

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	18
SAMPLE DEPTH (FT)	2.0	3.0	14.0

U.S.C.S. DESCRIPTION	SP	SP	SP
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DRY SAMPLE WT (GRAMS)	259.62	215.8	222.53
SAMPLE WT AFTER WASH	257.50	210.8	219.79

STEVE 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	1.35	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	0.48	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	0.78	99.22
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	61.04	26.73	73.27
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	212.84	81.90	18.10	200.10	92.72	7.28	201.32	90.47	9.53
170	3.50	0.08	234.70	98.10	1.90	212.16	98.31	1.69	217.08	97.91	2.09
200	3.75	0.075	255.02	99.46	1.54	212.65	98.83	1.17	219.20	98.80	1.20
230	4.00	0.053	235.10	98.64	1.36	213.09	98.74	1.26	219.39	98.61	1.41
PAN			256.37	98.75		213.13	98.76		219.43	98.81	

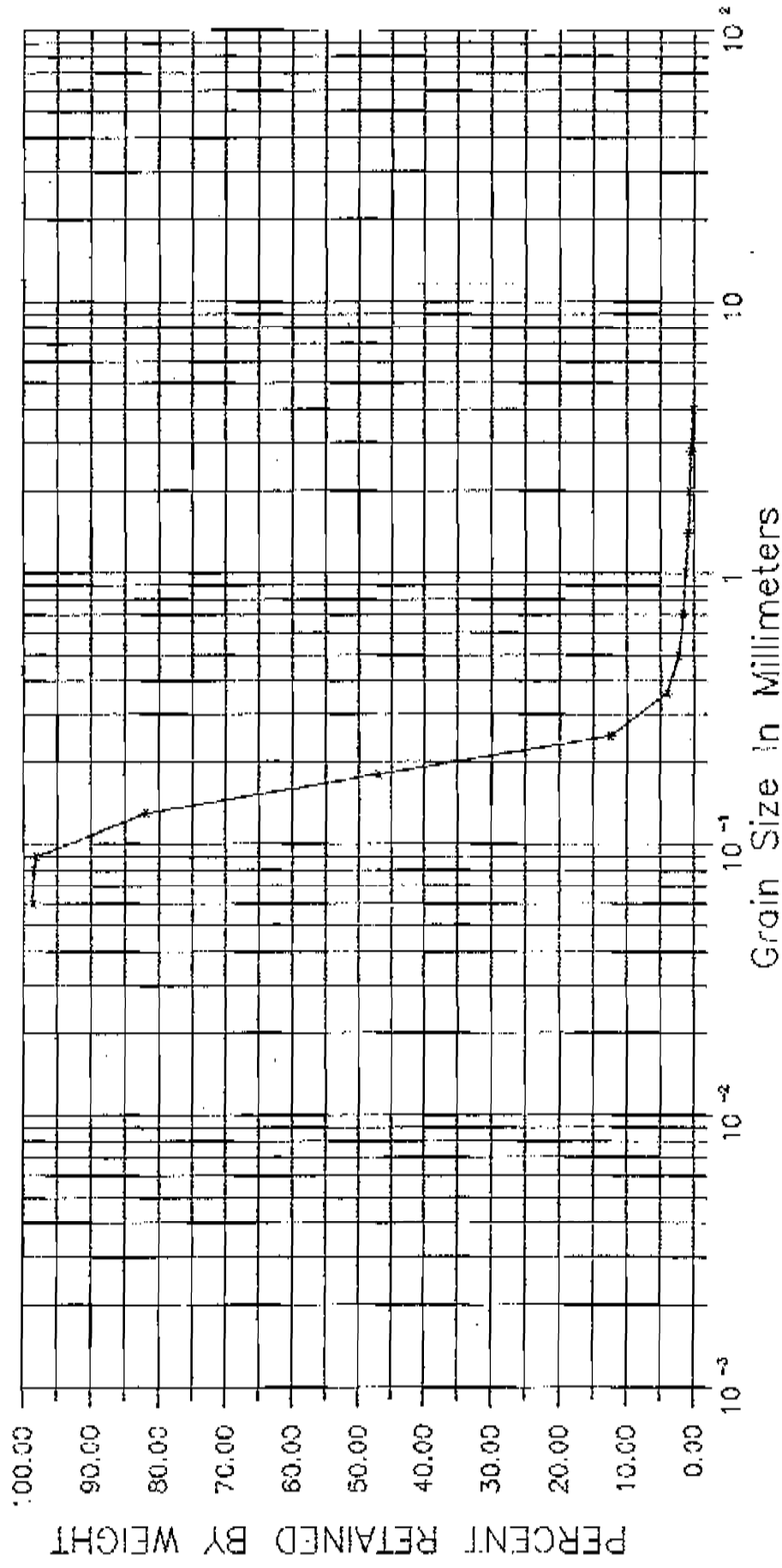
SIEVE LOSS	1.22	0.67	0.86
WEIGHTED AVE(mm)	0.181	0.164	0.180
SILT-CLAY %	1.07	1.05	1.33

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 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.	SP					SP				SP	
DESCRIPTION											
DRY SAMPLE WT (GRAMS)	195.21					237.02				246.91	
SAMPLE WT AFTER WASH	191.92					235.01				242.53	
SIEVE SIZE	PII 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	0.35	99.64	0.17	0.07	99.83	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	5.66	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
30	1.00	0.5	7.03	3.60	96.40	0.23	9.47	90.53	14.72	5.96	94.04
45	1.50	0.355	11.81	6.05	93.95	25.78	10.88	89.12	28.21	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	188.80	97.23	2.77	232.55	96.11	1.89	240.71	97.49	2.51
200	3.75	0.075	191.23	97.96	2.04	233.78	96.63	1.37	241.29	97.72	2.28
230	4.00	0.063	191.48	98.09	1.91	234.28	96.84	1.16	241.56	97.83	2.17
PAN			191.54	98.12		234.60	96.96		241.60	97.85	
SIEVE LOSS	0.88					0.41			0.83		
WEIGHTED AVE(mm)	0.183					0.240			0.332		
SILT-CLAY %	1.84					1.19			1.90		

MECHANICAL ANALYSIS CHART

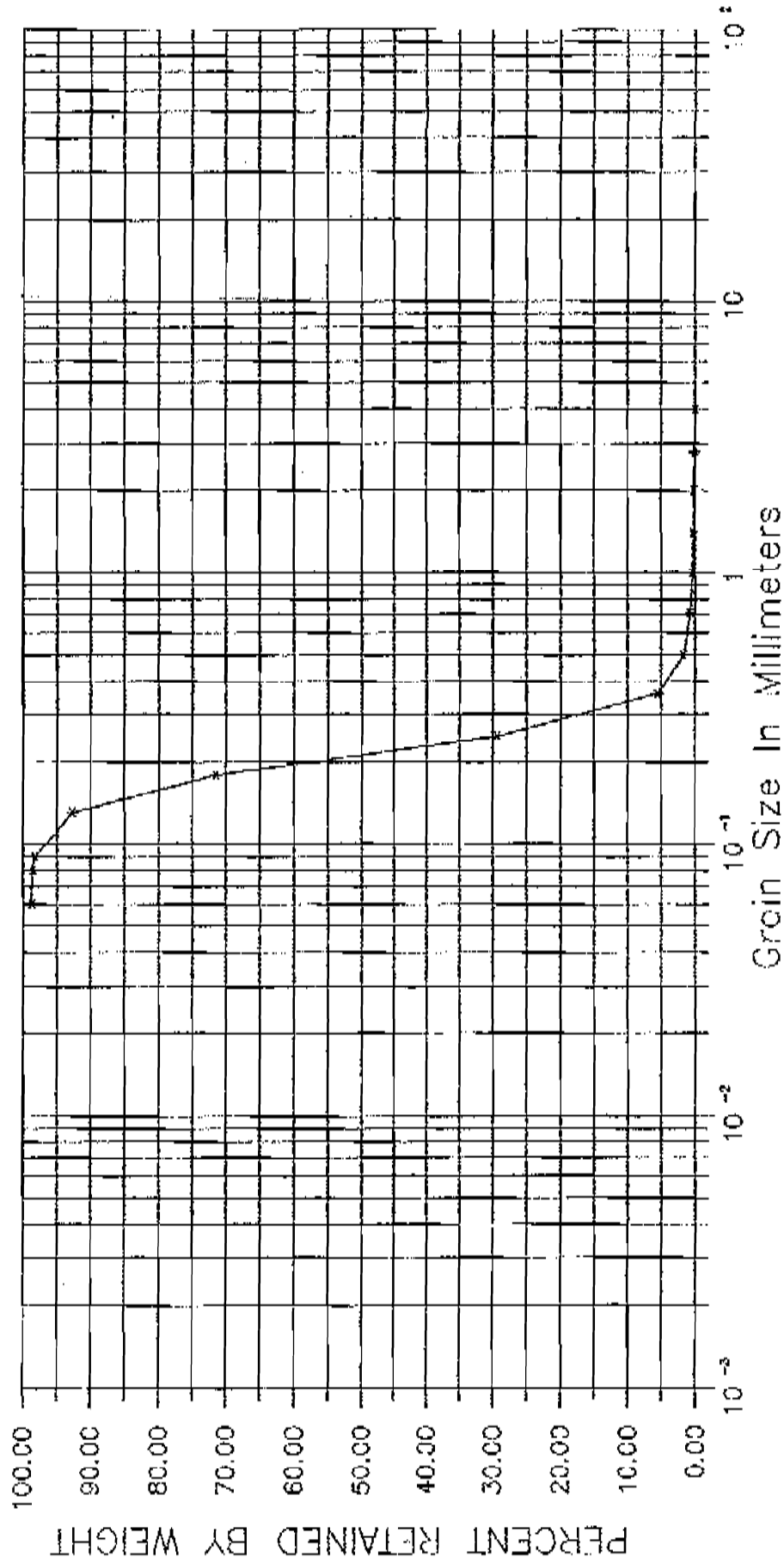


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

16	MEAN	MEDIAN	SORTING
2.0	0.17mm	0.18mm	0.47
	0.17mm	0.18mm	0.38
	GREY POORLY GRADED SAND (SP)		

MECHANICAL ANALYSIS CHART

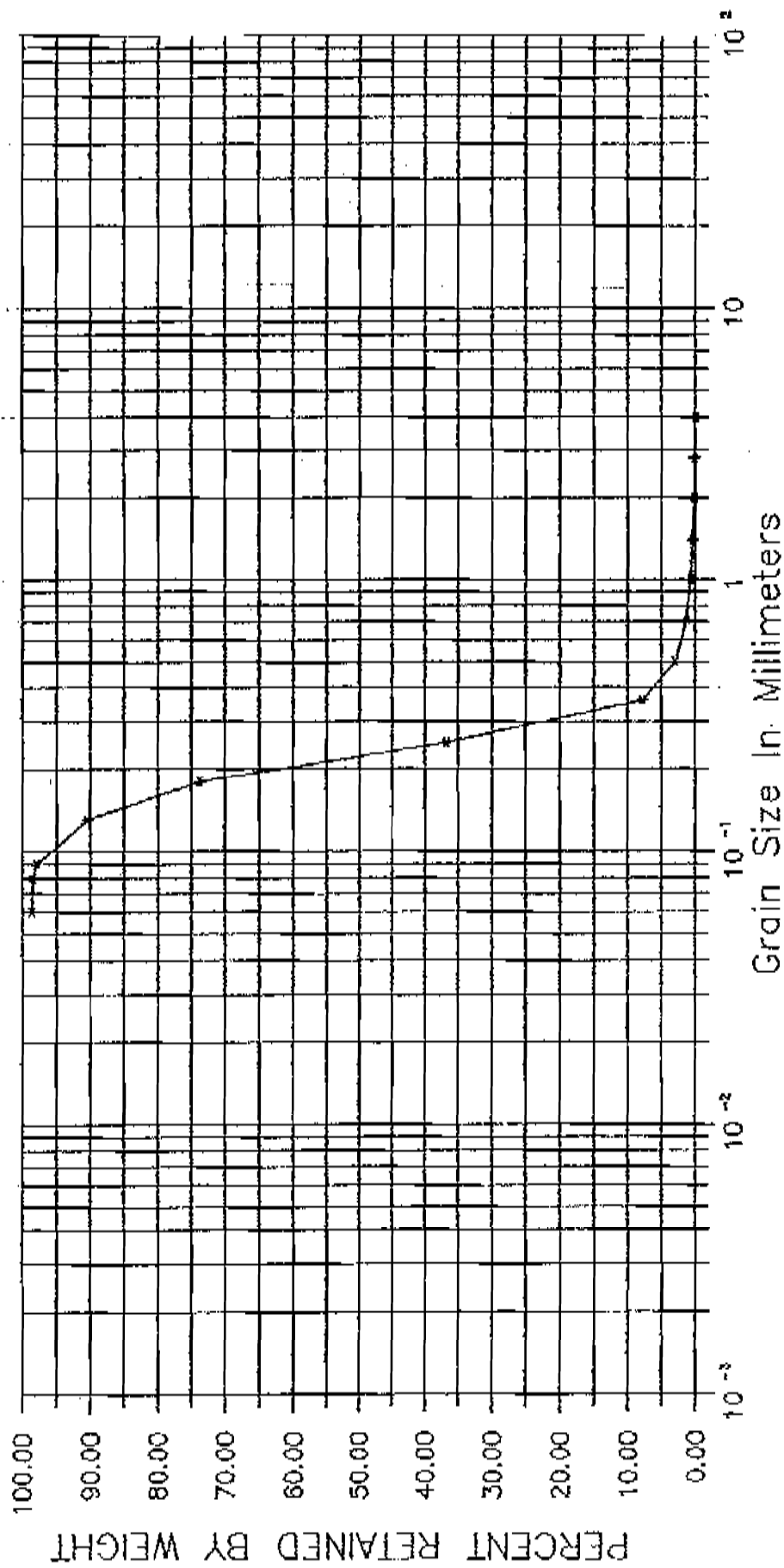


SILT OR CLAY		SAND		GRAVEL	
FINE	COARSE	FINE	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

SAMPLE NO.	MEAN	MEDIAN	SORTING
14			
8			
	22.000	2.000	52
	POORLY GRADED SAND-(SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO. CLASSIFICATION

16	MEAN	MEDIAN	SORTING
147	0.23mm	0.3mm	4.8
	0.22mm	0.22mm	1.57
	GREY POORLY GRADED SAND (SP)		

PERCENT RETAINED BY WEIGHT



SAMPLE NO.

CLASSIFICATION

	MEAN	MEDIAN	SORTING
10	8.4	10.5	1.7
18	10.0	11.0	1.50
	GREY POOLY GRADED SAND & SCATTERED SHELL - (SP)		