

## VIBRACORE LOG

Project: _____		Core No: <u>19</u>	
Coordinates:		Date: <u>12-18-87</u>	Water Depth <u>44'</u> NGVD
N = <u>869999.7</u>	Start Time <u>1008</u>	Driller <u>M.L. CLARKE</u>	
E = <u>817646.4</u>	End Time <u>1020</u>	Client Rep. <u>FRED KAUB</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>				W/SCATTERED SH		
Penetration Depth <u>20'</u>					3.0'	(SP)
Length Recovered <u>19'7"</u>						
Length Retained <u>19'7"</u>						
Remarks: PENETRATION TIME 12 MIN		5				
Support Vessel <u>G.W. PIERCE</u>						
Positioning System <u>TRISPOUNDER</u>				SHELL LAYER		
Positioning Remarks:						
		10		GREY SAND (104R 7/2)	9.0'	(SP)
Weather <u>CLAR</u>						
Wind						
Dir: <u>NW</u>				GREY SAND (104R 7/1)		
Est. Speed <u>10-15K</u>				W/SCATTERED SH		
Waves						
Dir: <u>NW</u>						
Height <u>2-4'</u>						
Current						
Dir: <u>N/A</u>		15			15.0'	(SP)
Est. Speed: _____						
Analysis By: <u>FK</u>						
Date: <u>12-21-87</u>						
Analysis Method: VISUAL LOG MECHANICAL SIEVE		20			19.0'	(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.	19	19	19
SAMPLE DEPTH (FT)	3.0	9.0	15.0

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

DRY SAMPLE WT (GRAMS)	344.4	300.09	322.10
SAMPLE WT AFTER WASH	341.5	294.25	317.38

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS	
5	-2.00	4	0.00	0.00	100.00	,	0.00	0.00	100.00	,	1.00	0.31	99.69	,
7	-1.50	2.8	0.10	0.03	99.97	,	0.40	0.13	99.87	,	1.31	0.41	99.59	,
10	-1.00	2	0.35	0.10	99.90	,	0.61	0.20	99.80	,	1.89	0.59	99.41	,
14	-0.50	1.4	0.75	0.22	99.78	,	0.82	0.27	99.73	,	2.50	0.78	99.22	,
18	0.00	1	1.39	0.40	99.60	,	1.12	0.37	99.63	,	3.41	1.06	98.94	,
25	0.50	0.71	2.36	0.69	99.31	,	1.49	0.50	99.50	,	4.52	1.40	98.60	,
35	1.00	0.5	5.20	1.51	98.49	,	2.99	1.00	99.00	,	7.34	2.28	97.72	,
45	1.50	0.355	15.88	4.61	95.39	,	16.53	5.51	94.49	,	15.00	4.66	95.34	,
60	2.00	0.25	52.30	15.19	84.81	,	90.08	30.02	69.98	,	41.61	12.92	87.08	,
80	2.50	0.18	184.00	53.43	46.57	,	200.21	66.72	33.28	,	174.13	54.06	45.94	,
120	3.00	0.125	294.59	85.54	14.46	,	262.64	87.52	12.48	,	259.74	80.64	19.36	,
170	3.50	0.09	339.40	98.55	1.45	,	292.14	97.35	2.65	,	314.65	97.69	2.31	,
200	3.75	0.075	340.80	98.95	1.05	,	293.05	97.65	2.35	,	316.20	98.17	1.83	,
230	4.00	0.063	340.88	98.98	1.02	,	293.32	97.74	2.26	,	316.69	98.32	1.68	,
PAN			341.30	99.10		,	293.34	97.75		,	317.03	98.43		,

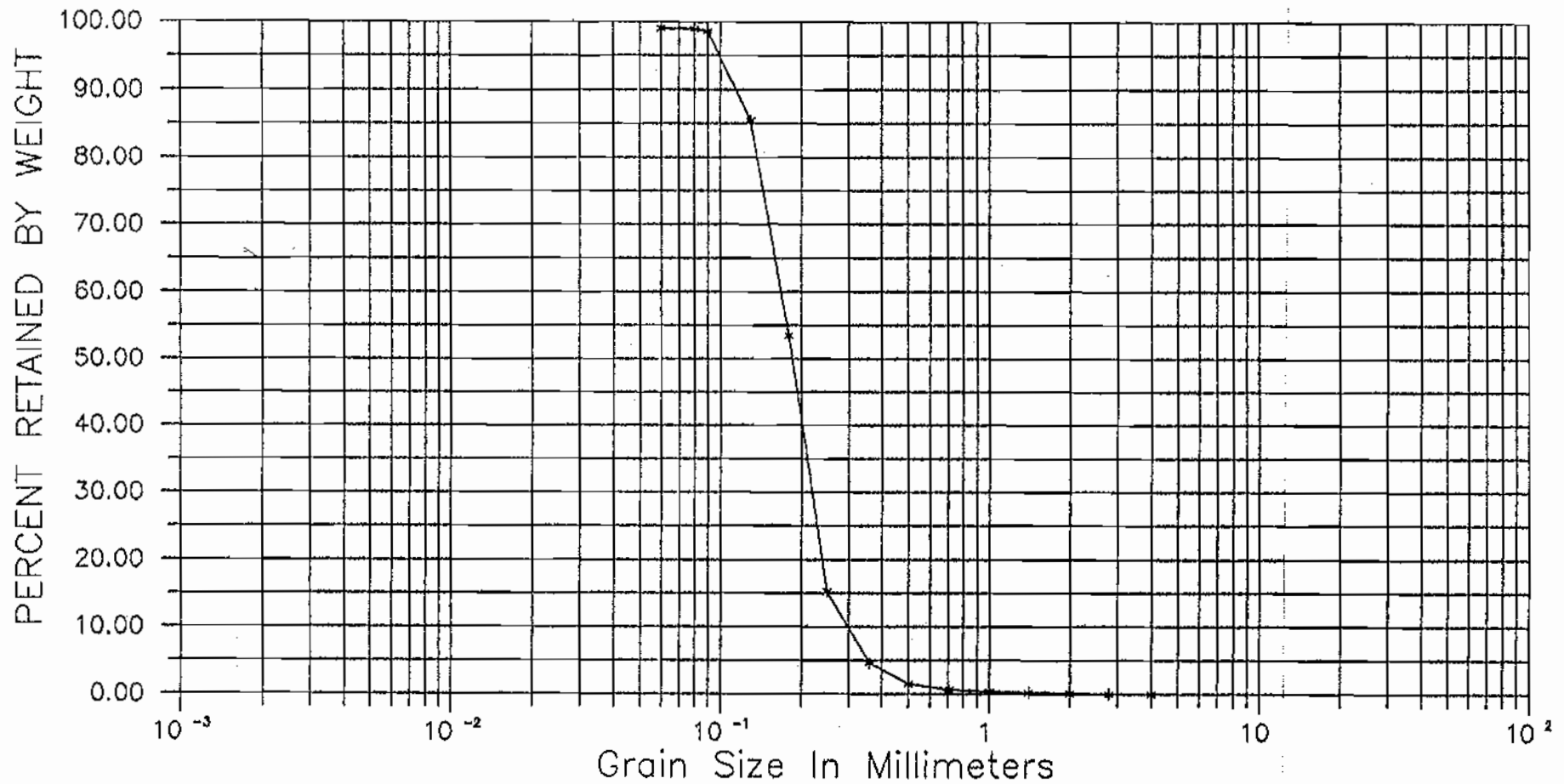
SIEVE LOSS	0.20	0.91	0.35
WEIGHTED AVE(mm)	0.172	0.166	0.173
SILT-CLAY %	0.99	2.04	1.72

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.	19					20				20	
SAMPLE DEPTH (FT)	19.0					3.0				9.0	
U.S.C.S.	SP					SP				SP	
DESCRIPTION											
DRY SAMPLE WT (GRAMS)	296.21					271.32				281.50	
SAMPLE WT AFTER WASH	288.72					267.62				278.71	
SIEVE SIZE	PHI	MESH SIZE (mm)	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS	GRAMS	% RET.	% PASS
5	-2.00	4	0.28	0.09	99.91	1.00	0.37	99.63	0.25	0.09	99.91
7	-1.50	2.8	0.28	0.09	99.91	1.40	0.52	99.48	0.43	0.15	99.85
	-1.00	2	0.65	0.22	99.78	1.87	0.69	99.31	0.55	0.20	99.80
14	-0.50	1.4	0.75	0.25	99.75	2.68	0.99	99.01	0.91	0.32	99.68
18	0.00	1	0.84	0.28	99.72	3.12	1.15	98.85	1.27	0.45	99.55
25	0.50	0.71	1.39	0.47	99.53	3.82	1.41	98.59	20.10	7.14	92.86
35	1.00	0.5	1.69	0.57	99.43	5.13	1.89	98.11	4.93	1.75	98.25
45	1.50	0.355	3.08	1.04	98.96	8.85	3.26	96.74	12.65	4.49	95.51
60	2.00	0.25	10.32	3.48	96.52	24.80	9.14	90.86	45.25	16.07	83.93
80	2.50	0.18	96.30	32.51	67.49	137.65	50.73	49.27	160.71	57.09	42.91
120	3.00	0.125	175.80	59.35	40.65	226.36	83.43	16.57	243.62	86.54	13.46
170	3.50	0.09	284.90	96.18	3.82	265.65	97.91	2.09	276.72	98.30	1.70
200	3.75	0.075	287.15	96.94	3.06	266.04	98.05	1.95	277.85	98.70	1.30
230	4.00	0.063	287.56	97.08	2.92	266.97	98.40	1.60	278.25	98.85	1.15
PAN			288.16	97.28		267.12	98.45		278.33	98.87	
LOSS			0.56			0.50			0.38		
WEIGHTED AVE (mm)			0.140			0.170			0.185		
SILT-CLAY %			2.87			1.76			1.16		
COASTAL PLANNING & ENGINEERING											

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

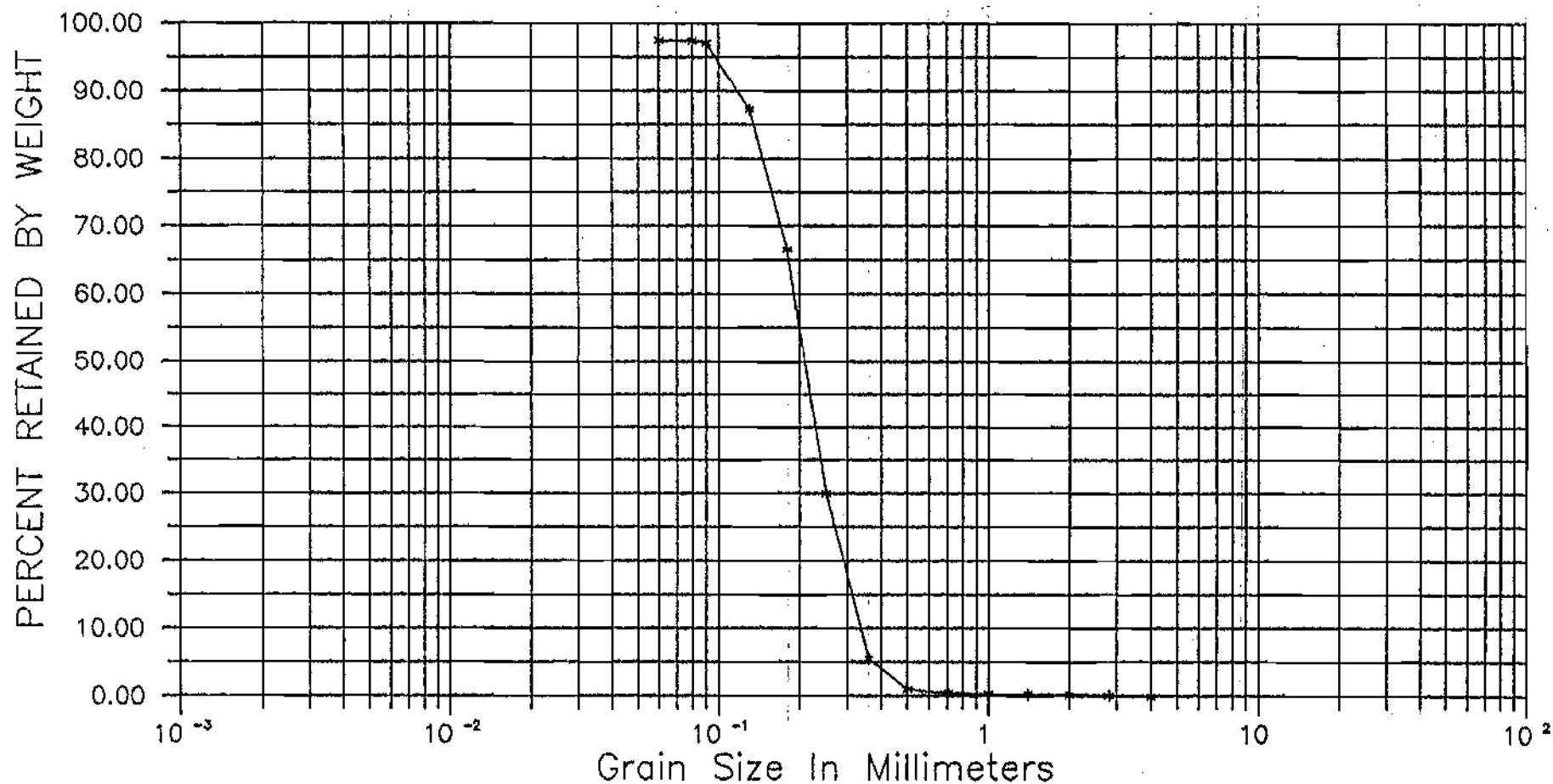
SAMPLE NO.

CLASSIFICATION

19	MEAN	MEDIAN	SORTING
3	.19 mm	.19 mm	12
	.17 mm	.18 mm	38
GREY POORLY GRADED SAND & SLATTERED SHELL - (SP)			

(73)

# MECHANICAL ANALYSIS CHART



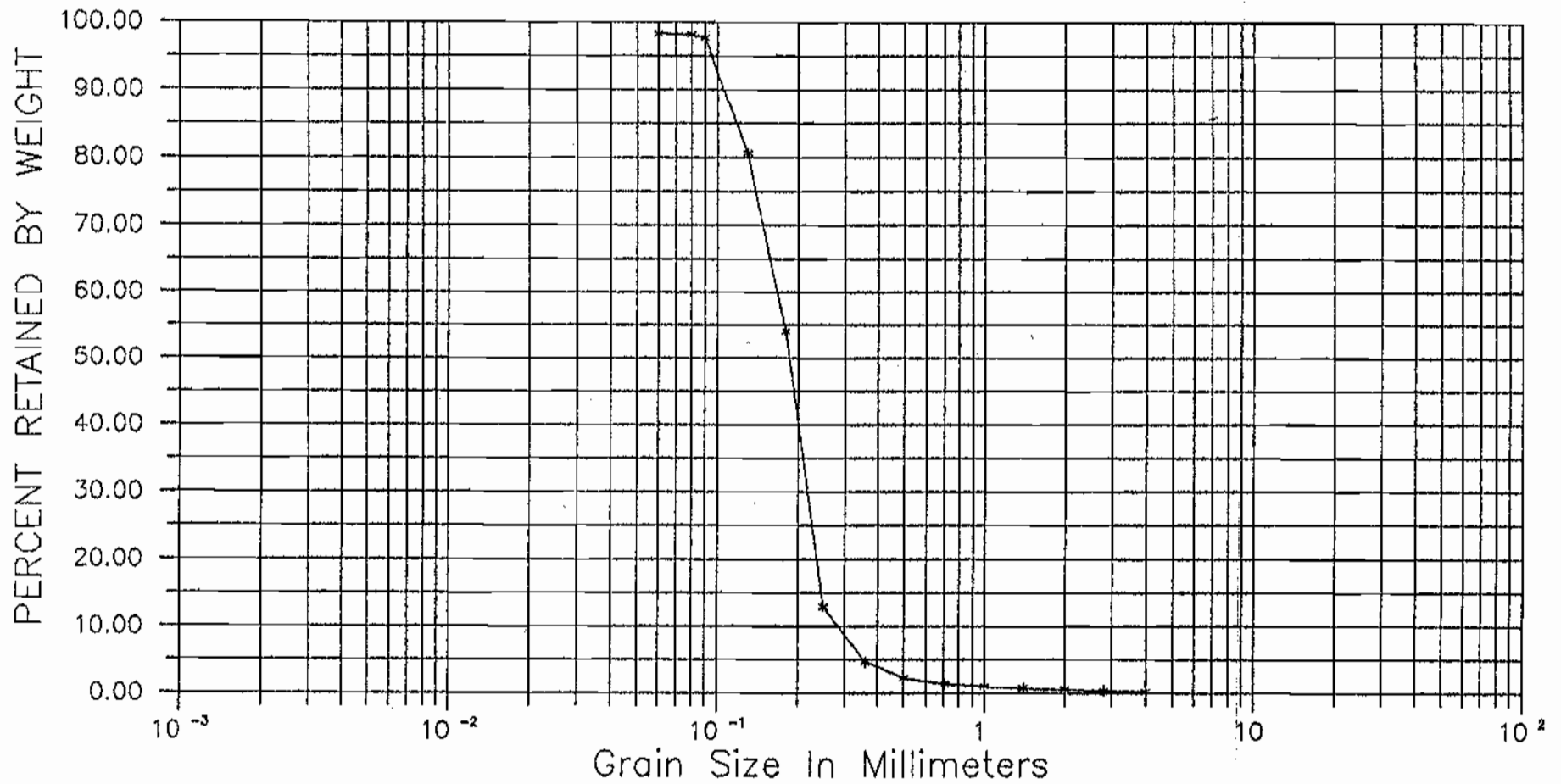
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

19	MEAN	MEDIAN	SORTING
91	2.1 mm	2.1 mm	58
	2.1 mm	2.1 mm	55
	GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)		

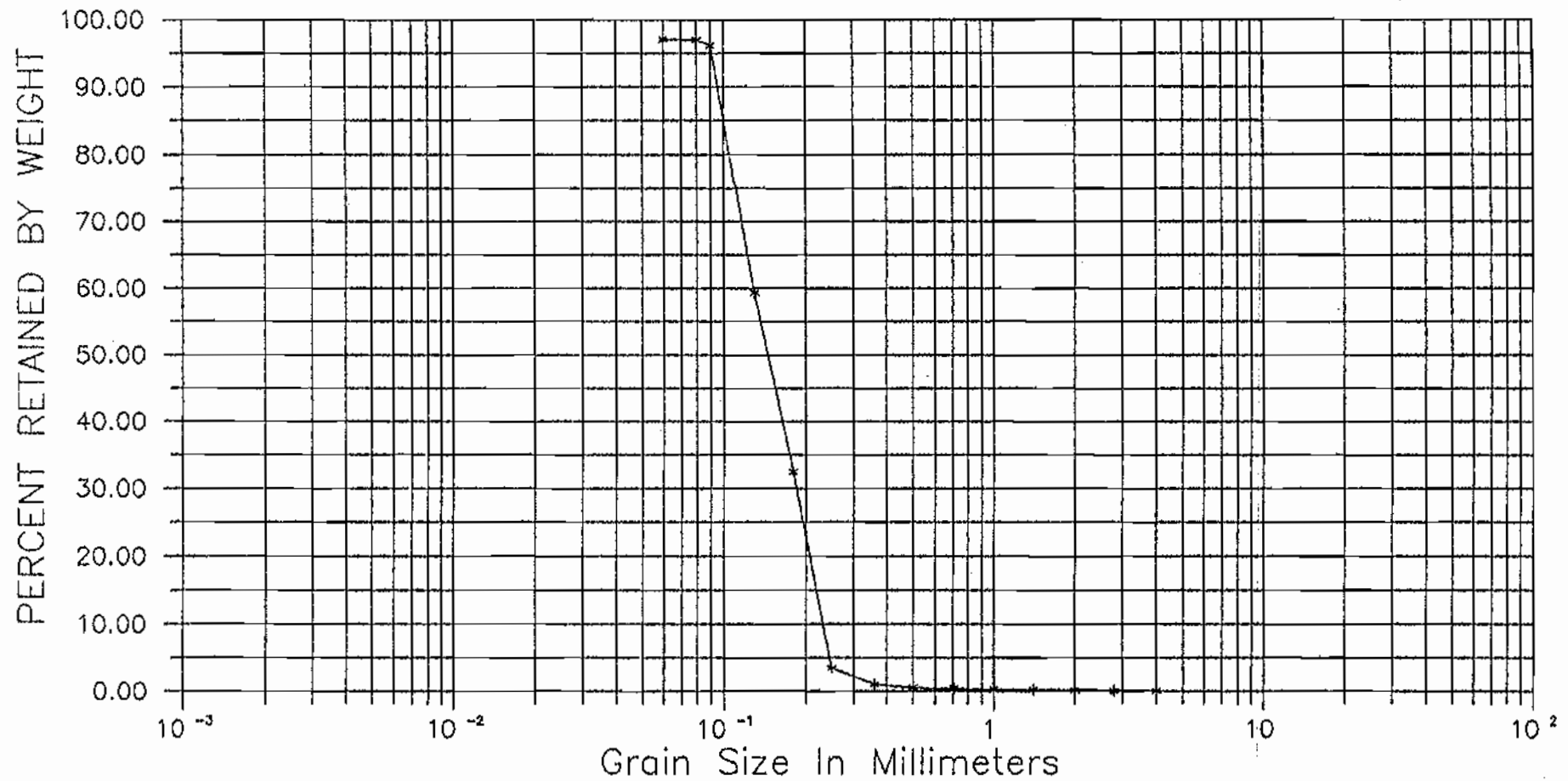
# MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
	MEAN	MEDIAN	SORTING
19			
15'	.18 mm	.18 mm	
	.17 mm	.18 mm	138
GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)			

# MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

19	MEAN	MEDIAN	SORTING
19'	.16 mm	.16 mm	.50
	.14 mm	.14 mm	.54
	GREY POORLY GRADED SAND & SCATTERED SHELL - (SP)		