

# VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH - LAKE WORTH INLET</u> Core No: <u>5</u>						
Coordinates:		Date: <u>9-21-88</u>		Water Depth <u>35'</u> NGVD		
N = <u>887856.0</u>		Start Time <u>1547</u>		Driller <u>RODNEY MEYER</u>		
E = <u>817491.5</u>		End Time <u>1630</u>		Client Rep. <u>JEFF ANDREWS</u>		

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u> Length of Barrel <u>20'</u> Penetration Depth <u>20'</u> Length Recovered <u>20'</u> Length Retained <u>20'</u> Remarks: <u>PENETRATION TIME 16 MIN</u>		0				
				COARSE SAND & SHELL		
				COARSE SAND & SHELL	2.2'	(SP)
				GREY SAND (104R 7/1)		
		5			5.8'	(SP)
Support Vessel <u>M-3</u> Positioning System <u>TRISPOUNDER</u> Positioning Remarks:				COARSE SAND, SHELL & CORAL		
		10		GREY SAND (10 4R 7/1)	10.5'	(SP)
Weather <u>CLEAR</u> Wind Dir: <u>SE</u> Est. Speed <u>5-10 Knots</u> Waves Dir: <u>SE</u> Height <u>0-2'</u> Current Dir: <u>NORTH</u> Est. Speed: <u>1-2 Knots</u>				LRG SHELL SMALL CORAL		
		15				
				CORAL		
				1" DIA CORAL		
				CEMENTED SANDS		
Analysis By: <u>FK</u> Date: <u>9/25/88</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>					17.7'	(SP)
		20				

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

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LINE NO. CORE #5  
SAMPLE ELEVATION 2.2' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 512.42  
SAMPLE WEIGHT AFTER WASH 508.80  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	2.26	.44	99.56
7	-1.50	2.8	4.03	.79	99.21
10	-1.00	2.0	8.06	1.57	98.43
14	-0.50	1.4	17.51	3.42	96.58
18	0.00	1.0	36.11	7.05	92.95
25	0.50	0.71	64.35	12.56	87.44
35	1.00	0.5	136.74	26.69	73.31
45	1.50	0.355	297.70	58.10	41.90
60	2.00	0.25	388.78	75.87	24.13
80	2.50	0.18	432.96	84.49	15.51
120	3.00	0.125	498.55	97.29	2.71
170	3.50	0.09	507.75	99.09	.91
200	3.75	0.075	507.77	99.09	.91
230	4.00	0.063	507.82	99.46	.54
PAN			507.84	99.46	.54

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SIEVE LOSS .96 MEDIAN (mm) .392  
WT. AVE. (mm) .407 MEAN (mm) .348  
SILT/CLAY % .72 SORTING .920  
PHI(16) .602 PHI(84) 2.442  
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GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

-----  
LINE NO. CORE #5  
SAMPLE ELEVATION 5.8' DEEP  
-----

USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 488.47  
SAMPLE WEIGHT AFTER WASH 480.94  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.21	.04	99.96
7	-1.50	2.8	.62	.13	99.87
10	-1.00	2.0	1.30	.27	99.73
14	-0.50	1.4	3.45	.71	99.29
18	0.00	1.0	8.59	1.76	98.24
25	0.50	0.71	21.17	4.33	95.67
35	1.00	0.5	55.45	11.35	88.65
45	1.50	0.355	124.72	25.53	74.47
60	2.00	0.25	234.90	48.09	51.91
80	2.50	0.18	285.16	58.38	41.62
120	3.00	0.125	441.12	90.31	9.69
170	3.50	0.09	478.14	97.89	2.11
200	3.75	0.075	479.37	98.14	1.86
230	4.00	0.063	479.88	99.01	.99
PAN			480.50	99.14	.86

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SIEVE LOSS .44 MEDIAN (mm) .237  
WT. AVE. (mm) .253 MEAN (mm) .248  
SILT/CLAY % 1.77 SORTING .868  
PHI(16) 1.144 PHI(84) 2.880  
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GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

-----  
LINE NO. CORE #5  
SAMPLE ELEVATION 10.5' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 517.41  
SAMPLE WEIGHT AFTER WASH 510.57  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	4.45	.86	99.14
7	-1.50	2.8	5.31	1.03	98.97
10	-1.00	2.0	6.55	1.27	98.73
14	-0.50	1.4	8.17	1.58	98.42
18	0.00	1.0	13.36	2.58	97.42
25	0.50	0.71	24.50	4.74	95.26
35	1.00	0.5	60.57	11.71	88.29
45	1.50	0.355	197.53	38.18	61.82
60	2.00	0.25	299.20	57.83	42.17
80	2.50	0.18	388.71	75.13	24.87
120	3.00	0.125	489.21	94.55	5.45
170	3.50	0.09	508.87	98.35	1.65
200	3.75	0.075	509.22	98.42	1.58
230	4.00	0.063	509.84	99.20	.80
PAN			510.00	99.23	.77

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SIEVE LOSS .57 MEDIAN (mm) .292  
WT. AVE. (mm) .315 MEAN (mm) .272  
SILT/CLAY % 1.47 SORTING .811  
PHI(16) 1.070 PHI(84) 2.691  
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GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

SAMPLE TYPE: CORE SAMPLES  
NAME: FGK  
DATE: OCT. 3, 1988

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LINE NO. CORE #5  
SAMPLE ELEVATION 17.7'  
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USCS  
DESCRIPTION  
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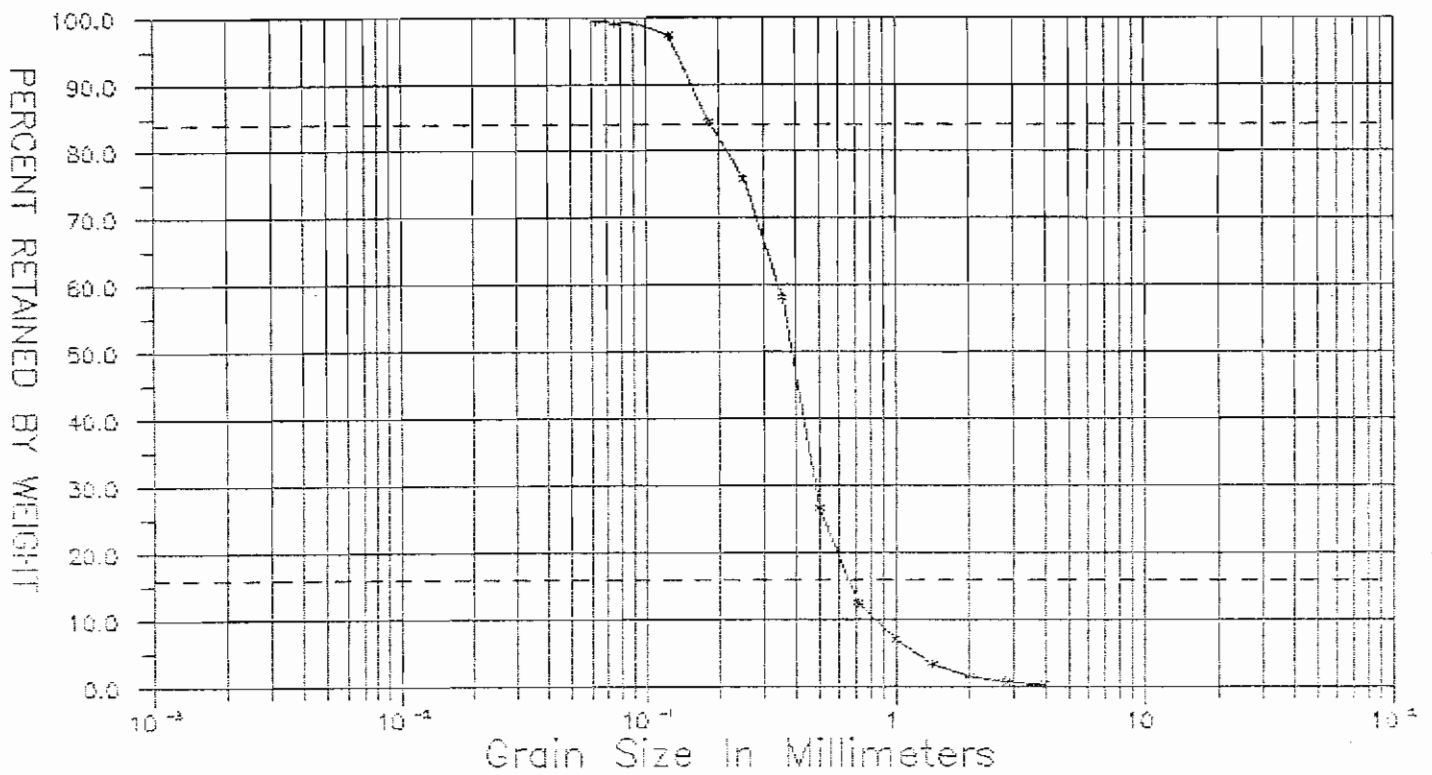
DRY SAMPLE WT. (GRAMS) 459.95  
SAMPLE WEIGHT AFTER WASH 447.06  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.00 0	.00	100.00
7	-1.50	2.8	.60	.13	99.87
10	-1.00	2.0	.03 1.32	.29	99.71
14	-0.50	1.4	.1 2.71	.59	99.41
18	0.00	1.0	.2 5.41	1.18	98.82
25	0.50	0.71	.39 10.49	2.28	97.72
35	1.00	0.5	.76 27.79	6.04	93.96
45	1.50	0.355	2.01 107.28	23.32	76.68
60	2.00	0.25	7.74 214.50	46.64	53.36
80	2.50	0.18	15.42 293.82	63.88	36.12
120	3.00	0.125	21.21 421.55	91.65	8.35
170	3.50	0.09	30.42 444.23	96.58	3.42
200	3.75	0.075	32.06 444.58	96.66	3.34
230	4.00	0.063	32.07 446.21	98.41	1.59
PAN			32.22 446.37	98.45	1.55

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SIEVE LOSS	.69	MEDIAN (mm)	.236
WT. AVE. (mm)	.240	MEAN (mm)	.242
SILT/CLAY %	3.19	SORTING	.786
PHI(16)	1.264	PHI(84)	2.835

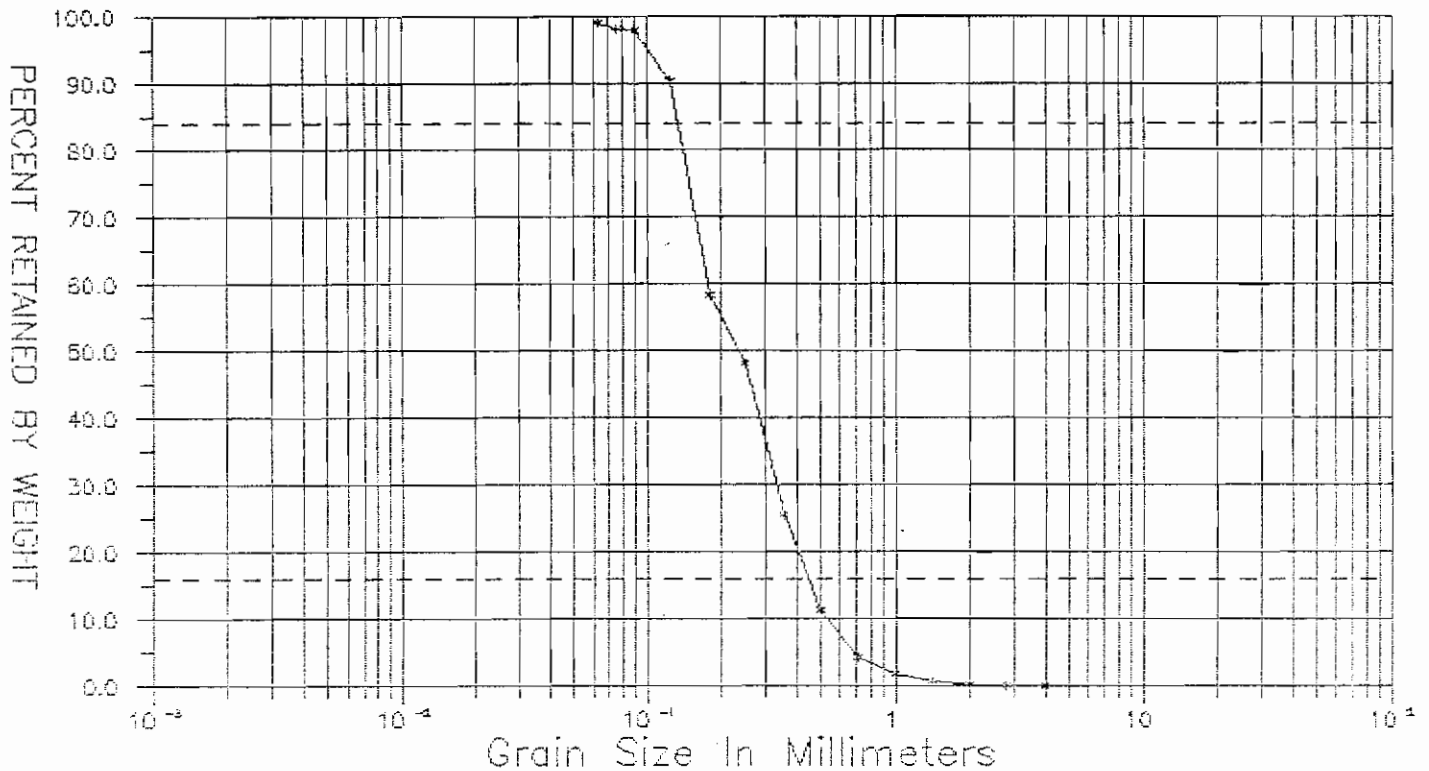
# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE # & DPTH	MEAN	MEDIAN	SORTING	USCS
9/20/88	.348	.392	.920	SP

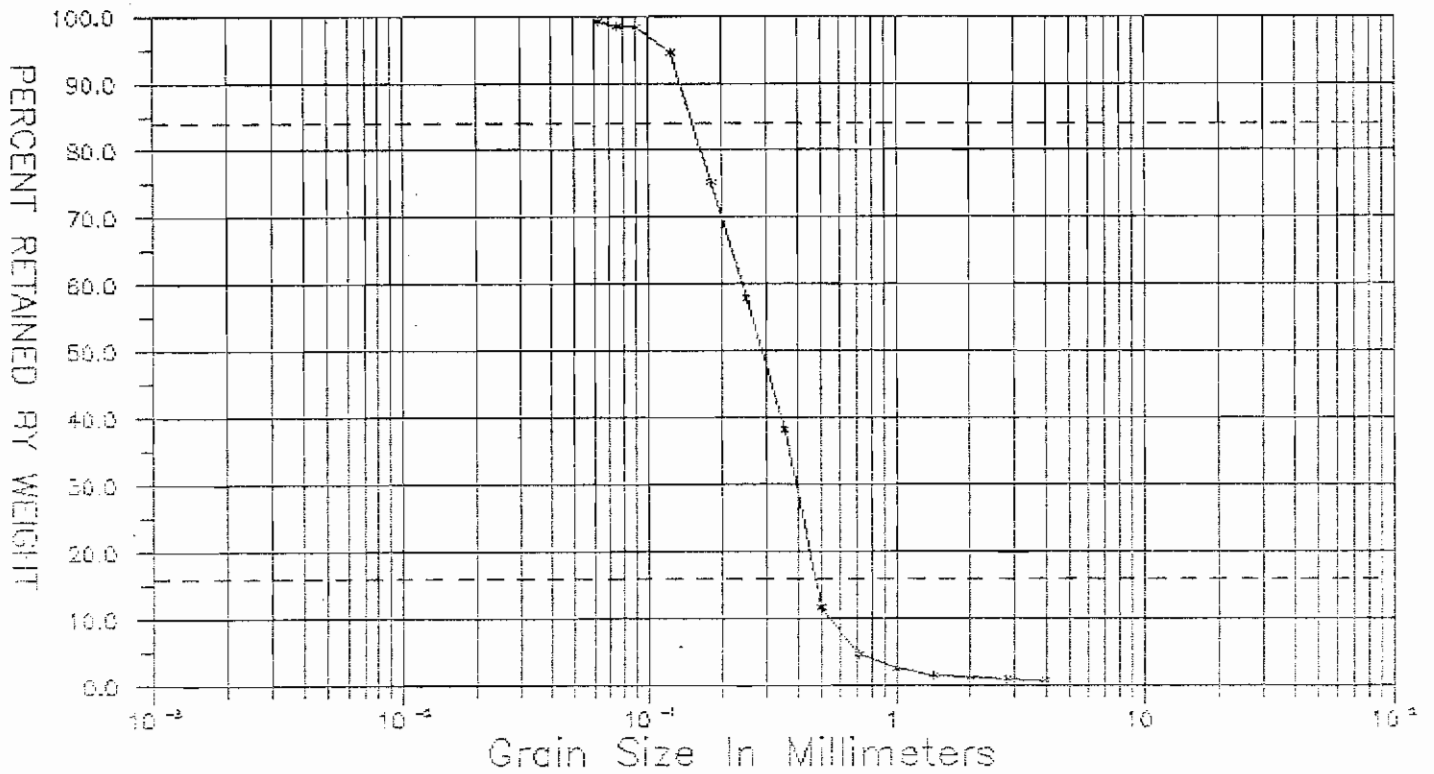
# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #/S	MEAN	MEDIAN	SORTING	USCS
9/20/98	.248	.237	.969	SP

# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART

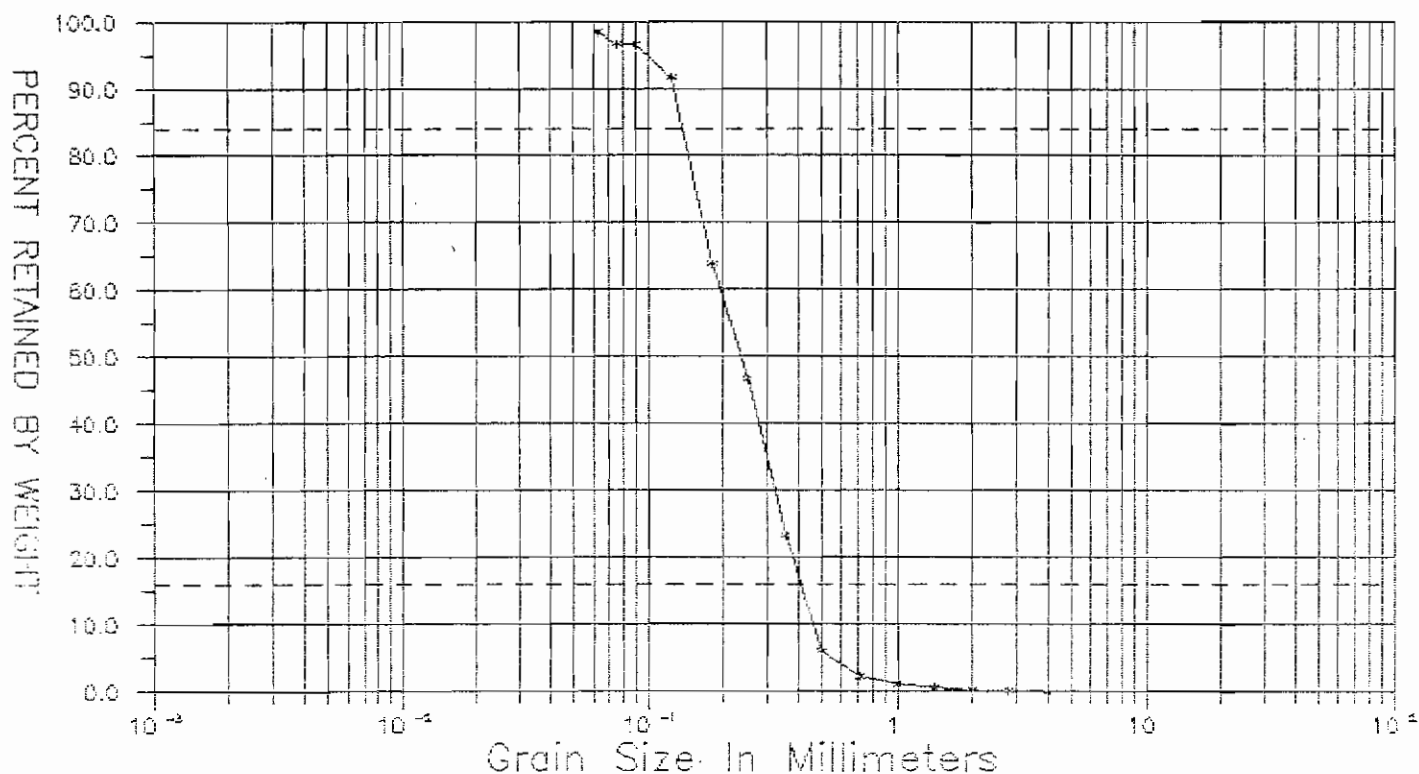


SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #	DATE	MEAN	MEDIAN	USCS
5	10/81	.272	.292	.811
9/20/88				SP



# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #	DATE	MEAN	MEDIAN	USCS
5	9/20/88	.242	.236	.788
				SP