKE</u> Client Rep. <u>JEFF ANDREWS</u> <u>FRED KAUB</u>	

Elev.	Depth	Legend	Description	Samp. No.	Remarks
	0		GREY SAND (1042 7/11)		
				20'	(SP)
	5				
				80'	(SP)
	10				
				140'	(SP)
	15		COARSE SAND, CORAL, & SHELL		← CORAL UP TO 1" DIA
				180'	(SP)
	20				

Core Diam. <u>3.0"</u>
Length of Barrel <u>20.0'</u>
Penetration Depth <u>19'6"</u>
Length Recovered <u>19'3"</u>
Length Retained <u>19'3"</u>
Remarks: <u>PENETRATION TIME 16MIN</u>

Support Vessel <u>G.W. PIERCE</u>
Positioning System <u>TRISPONDER</u>
Positioning Remarks:

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>
Current
Dir: <u>N/A</u>
Est. Speed:

Analysis By: <u>FK</u>
Date: <u>12-21-87</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.	13	13	13
SAMPLE DEPTH (FT)	2.0	8.0	14.0

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

DRY SAMPLE WT (GRAMS)	222.65	166.65	160.65
SAMPLE WT AFTER WASH	219.62	164.23	158.11

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.08	0.04	99.96	,	0.35	0.21	99.79	,	0.10	0.06	99.94	,
7	-1.50	2.8	0.28	0.13	99.87	,	0.41	0.25	99.75	,	0.13	0.08	99.92	,
10	-1.00	2	0.43	0.19	99.81	,	0.59	0.35	99.65	,	0.30	0.19	99.81	,
14	-0.50	1.4	0.70	0.31	99.69	,	0.71	0.43	99.57	,	0.82	0.51	99.49	,
18	0.00	1	1.10	0.49	99.51	,	0.90	0.54	99.46	,	1.29	0.80	99.20	,
25	0.50	0.71	1.41	0.63	99.37	,	1.09	0.65	99.35	,	1.99	1.24	98.76	,
35	1.00	0.5	2.55	1.15	98.85	,	1.34	0.80	99.20	,	3.73	2.32	97.68	,
45	1.50	0.355	4.25	1.91	98.09	,	2.20	1.32	98.68	,	6.79	4.23	95.77	,
60	2.00	0.25	20.09	9.02	90.98	,	9.56	5.74	94.26	,	15.28	9.51	90.49	,
80	2.50	0.18	112.65	50.60	49.40	,	65.00	39.00	61.00	,	104.78	65.22	34.78	,
120	3.00	0.125	186.15	83.61	16.39	,	129.01	77.41	22.59	,	145.15	90.35	9.65	,
170	3.50	0.09	217.28	97.59	2.41	,	161.22	96.74	3.26	,	157.30	97.91	2.09	,
200	3.75	0.075	218.29	98.04	1.96	,	163.44	98.07	1.93	,	157.85	98.26	1.74	,
230	4.00	0.063	218.51	98.14	1.86	,	163.87	98.33	1.67	,	158.06	98.39	1.61	,
PAN			218.53	98.15		,	163.91	98.36		,	158.09	98.41		,

SIEVE LOSS	1.09	0.32	0.02
WEIGHTED AVE(mm)	0.164	0.117	0.132
SILT-CLAY %	1.47	1.73	1.73

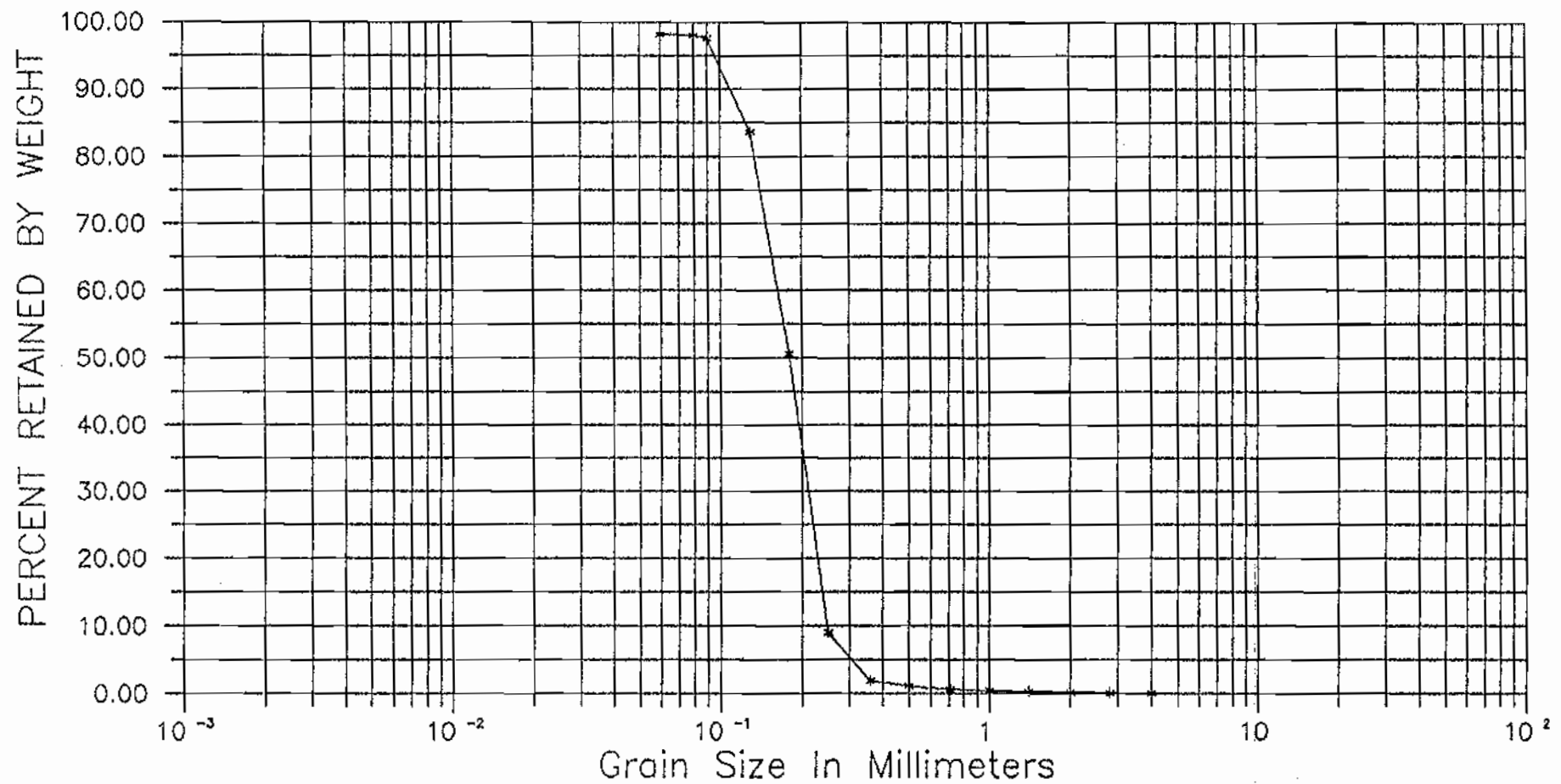
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GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES
ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	13	14 b	14 b											
SAMPLE DEPTH (FT)	18.0	2.0	8.0											
U.S.C.S. DESCRIPTION	SP	SP	SP											
DRY SAMPLE WT (GRAMS)	186.42	148.66	184.21											
SAMPLE WT AFTER WASH	179.02	146.55	181.12											
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS			
5	-2.00	4	1.69	0.91	99.09	'	0.00	0.00	100.00	'	0.42	0.23	99.77	'
7	-1.50	2.8	2.16	1.16	98.84	'	0.00	0.00	100.00	'	0.50	0.27	99.73	'
10	-1.00	2	5.03	2.70	97.30	'	0.40	0.27	99.73	'	0.71	0.39	99.61	'
14	-0.50	1.4	7.20	3.86	96.14	'	0.89	0.60	99.40	'	1.21	0.66	99.34	'
18	0.00	1	11.28	6.05	93.95	'	1.31	0.88	99.12	'	1.82	0.99	99.01	'
25	0.50	0.71	15.72	8.43	91.57	'	2.33	1.57	98.43	'	3.51	1.91	98.09	'
35	1.00	0.5	18.91	10.14	89.86	'	6.92	4.65	95.35	'	11.34	6.16	93.84	'
45	1.50	0.355	31.34	16.81	83.19	'	16.55	11.13	88.87	'	37.03	20.10	79.90	'
60	2.00	0.25	41.62	22.33	77.67	'	75.65	50.89	49.11	'	59.56	32.33	67.67	'
80	2.50	0.18	106.24	56.99	43.01	'	122.01	82.07	17.93	'	119.19	64.70	35.30	'
120	3.00	0.125	156.62	84.01	15.99	'	145.50	97.87	2.13	'	156.17	84.78	15.22	'
170	3.50	0.09	176.80	94.84	5.16	'	146.16	98.32	1.68	'	178.09	96.68	3.32	'
200	3.75	0.075	177.84	95.40	4.60	'	146.19	98.34	1.66	'	180.08	97.76	2.24	'
230	4.00	0.063	178.41	95.70	4.30	'	146.21	98.35	1.65	'	180.49	97.98	2.02	'
PAN			178.74	95.88		'	146.29	98.41		'	180.53	98.00		'
SIEVE LOSS	0.28						0.26				0.59			
WEIGHTED AVE(mm)	0.294						0.193				0.229			
SILT-CLAY %	4.45						1.49				1.92			

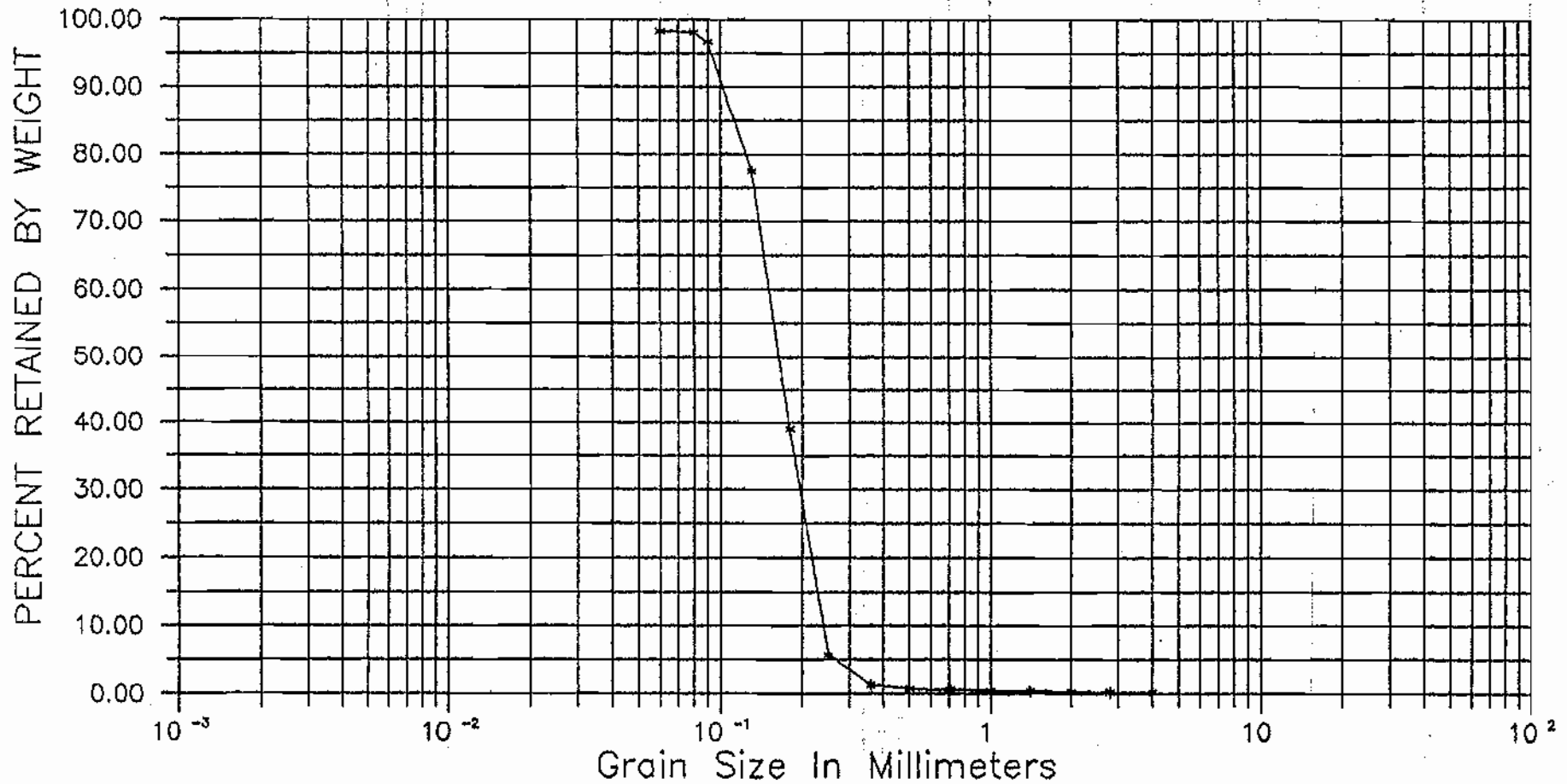
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
13			
2'	.18mm	.18mm	.44
	.17mm	.18mm	.38
	GREY POORLY GRADED SAND - (SP)		

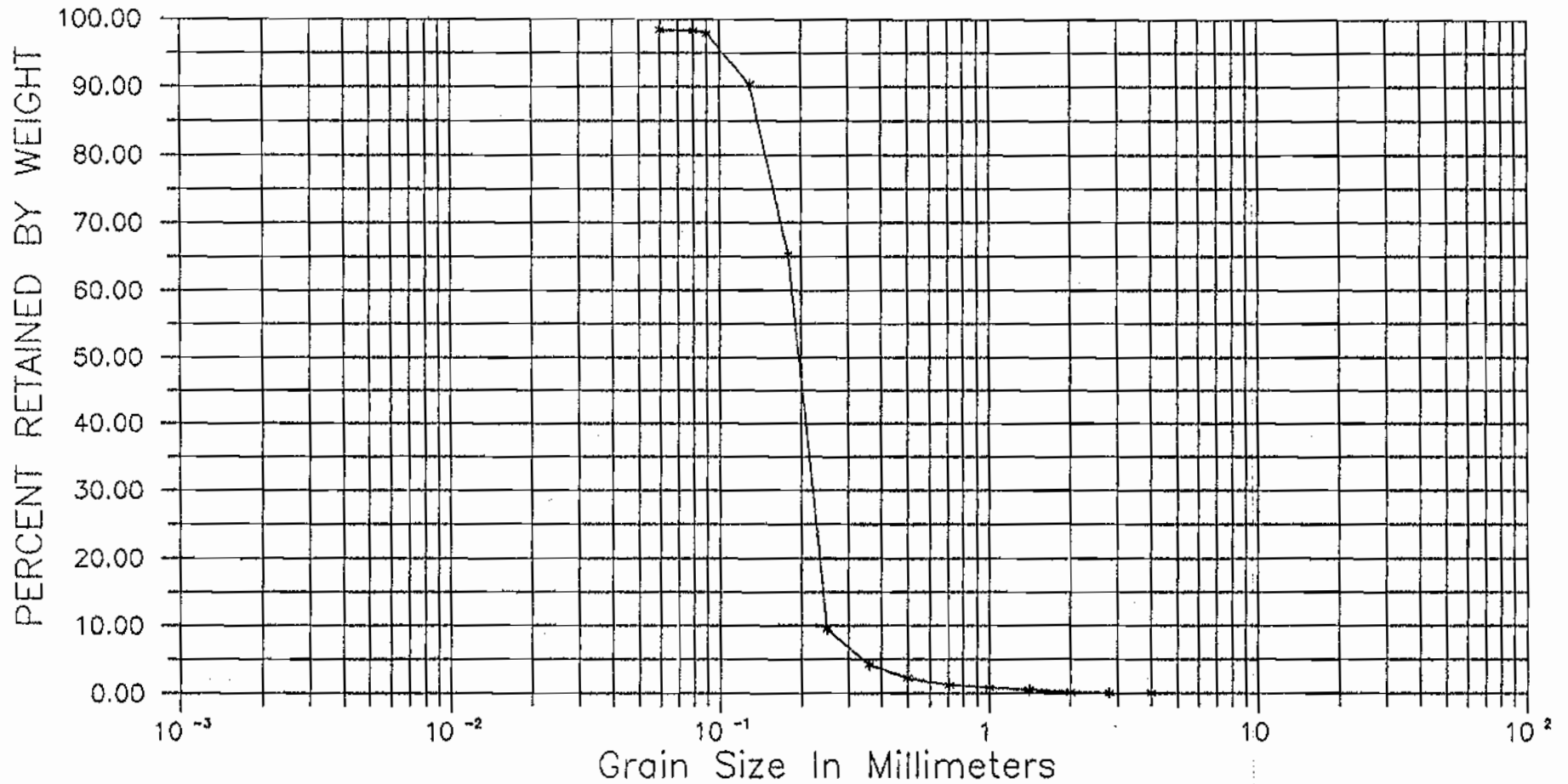
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
13	MEAN	MEDIAN	SORTING
8'	.17mm	.17mm	.47
	.16mm	.17mm	.50
	GREY POORLY GRADED SAND (SP)		

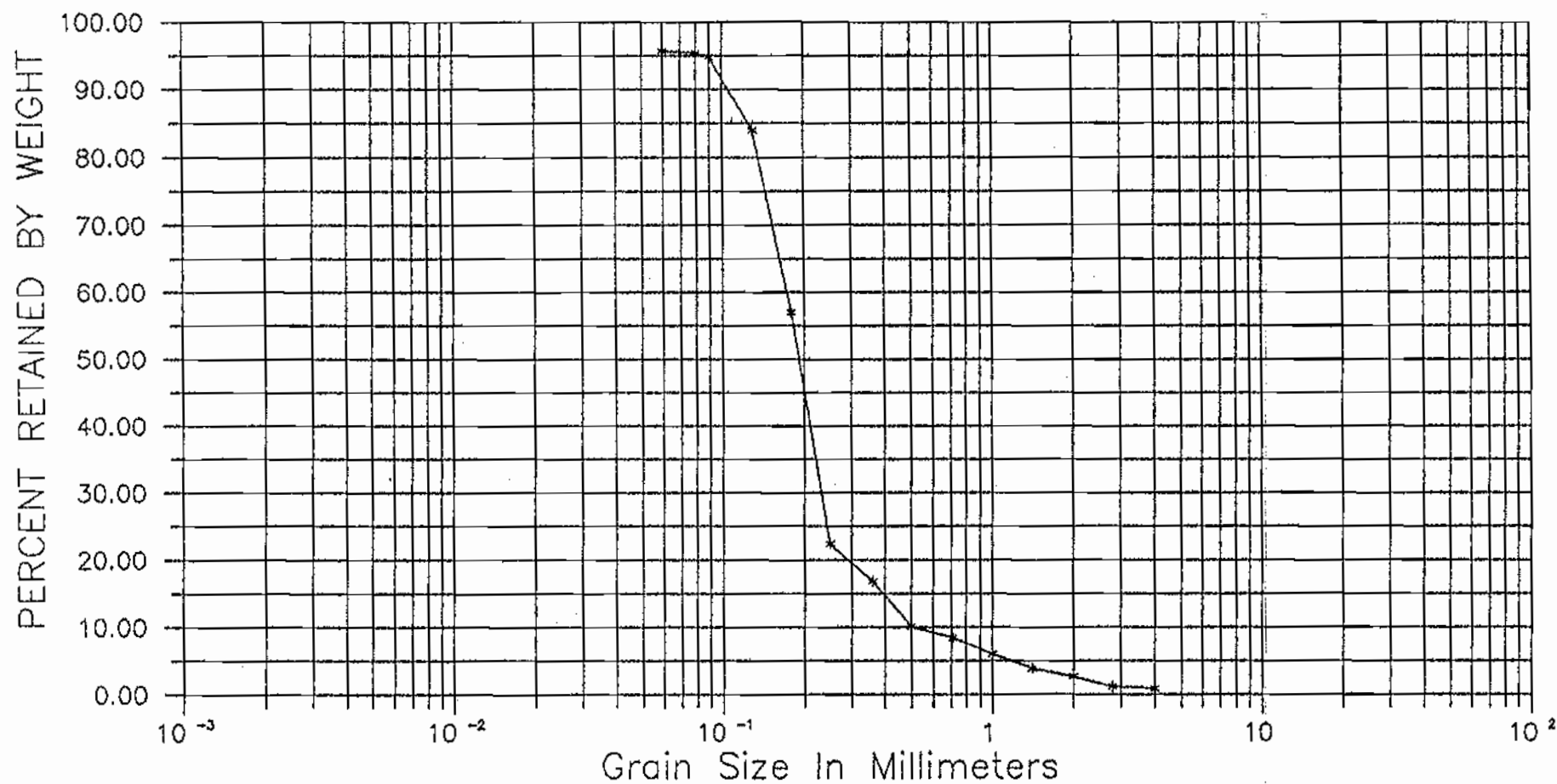
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
13	MEAN	MEDIAN	SORTING
14'	.19mm	.20mm	.33
	.18mm	.20mm	.36
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
13	MEAN	MEDIAN	SORTING
18'	.21mm	.19mm	.79
	.21	.20	.76
	GREY POORLY GRADED SAND - (SP)		