

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 5/20/1999

SAMPLE NO.: VC99 26#1  
SAMPLE ELEV. (FT. NGVD): -39.1  
SAMPLE DEPTH (FT.): 3.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.71  
SAMPLE WEIGHT AFTER WASH (GRAMS): 79.63

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.00	0.00	100.00
7	-1.50	2.800	0.04	0.05	99.95
10	-1.00	2.000	0.18	0.22	99.78
14	-0.50	1.400	0.34	0.42	99.58
18	0.00	1.000	0.61	0.76	99.24
25	0.50	0.710	1.05	1.30	98.70
35	1.00	0.500	1.82	2.25	97.75
45	1.50	0.355	2.66	3.30	96.70
60	2.00	0.250	4.95	6.13	93.87
80	2.50	0.180	11.72	14.52	85.48
120	3.00	0.125	44.84	55.56	44.44
170	3.50	0.090	78.47	97.22	2.78
200	3.75	0.075	79.45	98.44	1.56
230	4.00	0.063	80.12	99.27	0.73
PAN			80.68	99.96	0.04

PHI(5): 1.80 PHI(16): 2.52 PHI(25): 2.63  
PHI(50): 2.93 PHI(75): 3.23 PHI(84): 3.34  
PHI(95): 3.47

SIEVE LOSS(g): 0.03 SILT/CLAY: 1.56%  
SKEWNESS: -0.718 KURTOSIS: 1.132

GRAPHIC METHOD

MEAN (PHI): 2.81 SORTING: 0.41  
MEAN (mm): 0.14 MEDIAN (mm): 0.13  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.83 SORTING: 0.60  
MEAN (mm): 0.14

DATA FILE NAME: VC99-26#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7/6/99

SAMPLE NO.: VC99-26 #2  
SAMPLE ELEV. (FT. NGVD): -41.4  
SAMPLE DEPTH (FT.): 6.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 223.25  
SAMPLE WEIGHT AFTER WASH (GRAMS): 220.38

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.25	0.11	99.89
5	-2.00	4.000	3.17	1.42	98.58
7	-1.50	2.800	5.38	2.41	97.59
10	-1.00	2.000	8.06	3.61	96.39
14	-0.50	1.400	12.34	5.53	94.47
18	0.00	1.000	17.38	7.78	92.22
25	0.50	0.710	23.22	10.40	89.60
35	1.00	0.500	32.90	14.74	85.26
45	1.50	0.355	43.82	19.63	80.37
60	2.00	0.250	58.87	26.37	73.63
80	2.50	0.180	89.25	39.98	60.02
120	3.00	0.125	173.93	77.91	22.09
170	3.50	0.090	218.34	97.80	2.20
200	3.75	0.075	219.90	98.50	1.50
230	4.00	0.063	221.71	99.31	0.69
PAN			223.25	100.00	0.00

PHI(5): -0.64      PHI(16): 1.13      PHI(25): 1.90  
PHI(50): 2.63      PHI(75): 2.96      PHI(84): 3.15  
PHI(95): 3.43

SIEVE LOSS(g): 0.00      SILT/CLAY: 1.50%  
SKEWNESS: -1.221      KURTOSIS: 1.568

## GRAPHIC METHOD

MEAN (PHI): 1.94      SORTING: 1.01  
MEAN (mm): 0.26      MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.20      SORTING: 1.25  
MEAN (mm): 0.22

DATA FILE NAME: VC99-26#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 5/20/1999

SAMPLE NO.: VC99 26#3

SAMPLE ELEV. (FT. NGVD): -44.0

SAMPLE DEPTH (FT.): 8.6

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.00

SAMPLE WEIGHT AFTER WASH (GRAMS): 98.66

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	1.41	1.41	98.59
5	-2.00	4.000	3.17	3.17	96.83
7	-1.50	2.800	4.10	4.10	95.90
10	-1.00	2.000	6.18	6.18	93.82
14	-0.50	1.400	12.18	12.18	87.82
18	0.00	1.000	19.87	19.87	80.13
25	0.50	0.710	33.36	33.36	66.64
35	1.00	0.500	53.89	53.89	46.11
45	1.50	0.355	66.42	66.42	33.58
60	2.00	0.250	79.06	79.06	20.94
80	2.50	0.180	86.15	86.15	13.85
120	3.00	0.125	94.32	94.32	5.68
170	3.50	0.090	98.33	98.33	1.67
200	3.75	0.075	98.59	98.59	1.41
230	4.00	0.063	99.27	99.27	0.73
PAN			99.97	99.97	0.03

PHI (5): -1.28

PHI (16): -0.25

PHI (25): 0.19

PHI (50): 0.91

PHI (75): 1.84

PHI (84): 2.35

PHI (95): 3.08

SIEVE LOSS (g): 0.03

SILT/CLAY: 1.41%

SKEWNESS: -0.004

KURTOSIS: 1.086

## GRAPHIC METHOD

MEAN (PHI): 0.96

SORTING: 1.30

MEAN (mm): 0.51

MEDIAN (mm): 0.53

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 0.92

SORTING: 1.34

MEAN (mm): 0.53

DATA FILE NAME: VC99-26#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/21/99

SAMPLE NO.: VC99 26#4

SAMPLE ELEV. (FT. NGVD): -47.8

SAMPLE DEPTH (FT.): 12.4

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 93.28

SAMPLE WEIGHT AFTER WASH (GRAMS): 91.68

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.05	0.05	99.95
7	-1.50	2.800	0.25	0.27	99.73
10	-1.00	2.000	0.33	0.35	99.65
14	-0.50	1.400	0.63	0.68	99.32
18	0.00	1.000	1.59	1.70	98.30
25	0.50	0.710	2.38	2.55	97.45
35	1.00	0.500	3.54	3.80	96.20
45	1.50	0.355	6.11	6.55	93.45
60	2.00	0.250	14.45	15.49	84.51
80	2.50	0.180	50.69	54.34	45.66
120	3.00	0.125	89.19	95.62	4.38
170	3.50	0.090	91.43	98.02	1.98
200	3.75	0.075	91.47	98.06	1.94
230	4.00	0.063	92.28	98.93	1.07
PAN			93.24	99.96	0.04

PHI(5): 1.22

PHI(16): 2.01

PHI(25): 2.12

PHI(50): 2.44

PHI(75): 2.75

PHI(84): 2.86

PHI(95): 2.99

SIEVE LOSS(g): 0.04

SILT/CLAY: 1.94%

SKEWNESS: -0.794

KURTOSIS: 1.158

## GRAPHIC METHOD

MEAN (PHI): 2.30

SORTING: 0.43

MEAN (mm): 0.20

MEDIAN (mm): 0.18

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

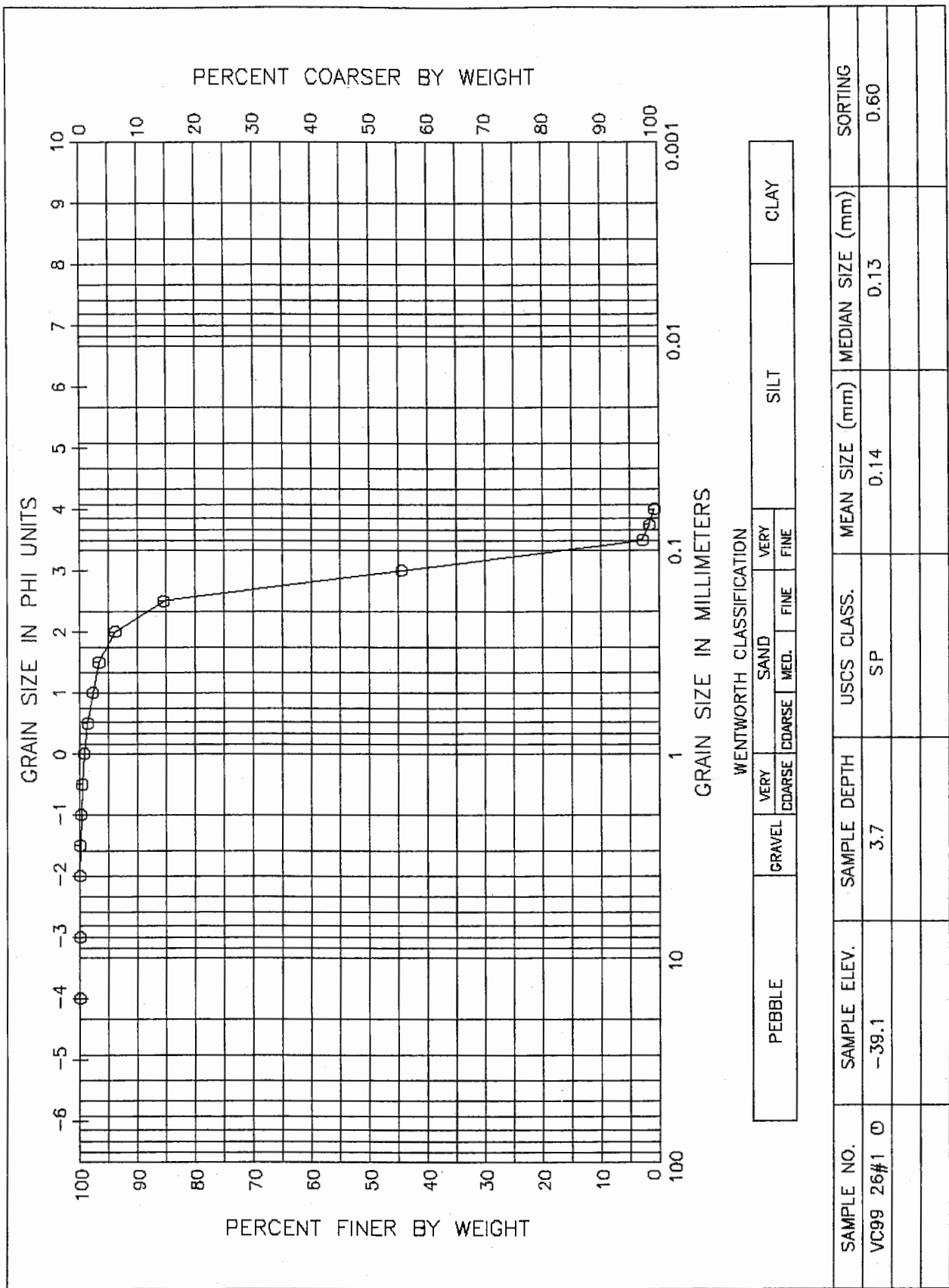
## MOMENT METHOD

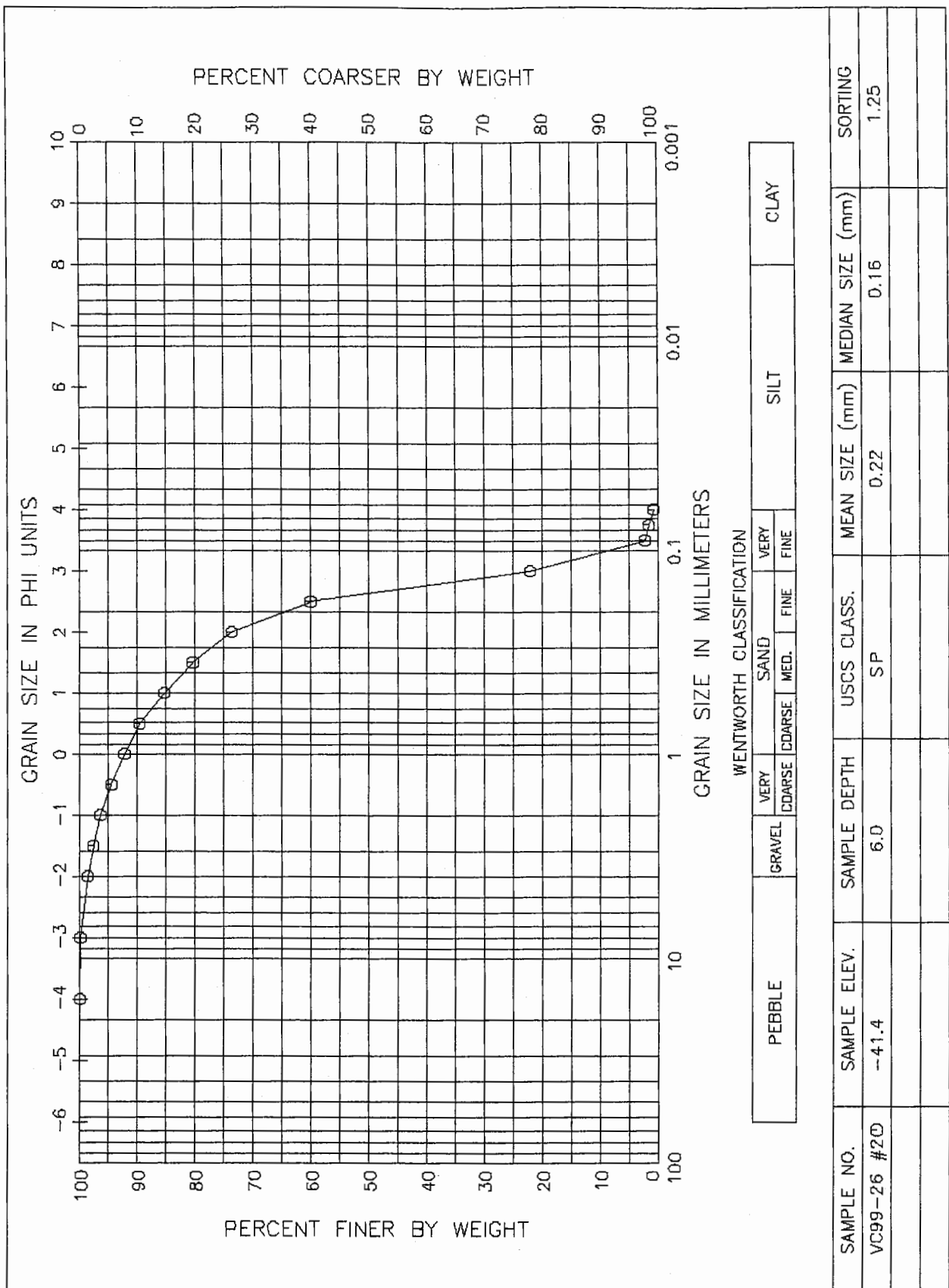
MEAN (PHI): 2.34

SORTING: 0.64

MEAN (mm): 0.20

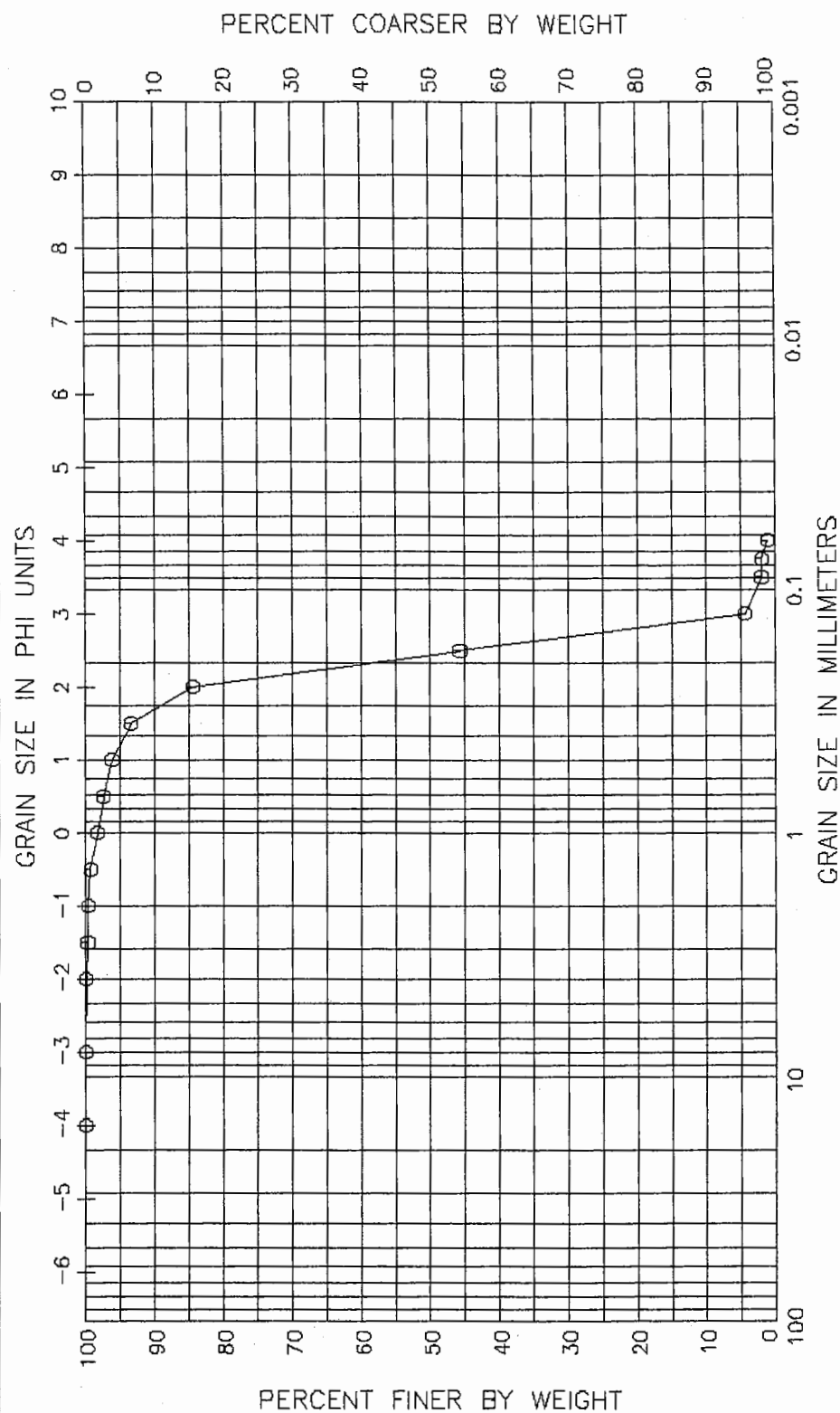
DATA FILE NAME: VC99-26#4.TAB





GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH





WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND				SILT		CLAY
		VERY COARSE	COARSE	MED.	FINE	VERY FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 26#4 ①	-47.8	12.4	SP	0.20	0.18	0.64

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH