

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/10/99

SAMPLE NO.: VC99 84#1  
SAMPLE ELEV. (FT. NGVD): -50.2  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 179.99  
SAMPLE WEIGHT AFTER WASH (GRAMS): 176.14

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	0.78	0.43	99.57
7	-1.50	2.800	1.06	0.59	99.41
10	-1.00	2.000	1.72	0.96	99.04
14	-0.50	1.400	2.41	1.34	98.66
18	0.00	1.000	3.32	1.84	98.16
25	0.50	0.710	5.09	2.83	97.17
35	1.00	0.500	7.60	4.22	95.78
45	1.50	0.355	9.96	5.53	94.47
60	2.00	0.250	13.09	7.27	92.73
80	2.50	0.180	20.61	11.45	88.55
120	3.00	0.125	107.18	59.55	40.45
170	3.50	0.090	174.55	96.98	3.02
200	3.75	0.075	175.78	97.66	2.34
230	4.00	0.063	177.90	98.84	1.16
PAN			179.99	100.00	0.00

PHI(5): 1.30 PHI(16): 2.55 PHI(25): 2.64  
PHI(50): 2.90 PHI(75): 3.21 PHI(84): 3.33  
PHI(95): 3.47

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.34%  
SKEWNESS: -1.323 KURTOSIS: 1.578

GRAPHIC METHOD

MEAN (PHI): 2.71 SORTING: 0.39  
MEAN (mm): 0.15 MEDIAN (mm): 0.13  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.77 SORTING: 0.77  
MEAN (mm): 0.15

DATA FILE NAME: VC99-84#1.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/10/99

SAMPLE NO.: VC99 84#2  
SAMPLE ELEV. (FT. NGVD): -51.8  
SAMPLE DEPTH (FT.): 3.6  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 197.44  
SAMPLE WEIGHT AFTER WASH (GRAMS): 190.17

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	3.79	1.92	98.08
5	-2.00	4.000	8.33	4.22	95.78
7	-1.50	2.800	9.68	4.90	95.10
10	-1.00	2.000	11.80	5.98	94.02
14	-0.50	1.400	25.38	12.85	87.15
18	0.00	1.000	27.90	14.13	85.87
25	0.50	0.710	35.19	17.82	82.18
35	1.00	0.500	46.01	23.30	76.70
45	1.50	0.355	55.13	27.92	72.08
60	2.00	0.250	65.13	32.99	67.01
80	2.50	0.180	79.24	40.13	59.87
120	3.00	0.125	147.71	74.81	25.19
170	3.50	0.090	189.04	95.75	4.25
200	3.75	0.075	189.81	96.14	3.86
230	4.00	0.063	196.61	99.58	0.42
PAN			197.43	99.99	0.01

PHI(5): -1.45      PHI(16): 0.25      PHI(25): 1.18  
PHI(50): 2.64      PHI(75): 3.00      PHI(84): 3.22  
PHI(95): 3.48

SIEVE LOSS(g): 0.01      SILT/CLAY: 3.86%  
SKEWNESS: -1.098      KURTOSIS: 1.111

GRAPHIC METHOD

MEAN (PHI): 1.63      SORTING: 1.48  
MEAN (mm): 0.32      MEDIAN (mm): 0.16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.94      SORTING: 1.65  
MEAN (mm): 0.26

DATA FILE NAME: VC99-84#2.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-20-99

SAMPLE NO.: VC99 84#3

SAMPLE ELEV. (FT. NGVD): -53.0

SAMPLE DEPTH (FT.): 4.8

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 159.90

SAMPLE WEIGHT AFTER WASH (GRAMS): 158.80

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	19.69	12.31	87.69
5	-2.00	4.000	37.02	23.15	76.85
7	-1.50	2.800	41.71	26.09	73.91
10	-1.00	2.000	46.91	29.34	70.66
14	-0.50	1.400	55.35	34.62	65.38
18	0.00	1.000	64.28	40.20	59.80
25	0.50	0.710	76.29	47.71	52.29
35	1.00	0.500	87.87	54.95	45.05
45	1.50	0.355	93.58	58.52	41.48
60	2.00	0.250	96.97	60.64	39.36
80	2.50	0.180	102.52	64.12	35.88
120	3.00	0.125	134.36	84.03	15.97
170	3.50	0.090	152.78	95.55	4.45
200	3.75	0.075	158.57	99.17	0.83
230	4.00	0.063	159.28	99.61	0.39
PAN			159.89	99.99	0.01

PHI(5): -3.59

PHI(16): -2.66

PHI(25): -1.68

PHI(50): 0.66

PHI(75): 2.77

PHI(84): 3.00

PHI(95): 3.48

SIEVE LOSS(g): 0.01

SILT/CLAY: 0.83%

SKEWNESS: -0.253

KURTOSIS: 0.650

## GRAPHIC METHOD

MEAN (PHI): 0.18

SORTING: 2.83

MEAN (mm): 0.89

MEDIAN (mm): 0.63

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 0.46

SORTING: 2.40

MEAN (mm): 0.73

DATA FILE NAME: VC99-84#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/10/99

SAMPLE NO.: VC99 84#4  
SAMPLE ELEV. (FT. NGVD): -54.2  
SAMPLE DEPTH (FT.): 6.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 214.44  
SAMPLE WEIGHT AFTER WASH (GRAMS): 201.89

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	0.14	0.07	99.93
7	-1.50	2.800	0.49	0.23	99.77
10	-1.00	2.000	1.00	0.47	99.53
14	-0.50	1.400	1.92	0.90	99.10
18	0.00	1.000	3.53	1.65	98.35
25	0.50	0.710	6.33	2.95	97.05
35	1.00	0.500	13.30	6.20	93.80
45	1.50	0.355	23.70	11.05	88.95
60	2.00	0.250	34.74	16.20	83.80
80	2.50	0.180	57.89	27.00	73.00
120	3.00	0.125	164.64	76.78	23.22
170	3.50	0.090	200.37	93.44	6.56
200	3.75	0.075	201.78	94.10	5.90
230	4.00	0.063	208.14	97.06	2.94
PAN			214.44	100.00	0.00

PHI(5): 0.82      PHI(16): 1.98      PHI(25): 2.41  
PHI(50): 2.73      PHI(75): 2.98      PHI(84): 3.22  
PHI(95): 3.83

SIEVE LOSS(g): 0.00      SILT/CLAY: 5.90%  
SKEWNESS: -0.664      KURTOSIS: 2.148

## GRAPHIC METHOD

MEAN (PHI): 2.51      SORTING: 0.62  
MEAN (mm): 0.18      MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.53      SORTING: 0.82  
MEAN (mm): 0.17

DATA FILE NAME: VC99-84#4.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/10/99

SAMPLE NO.: VC99 84#5

SAMPLE ELEV. (FT. NGVD): -55.8

SAMPLE DEPTH (FT.): 7.6

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 186.21

SAMPLE WEIGHT AFTER WASH (GRAMS): 182.88

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	13.00	6.98	93.02
5	-2.00	4.000	24.14	12.96	87.04
7	-1.50	2.800	30.63	16.45	83.55
10	-1.00	2.000	38.95	20.92	79.08
14	-0.50	1.400	82.33	44.21	55.79
18	0.00	1.000	90.99	48.86	51.14
25	0.50	0.710	111.48	59.87	40.13
35	1.00	0.500	129.51	69.55	30.45
45	1.50	0.355	139.31	74.81	25.19
60	2.00	0.250	145.34	78.05	21.95
80	2.50	0.180	151.16	81.18	18.82
120	3.00	0.125	175.47	94.23	5.77
170	3.50	0.090	182.63	98.08	1.92
200	3.75	0.075	182.82	98.18	1.82
230	4.00	0.063	184.52	99.09	0.91
PAN			186.21	100.00	0.00

PHI(5): -3.28

PHI(16): -1.56

PHI(25): -0.91

PHI(50): 0.05

PHI(75): 1.53

PHI(84): 2.61

PHI(95): 3.10

SIEVE LOSS(g): 0.00

SILT/CLAY: 1.82%

SKEWNESS: -0.069

KURTOSIS: 1.072

## GRAPHIC METHOD

MEAN (PHI): 0.18

SORTING: 2.09

MEAN (mm): 0.88

MEDIAN (mm): 0.96

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 0.12

SORTING: 1.87

MEAN (mm): 0.92

DATA FILE NAME: VC99-84#5.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/10/99

SAMPLE NO.: VC99 84#6

SAMPLE ELEV. (FT. NGVD): -61.2

SAMPLE DEPTH (FT.): 13.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 135.93

SAMPLE WEIGHT AFTER WASH (GRAMS): 130.60

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	1.33	0.98	99.02
5	-2.00	4.000	2.11	1.55	98.45
7	-1.50	2.800	2.42	1.78	98.22
10	-1.00	2.000	2.86	2.10	97.90
14	-0.50	1.400	3.64	2.68	97.32
18	0.00	1.000	4.48	3.30	96.70
25	0.50	0.710	6.12	4.50	95.50
35	1.00	0.500	9.47	6.97	93.03
45	1.50	0.355	16.30	11.99	88.01
60	2.00	0.250	31.19	22.95	77.05
80	2.50	0.180	68.62	50.48	49.52
120	3.00	0.125	120.43	88.60	11.40
170	3.50	0.090	129.74	95.45	4.55
200	3.75	0.075	130.21	95.79	4.21
230	4.00	0.063	132.89	97.77	2.23
PAN			135.89	99.97	0.03

PHI (5): 0.60	PHI (16): 1.68	PHI (25): 2.04
PHI (50): 2.49	PHI (75): 2.82	PHI (84): 2.94
PHI (95): 3.47		

SIEVE LOSS (g): 0.04	SILT/CLAY: 4.21%
SKEWNESS: -0.727	KURTOSIS: 1.498

## GRAPHIC METHOD

MEAN (PHI): 2.24	SORTING: 0.63
MEAN (mm): 0.21	MEDIAN (mm): 0.18

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.24	SORTING: 1.02
MEAN (mm): 0.21	

DATA FILE NAME: VC99-84#6.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#84-7  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 10.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 112.48  
SAMPLE WEIGHT AFTER WASH (GRAMS): 111.45

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	4.95	4.40	95.60
7	-1.50	2.800	8.29	7.37	92.63
10	-1.00	2.000	12.74	11.33	88.67
14	-0.50	1.400	22.78	20.25	79.75
18	0.00	1.000	37.42	33.27	66.73
25	0.50	0.710	58.94	52.40	47.60
35	1.00	0.500	77.07	68.52	31.48
45	1.50	0.355	85.75	76.24	23.76
60	2.00	0.250	90.93	80.84	19.16
80	2.50	0.180	95.07	84.52	15.48
120	3.00	0.125	107.13	95.24	4.76
170	3.50	0.090	111.16	98.83	1.17
200	3.75	0.075	111.38	99.02	0.98
230	4.00	0.063	111.94	99.52	0.48
PAN			112.47	99.99	0.01

PHI (5): -1.90 PHI (16): -0.74 PHI (25): -0.32  
PHI (50): 0.44 PHI (75): 1.42 PHI (84): 2.43  
PHI (95): 2.99

SIEVE LOSS(g): 0.01 SILT/CLAY: 0.98%  
SKEWNESS: 0.068 KURTOSIS: 1.153

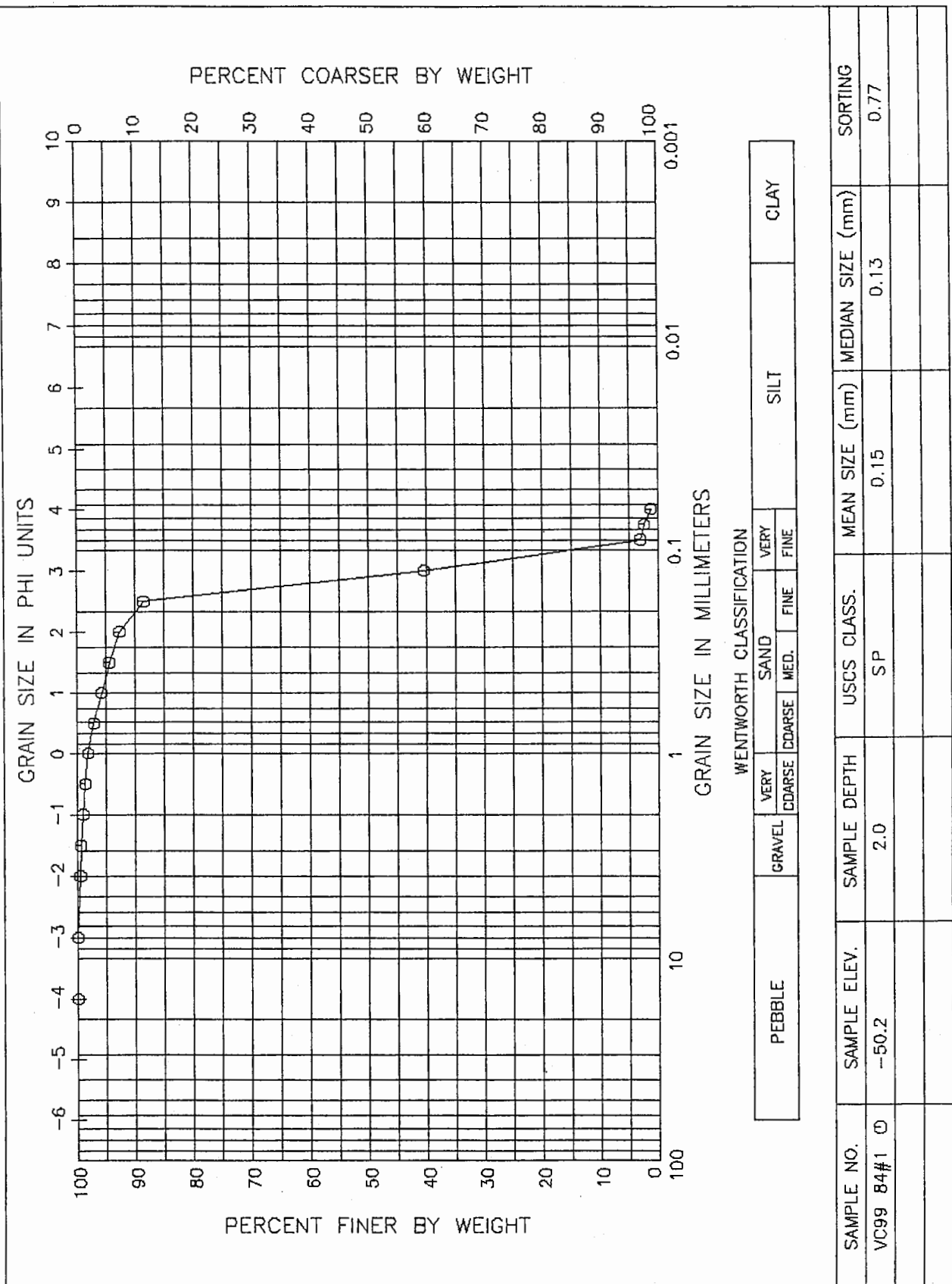
GRAPHIC METHOD

MEAN (PHI): 0.64 SORTING: 1.58  
MEAN (mm): 0.64 MEDIAN (mm): 0.74  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

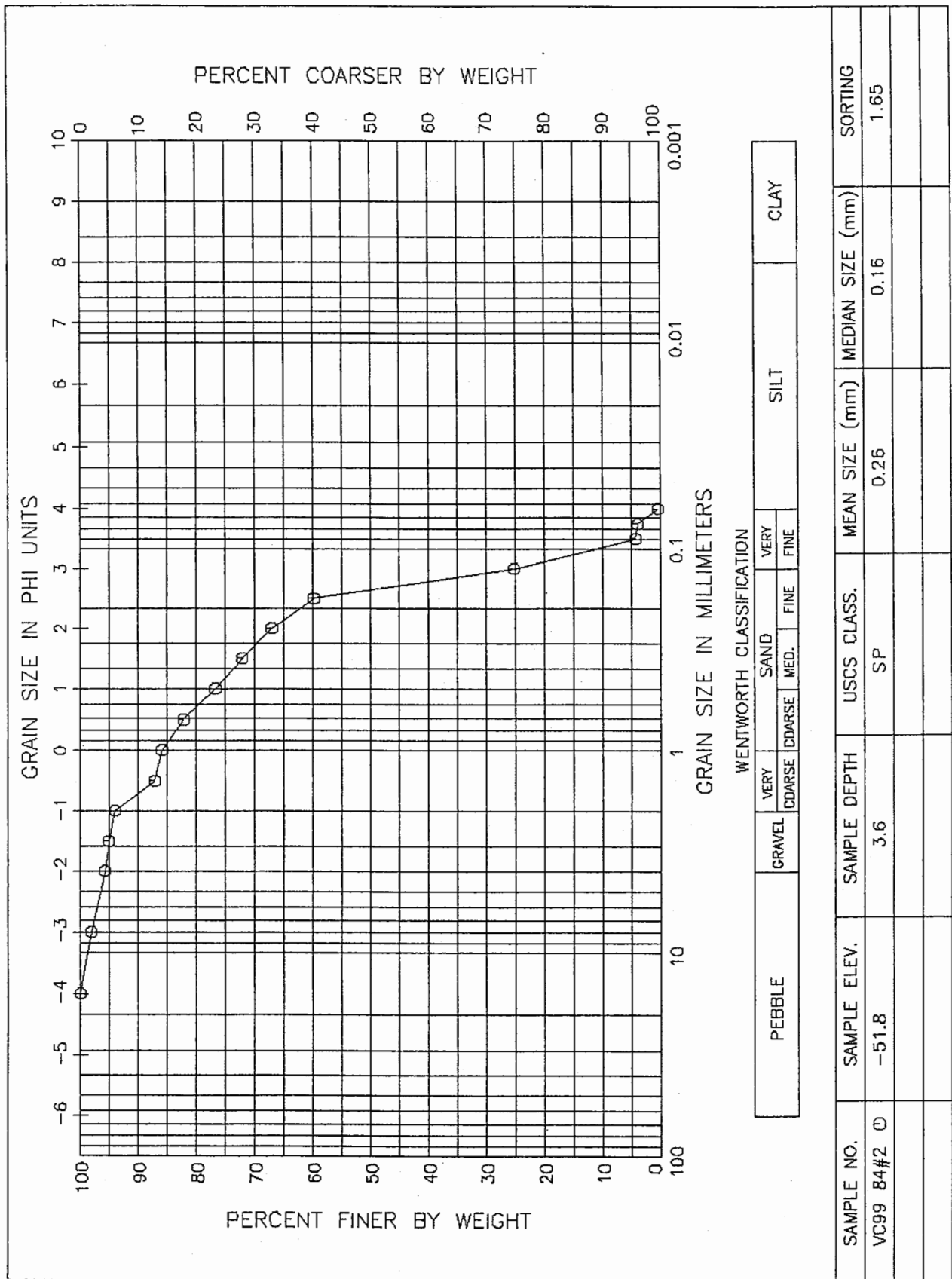
MOMENT METHOD

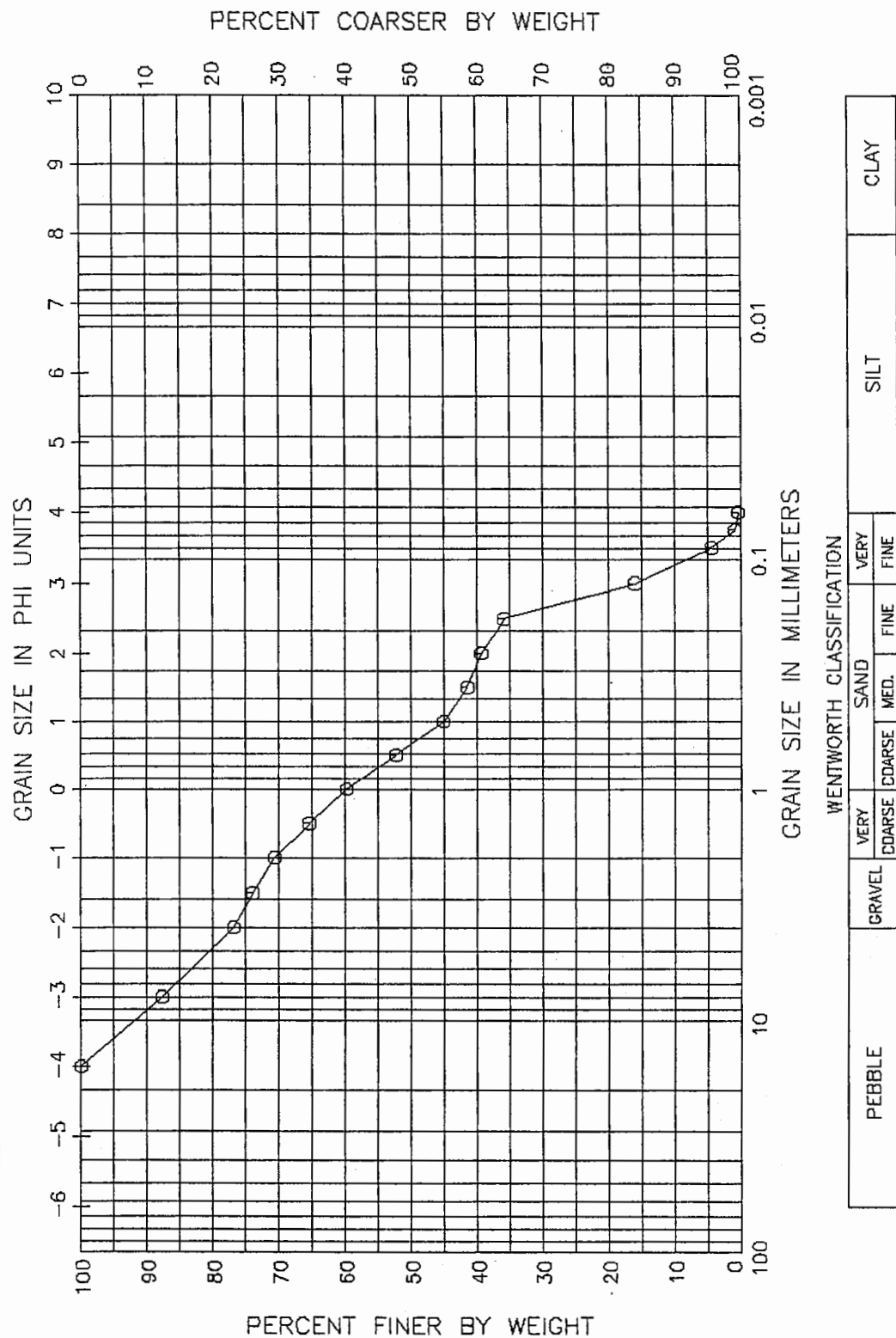
MEAN (PHI): 0.56 SORTING: 1.42  
MEAN (mm): 0.68

DATA FILE NAME: VC-99#84-7.TAB



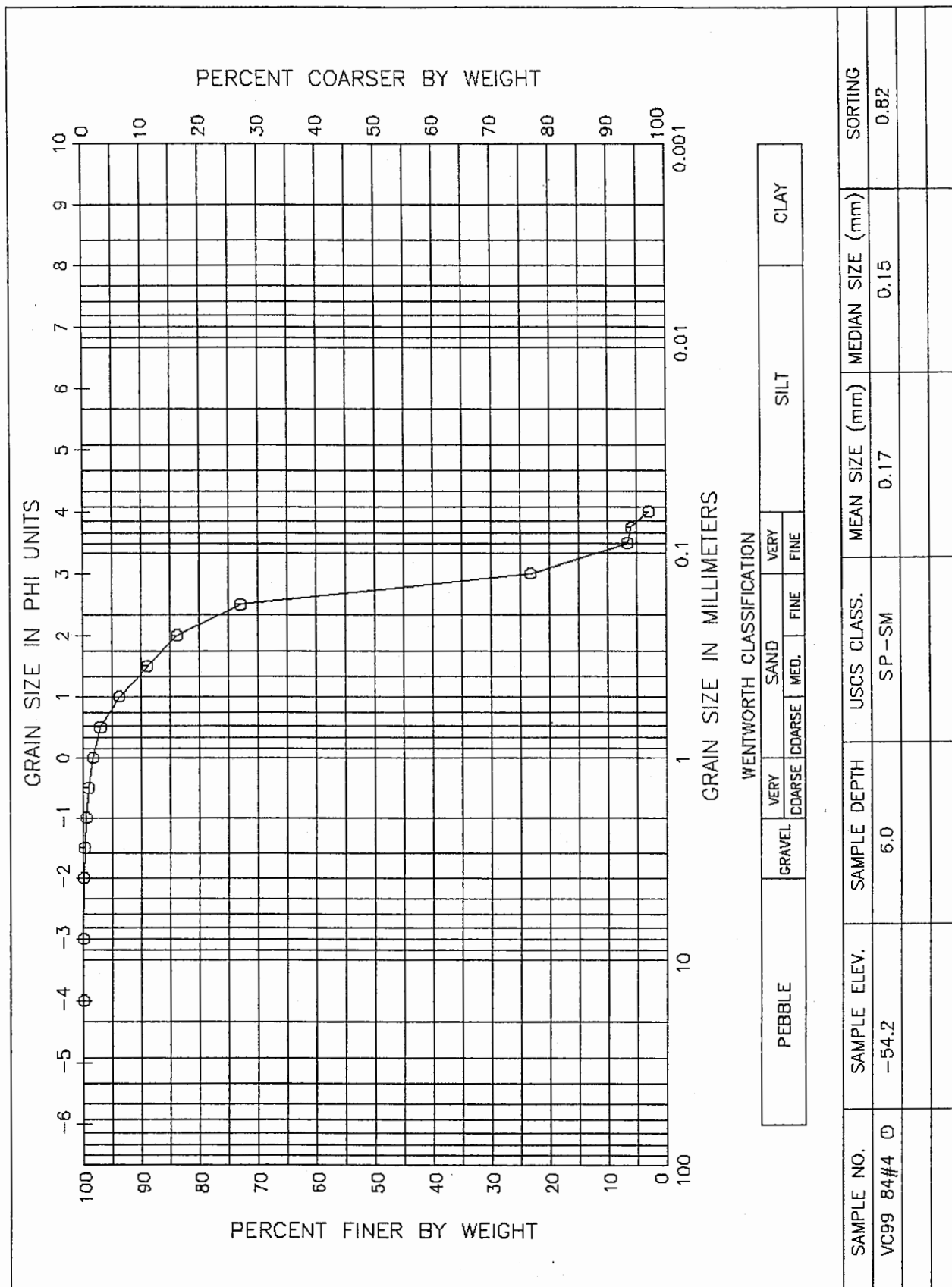




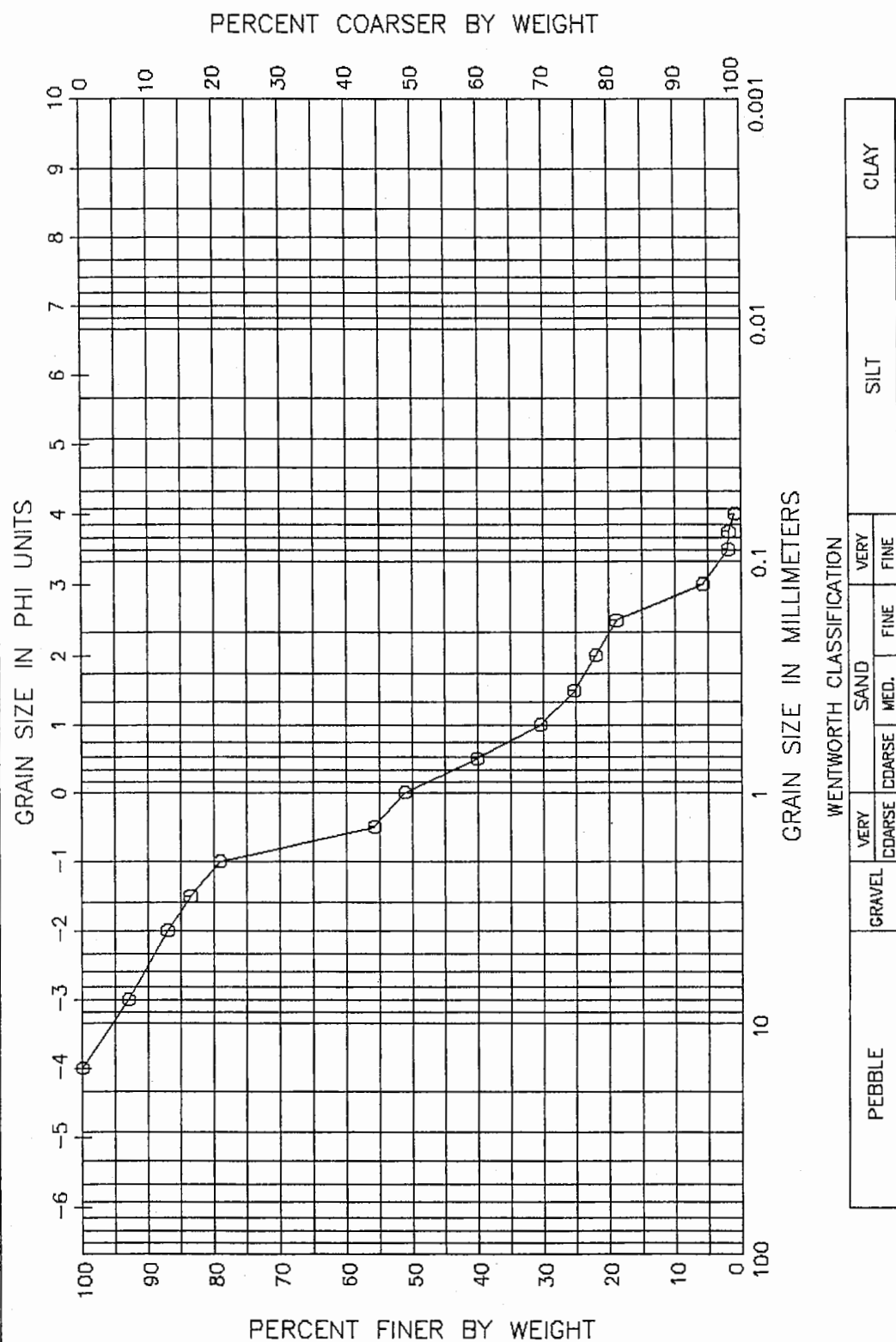


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 84#3 0	-53.0	4.8	SP	0.73	0.63	2.40

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

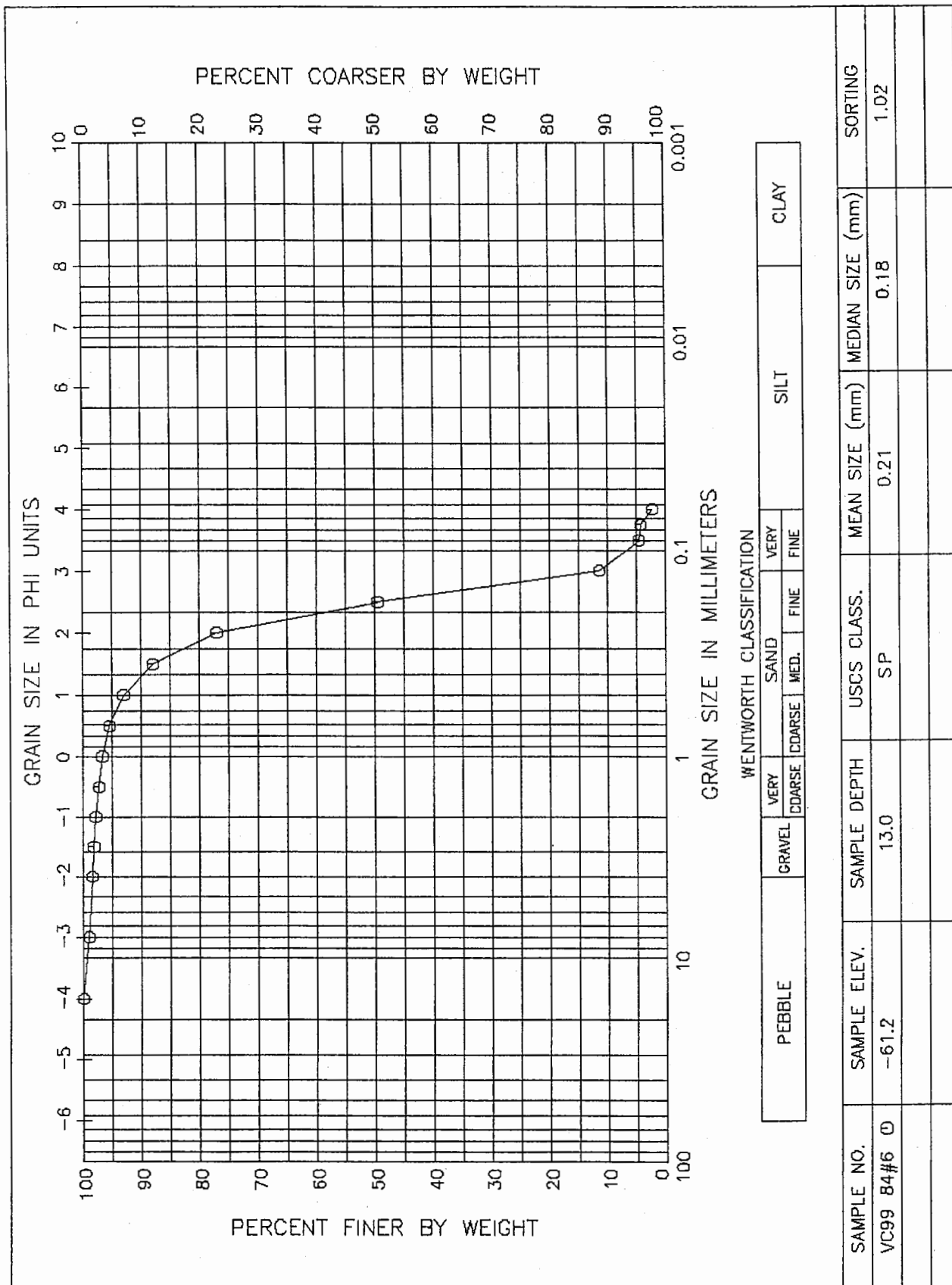


GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

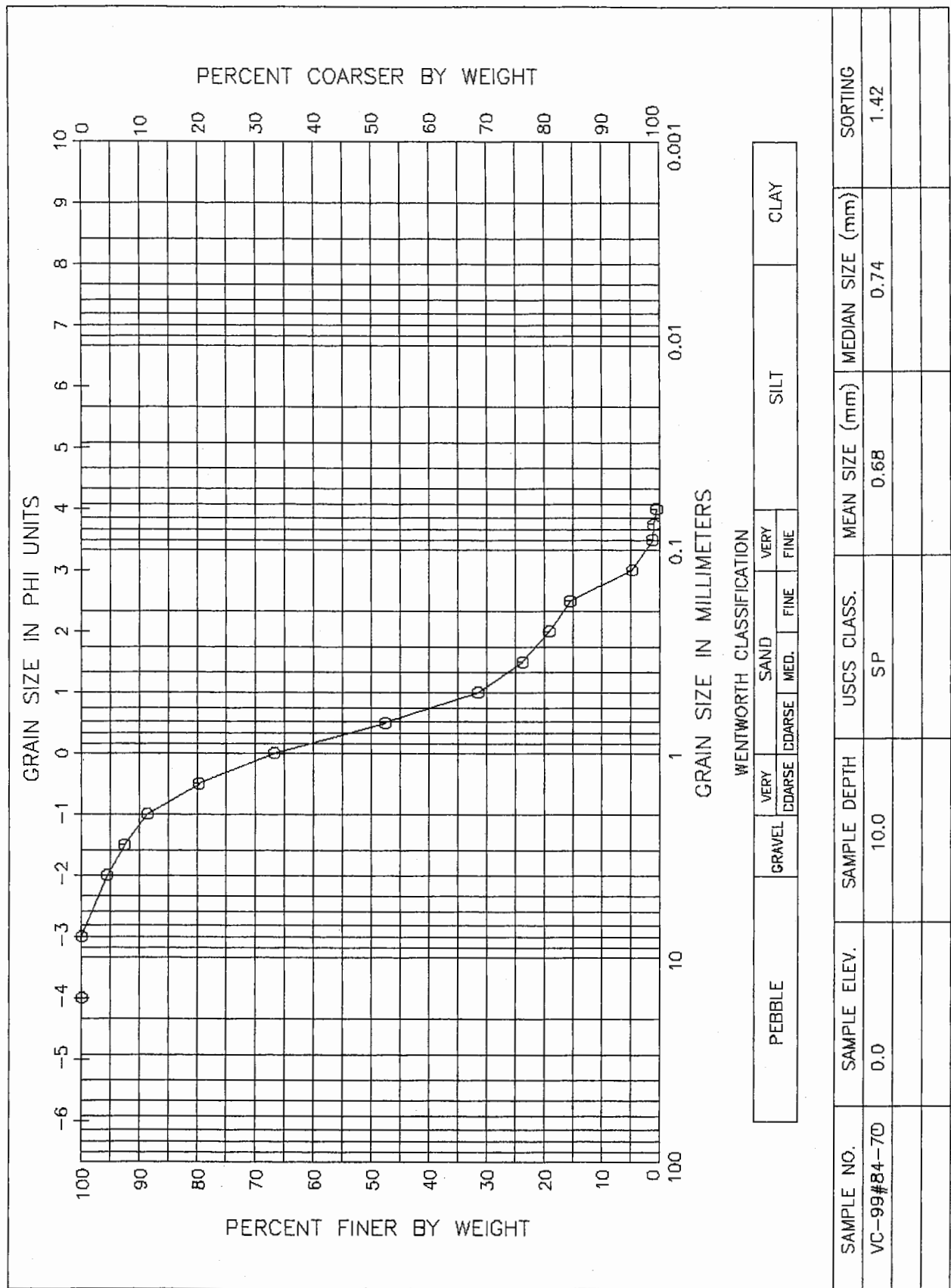


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 84#5 0	-55.8	7.6	SW	0.92	0.96	1.87

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH