

## VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH LAKE WORTH INLET</u>		Core No: <u>4</u>	
Coordinates:	Date: <u>9-20-88</u>	Water Depth <u>49'</u>	NGVD
N = <u>888340.2</u>	Start Time <u>1430</u>	Driller <u>RODNEY MEYER</u>	
E = <u>818530.6</u>	End Time <u>1510</u>	Client Rep. <u>JEFF ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>		0				
Length of Barrel <u>20'</u>				GREY SAND (104R 711)	1.9'	(SP)
Penetration Depth <u>12.5'</u>						
Length Recovered <u>12.1'</u>						
Length Retained <u>12.1'</u>						
Remarks:						
<u>PENETRATION TIME 5 MIN</u>						
Support Vessel <u>M-3</u>		5		3" DIAM CORAL		
Positioning System <u>TRISponder</u>				2" DIAM STONE SILTY		
Positioning Remarks:				COARSE GREY SAND, SHELL & CEMENTED SANDS (104R 711)	7.4'	(SP)
		10		3" DIAM CORAL		
Weather <u>CLEAR</u>				COARSE SAND & SHELL (104R 613)		
Wind				CEMENTED SAND		
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>		15				
Est. Speed: <u>1-2 Knots</u>						
Analysis By: <u>EK</u>						
Date: <u>9/25/88</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL LOG</u>		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 #4  
SAMPLE ELEVATION 1.9' DEEP  
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USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 562.39  
SAMPLE WEIGHT AFTER WASH 554.07  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	.51	.09	99.91
7	-1.50	2.8	1.61	.29	99.71
10	-1.00	2.0	5.12	.91	99.09
14	-0.50	1.4	14.18	2.52	97.48
18	0.00	1.0	30.45	5.41	94.59
25	0.50	0.71	53.45	9.50	90.50
35	1.00	0.5	110.00	19.56	80.44
45	1.50	0.355	307.13	54.61	45.39
60	2.00	0.25	391.25	69.57	30.43
80	2.50	0.18	489.10	86.97	13.03
120	3.00	0.125	543.17	96.58	3.42
170	3.50	0.09	553.20	98.37	1.63
200	3.75	0.075	553.53	98.42	1.58
230	4.00	0.063	553.57	99.17	.83
PAN			553.63	99.18	.82

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SIEVE LOSS .44 MEDIAN (mm) .374  
WT. AVE. (mm) .365 MEAN (mm) .332  
SILT/CLAY % 1.50 SORTING .791  
PHI(16) .800 PHI(84) 2.381  
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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 #4  
SAMPLE ELEVATION 7.4' DEEP  
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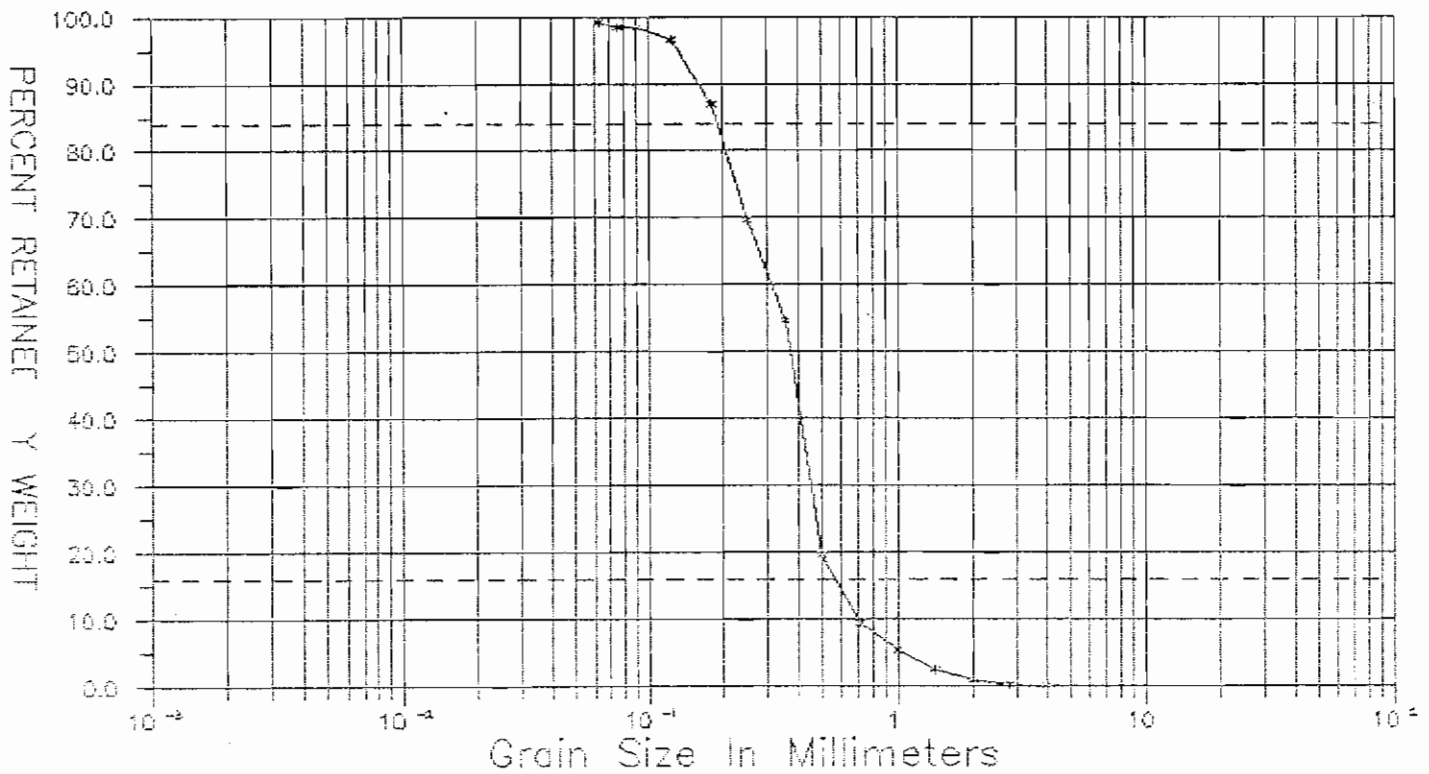
USCS  
DESCRIPTION  
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DRY SAMPLE WT. (GRAMS) 521.45  
SAMPLE WEIGHT AFTER WASH 512.21  
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SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	%RET.	%PASS
5	-2.00	4.0	13.86	2.66	97.34
7	-1.50	2.8	18.94	3.63	96.37
10	-1.00	2.0	23.50	4.51	95.49
14	-0.50	1.4	31.31	6.00	94.00
18	0.00	1.0	42.04	8.06	91.94
25	0.50	0.71	53.24	10.21	89.79
35	1.00	0.5	78.34	15.02	84.98
45	1.50	0.355	146.87	28.17	71.83
60	2.00	0.25	243.24	46.65	53.35
80	2.50	0.18	295.97	56.76	43.24
120	3.00	0.125	491.52	94.26	5.74
170	3.50	0.09	507.24	97.27	2.73
200	3.75	0.075	507.94	97.41	2.59
230	4.00	0.063	508.59	98.42	1.58
PAN			509.30	98.56	1.44

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SIEVE LOSS 2.91 MEDIAN (mm) .227  
WT. AVE. (mm) .400 MEAN (mm) .262  
SILT/CLAY % 2.03 SORTING .902  
PHI(16) 1.031 PHI(84) 2.836  
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# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
CORE #	1.9	MEAN	MEDIAN	USCS
9/20/88		.332	.374	SP

# TOWN OF PALM BEACH VIBRACORES MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.		CLASSIFICATION		
OCRE #4 7.4'	MEAN	MEDIAN	SORTING	USCS
9/20/88	.262	.227	.902	SP