

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 #7
SAMPLE ELEVATION 1.5' DEEP

USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 647.98
SAMPLE WEIGHT AFTER WASH 643.20

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.98 .05	.15	99.85
7	-1.50	2.8	2.27 .12	.35	99.65
10	-1.00	2.0	4.95 .27	.76	99.24
14	-0.50	1.4	6.17 .34	.95	99.05
18	0.00	1.0	15.45 .25	2.38	97.62
25	0.50	0.71	40.57 1.24	6.26	93.74
35	1.00	0.5	210.63 11.13	32.51	67.49
45	1.50	0.355	550.01 30.37	84.88	15.12
60	2.00	0.25	577.90 21.91	89.18	10.82
80	2.50	0.18	600.00 33.13	92.60	7.40
120	3.00	0.125	634.60 35.07	97.94	2.06
170	3.50	0.09	641.00 35.40	98.92	1.08
200	3.75	0.075	642.04 35.45	99.08	.92
230	4.00	0.063	642.54 35.48	99.53	.47
PAN			642.60 35.48	99.54	.46

SIEVE LOSS .60 MEDIAN (mm) .452
WT. AVE. (mm) .409 MEAN (mm) .475
SILT/CLAY % .82 SORTING .411
PHI(16) .662 PHI(84) 1.484

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SAMPLE TYPE: CORE SAMPLES

NAME: FGK

DATE: OCT. 3, 1988

LINE NO. CORE #7
SAMPLE ELEVATION 7.6' DEEP

USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 480.36
SAMPLE WEIGHT AFTER WASH 476.59

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.23	.05	99.95
7	-1.50	2.8	.56	.12	99.88
10	-1.00	2.0	1.45	.30	99.70
14	-0.50	1.4	1.76	.37	99.63
18	0.00	1.0	2.94	.61	99.39
25	0.50	0.71	7.92	1.65	98.35
35	1.00	0.5	18.67	3.89	96.11
45	1.50	0.355	60.42	12.58	87.42
60	2.00	0.25	117.96	24.56	75.44
80	2.50	0.18	274.95	57.24	42.76
120	3.00	0.125	462.02	96.18	3.82
170	3.50	0.09	474.21	98.72	1.28
200	3.75	0.075	475.42	98.97	1.03
230	4.00	0.063	475.49	99.38	.62
PAN			475.93	99.47	.53

SIEVE LOSS .66 MEDIAN (mm) .196
WT. AVE. (mm) .202 MEAN (mm) .215
SILT/CLAY % .89 SORTING .596
PHI(16) 1.621 PHI(84) 2.814

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TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

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

LINE NO. CORE #7
SAMPLE ELEVATION 12.5' DEEP

USCS
DESCRIPTION

DRY SAMPLE WT. (GRAMS) 637.49
SAMPLE WEIGHT AFTER WASH 633.54

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	1.02	.16	99.84
7	-1.50	2.8	2.04	.32	99.68
10	-1.00	2.0	2.95	.46	99.54
14	-0.50	1.4	6.17	.97	99.03
18	0.00	1.0	13.62	2.14	97.86
25	0.50	0.71	37.94	5.95	94.05
35	1.00	0.5	207.96	32.62	67.38
45	1.50	0.355	521.82	81.86	18.14
60	2.00	0.25	566.47	88.86	11.14
80	2.50	0.18	599.71	94.07	5.93
120	3.00	0.125	622.31	97.62	2.38
170	3.50	0.09	629.07	98.68	1.32
200	3.75	0.075	629.85	98.80	1.20
230	4.00	0.063	632.07	99.46	.54
PAN			632.91	99.59	.41

SIEVE LOSS .63 MEDIAN (mm) .449
WT. AVE. (mm) .403 MEAN (mm) .451
SILT/CLAY % 1.10 SORTING .483
PHI(16) .665 PHI(84) 1.631

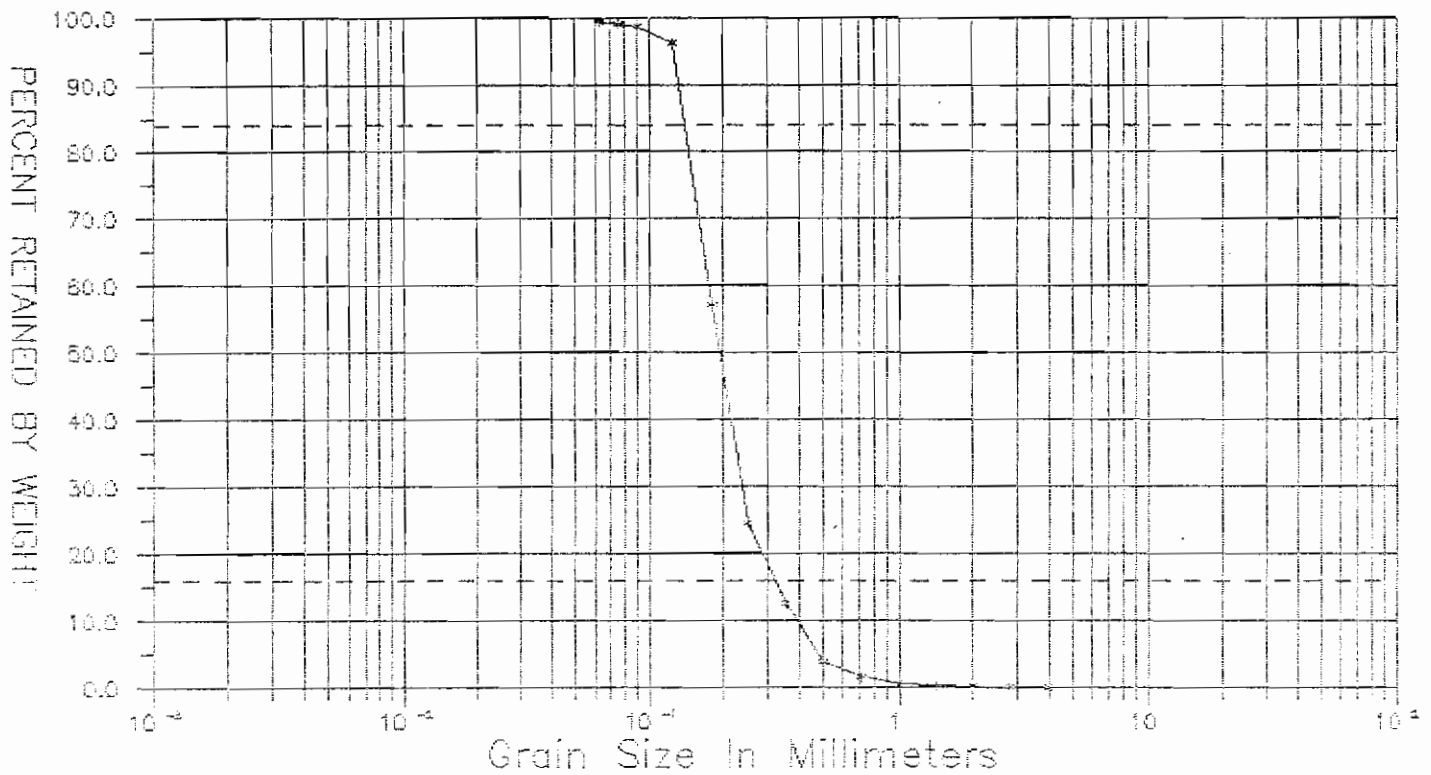
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TOWN OF PALM BEACH VIBRACORES 9/20 & 9/21/88

Grain size distribution curve for a soil sample. The graph plots Percent Retained by Weight (0.0 to 100.0) against Grain Size in Millimeters (logarithmic scale from 10^{-3} to 10^1). The curve shows a sharp drop between 0.075 mm and 0.25 mm, indicating a well-graded soil. A dashed horizontal line is drawn at 85% retention.

Grain Size (mm)	Percent Retained (%)
0.075	100.0
0.15	95.0
0.25	85.0
0.375	65.0
0.5	40.0
0.75	20.0
1.0	10.0
2.0	5.0
4.0	2.0
7.5	1.0
15.0	0.5
30.0	0.2
60.0	0.1
100.0	0.0

SAMPLE NO.		CLASSIFICATION		
CORE #7 10'	MEAN	MEDIAN	SCORING	USGS
9/21/88	.475	.452	.417	SP

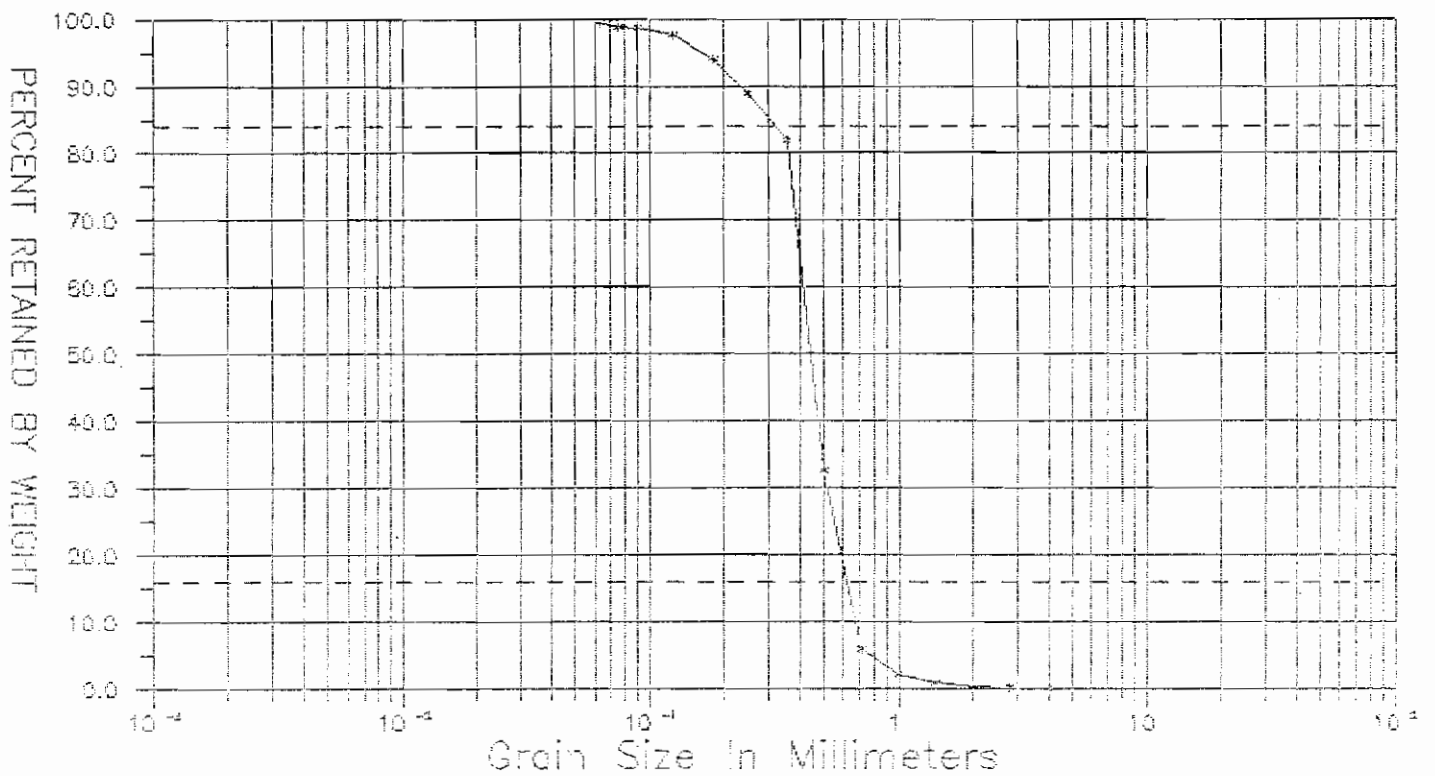
TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION			
CORE #	DATE	MEAN	MEDIAN	SORTING	USCS
7	9/21/88	.215	.198	.598	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
7	5/21/88	451	449	SP