

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 85#1  
SAMPLE ELEV. (FT. NGVD): -35.8  
SAMPLE DEPTH (FT.): 1.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 186.45  
SAMPLE WEIGHT AFTER WASH (GRAMS): 184.30

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	0.21	0.11	99.89
7	-1.50	2.800	0.37	0.20	99.80
10	-1.00	2.000	0.52	0.28	99.72
14	-0.50	1.400	0.73	0.39	99.61
18	0.00	1.000	1.06	0.57	99.43
25	0.50	0.710	1.34	0.72	99.28
35	1.00	0.500	1.95	1.05	98.95
45	1.50	0.355	2.81	1.51	98.49
60	2.00	0.250	5.89	3.16	96.84
80	2.50	0.180	23.72	12.72	87.28
120	3.00	0.125	129.77	69.60	30.40
170	3.50	0.090	182.91	98.10	1.90
200	3.75	0.075	184.00	98.69	1.31
230	4.00	0.063	185.21	99.34	0.66
PAN			186.41	99.98	0.02

PHI(5): 2.10                      PHI(16): 2.53                      PHI(25): 2.61  
PHI(50): 2.83                      PHI(75): 3.09                      PHI(84): 3.25  
PHI(95): 3.45

SIEVE LOSS(g): 0.04                      SILT/CLAY: 1.31%  
SKEWNESS: -0.157                      KURTOSIS: 1.136

## GRAPHIC METHOD

MEAN (PHI): 2.83                      SORTING: 0.36  
MEAN (mm): 0.14                      MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.80                      SORTING: 0.50  
MEAN (mm): 0.14

DATA FILE NAME: VC99-85#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 6/14/99

SAMPLE NO.: VC99 85#2

SAMPLE ELEV. (FT. NGVD): -37.2

SAMPLE DEPTH (FT.): 2.9

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 169.02

SAMPLE WEIGHT AFTER WASH (GRAMS): 167.00

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	1.66	0.98	99.02
5	-2.00	4.000	3.35	1.98	98.02
7	-1.50	2.800	4.27	2.53	97.47
10	-1.00	2.000	5.43	3.21	96.79
14	-0.50	1.400	7.63	4.51	95.49
18	0.00	1.000	10.27	6.08	93.92
25	0.50	0.710	15.33	9.07	90.93
35	1.00	0.500	24.22	14.33	85.67
45	1.50	0.355	31.55	18.67	81.33
60	2.00	0.250	41.02	24.27	75.73
80	2.50	0.180	58.41	34.56	65.44
120	3.00	0.125	119.26	70.56	29.44
170	3.50	0.090	165.92	98.17	1.83
200	3.75	0.075	166.75	98.66	1.34
230	4.00	0.063	167.86	99.31	0.69
PAN			168.99	99.98	0.02

PHI (5): -0.34

PHI (16): 1.19

PHI (25): 2.04

PHI (50): 2.71

PHI (75): 3.08

PHI (84): 3.24

PHI (95): 3.44

SIEVE LOSS (g): 0.03

SILT/CLAY: 1.34%

SKEWNESS: -1.136

KURTOSIS: 1.485

## GRAPHIC METHOD

MEAN (PHI): 2.05

SORTING: 1.03

MEAN (mm): 0.24

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.29

SORTING: 1.28

MEAN (mm): 0.21

DATA FILE NAME: VC99-85#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 85#3  
SAMPLE ELEV. (FT. NGVD): -42.3  
SAMPLE DEPTH (FT.): 8.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 177.72  
SAMPLE WEIGHT AFTER WASH (GRAMS): 173.91

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	0.09	0.05	99.95
10	-1.00	2.000	0.27	0.15	99.85
14	-0.50	1.400	0.49	0.28	99.72
18	0.00	1.000	0.76	0.43	99.57
25	0.50	0.710	1.19	0.67	99.33
35	1.00	0.500	1.82	1.02	98.98
45	1.50	0.355	2.66	1.50	98.50
60	2.00	0.250	5.31	2.99	97.01
80	2.50	0.180	17.70	9.96	90.04
120	3.00	0.125	114.75	64.57	35.43
170	3.50	0.090	171.10	96.28	3.72
200	3.75	0.075	173.09	97.39	2.61
230	4.00	0.063	175.49	98.75	1.25
PAN			177.69	99.98	0.02

PHI(5): 2.14                      PHI(16): 2.56                      PHI(25): 2.64  
PHI(50): 2.87                      PHI(75): 3.16                      PHI(84): 3.31  
PHI(95): 3.48

SIEVE LOSS(g): 0.03                      SILT/CLAY: 2.61%  
SKEWNESS: -0.145                      KURTOSIS: 1.039

## GRAPHIC METHOD

MEAN (PHI): 2.87                      SORTING: 0.38  
MEAN (mm): 0.14                      MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.85                      SORTING: 0.47  
MEAN (mm): 0.14

DATA FILE NAME: VC99-85#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 85#4  
SAMPLE ELEV. (FT. NGVD): -46.6  
SAMPLE DEPTH (FT.): 12.3  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 199.72  
SAMPLE WEIGHT AFTER WASH (GRAMS): 196.39

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	0.42	0.21	99.79
7	-1.50	2.800	1.08	0.54	99.46
10	-1.00	2.000	2.02	1.01	98.99
14	-0.50	1.400	3.17	1.59	98.41
18	0.00	1.000	4.57	2.29	97.71
25	0.50	0.710	7.11	3.56	96.44
35	1.00	0.500	10.77	5.39	94.61
45	1.50	0.355	14.87	7.45	92.55
60	2.00	0.250	23.87	11.95	88.05
80	2.50	0.180	52.40	26.24	73.76
120	3.00	0.125	160.96	80.59	19.41
170	3.50	0.090	195.33	97.80	2.20
200	3.75	0.075	196.07	98.17	1.83
230	4.00	0.063	197.99	99.13	0.87
PAN			199.72	100.00	0.00

PHI(5): 0.89 PHI(16): 2.14 PHI(25): 2.46  
PHI(50): 2.72 PHI(75): 2.95 PHI(84): 3.10  
PHI(95): 3.42

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.83%  
SKEWNESS: -1.176 KURTOSIS: 2.105

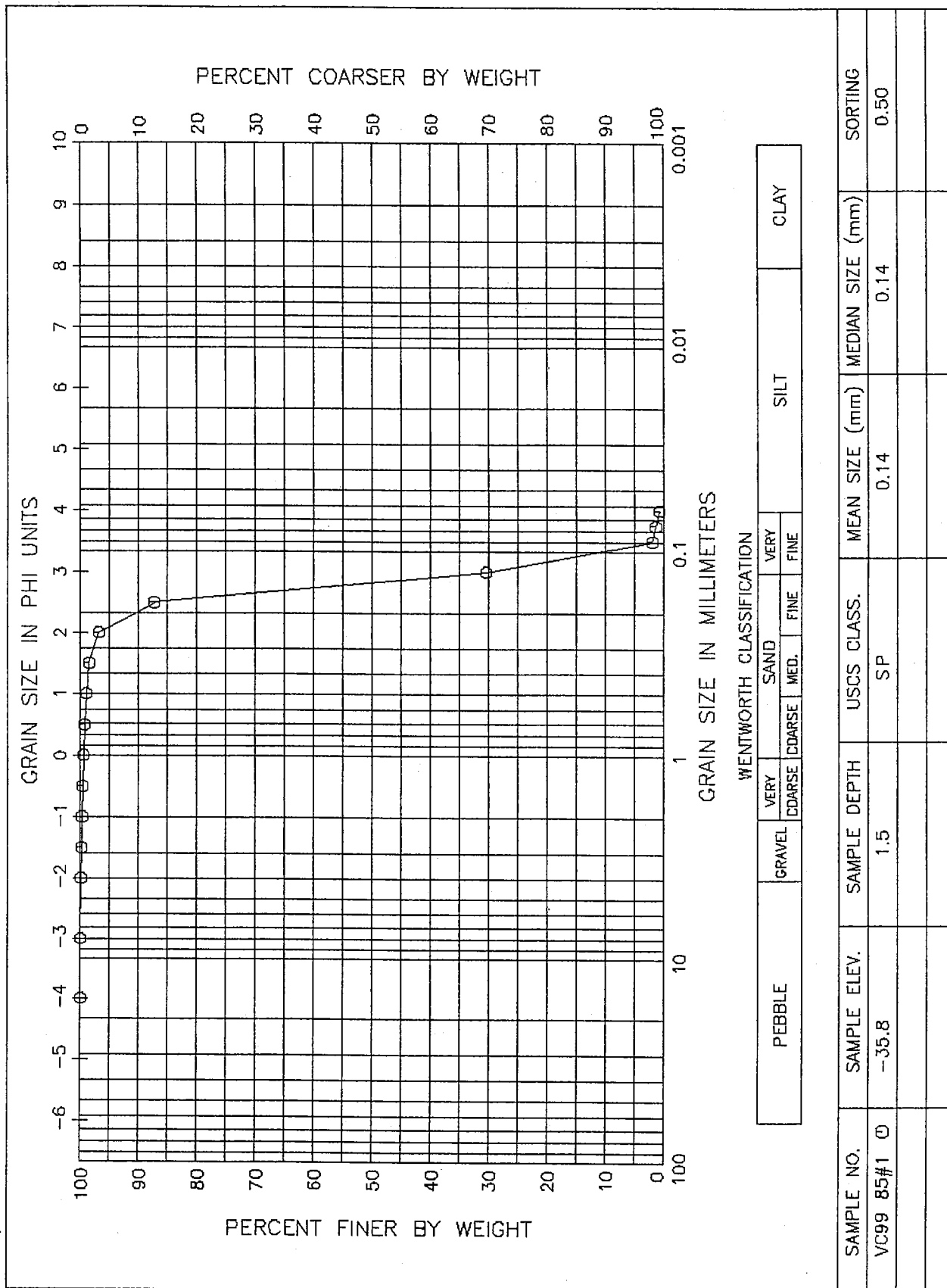
## GRAPHIC METHOD

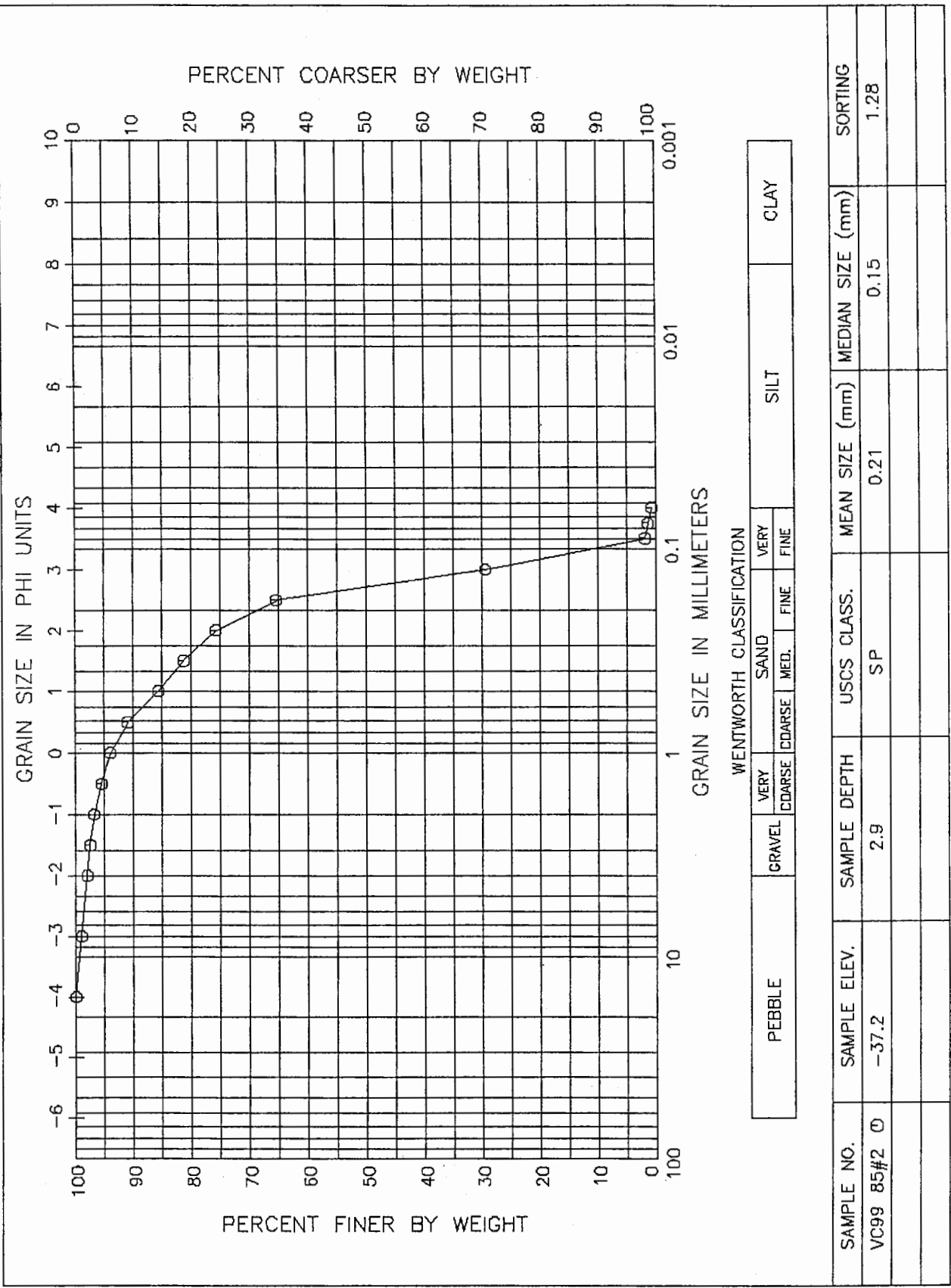
MEAN (PHI): 2.45 SORTING: 0.48  
MEAN (mm): 0.18 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

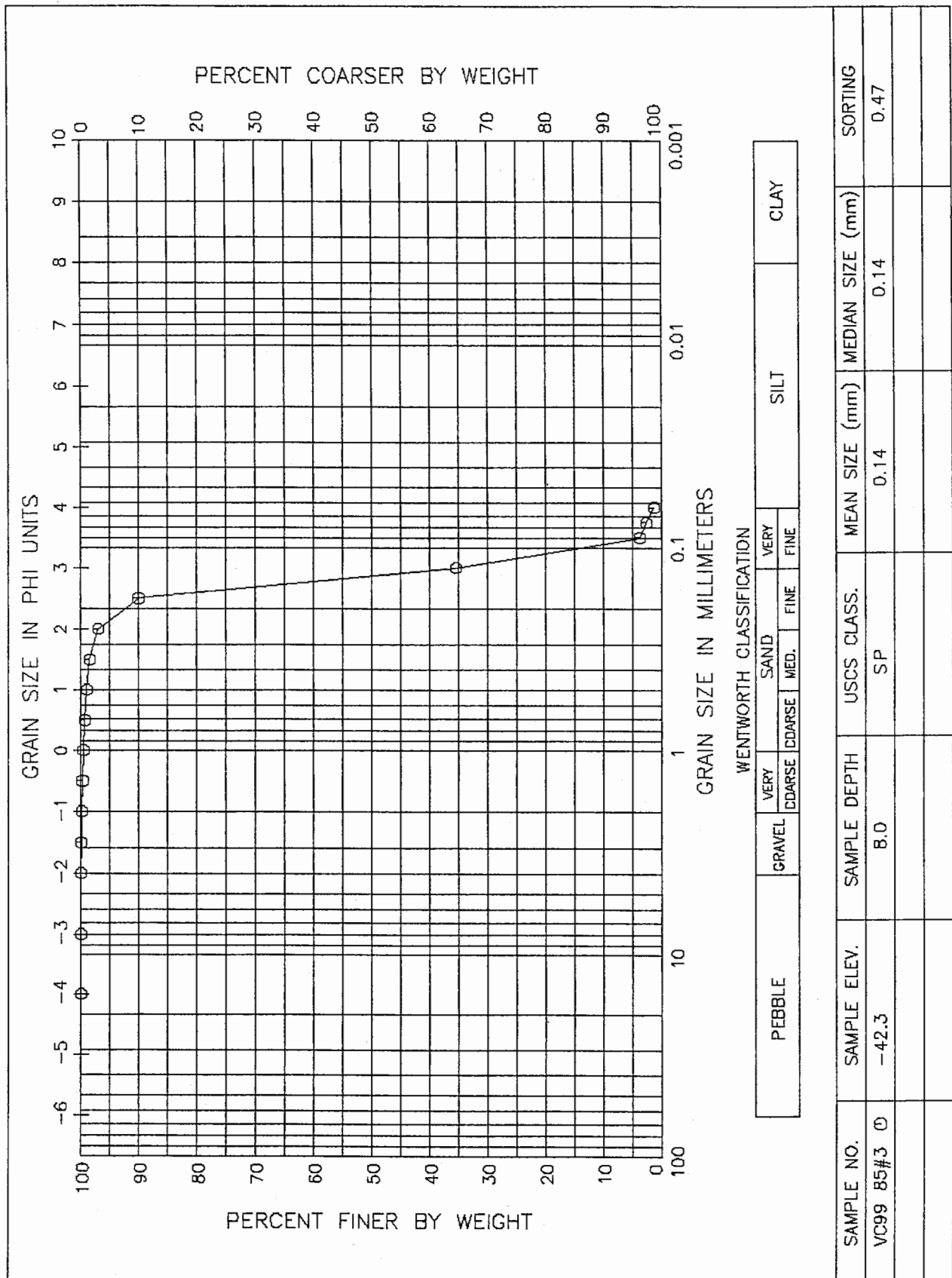
MEAN (PHI): 2.55 SORTING: 0.80  
MEAN (mm): 0.17

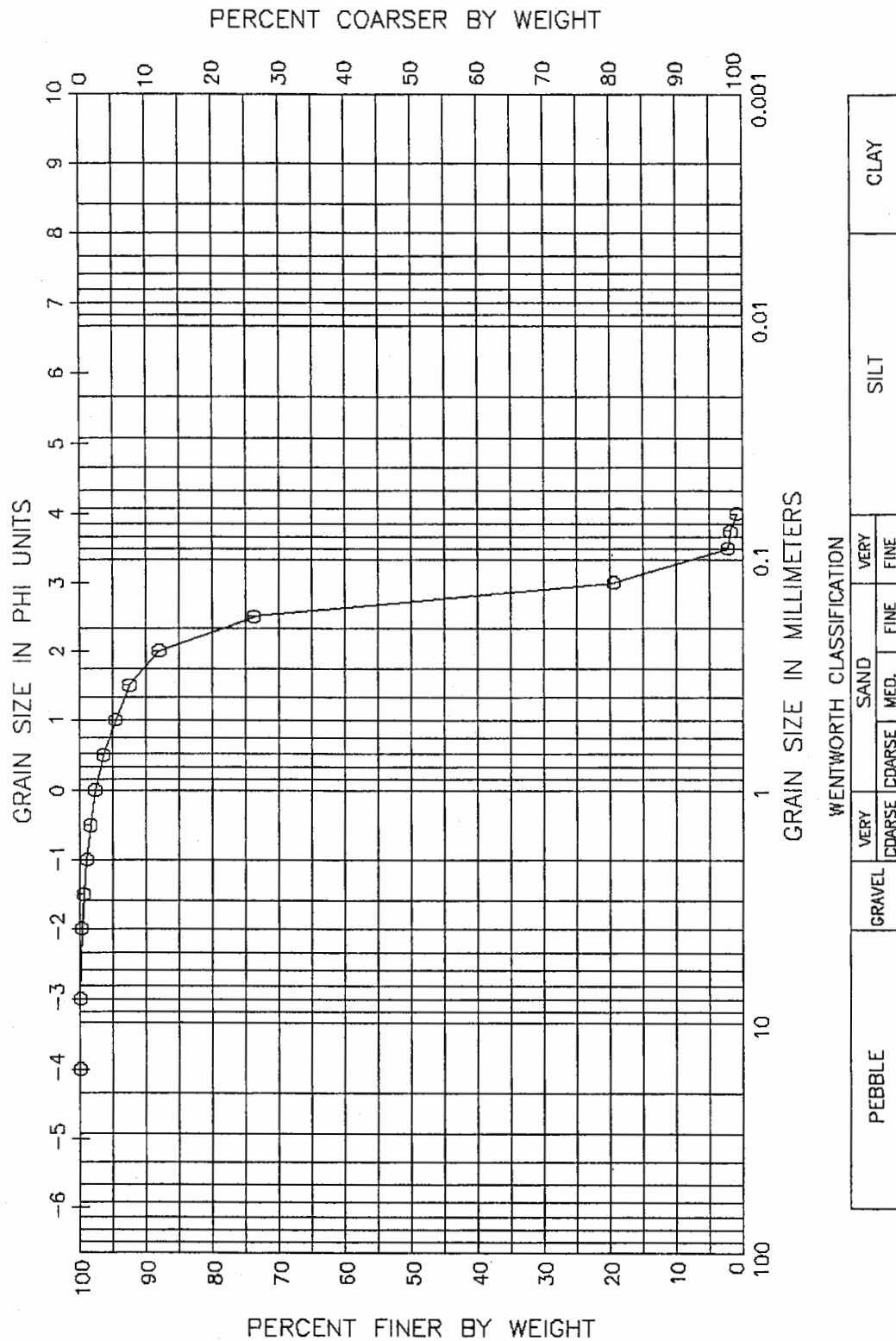
DATA FILE NAME: VC99-85#4.TAB





GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH





SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 85#4 0	-45.5	12.3	SP	0.17	0.15	0.80

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH