

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

SAMPLE NO.: VC99 79#1
SAMPLE ELEV. (FT. NGVD): -55.3
SAMPLE DEPTH (FT.): 0.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 192.63
SAMPLE WEIGHT AFTER WASH (GRAMS): 190.69

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	10.97	5.69	94.31
5	-2.00	4.000	25.39	13.18	86.82
7	-1.50	2.800	35.85	18.61	81.39
10	-1.00	2.000	48.05	24.94	75.06
14	-0.50	1.400	75.89	39.40	60.60
18	0.00	1.000	88.71	46.05	53.95
25	0.50	0.710	111.48	57.87	42.13
35	1.00	0.500	126.08	65.45	34.55
45	1.50	0.355	132.47	68.77	31.23
60	2.00	0.250	137.24	71.25	28.75
80	2.50	0.180	143.62	74.56	25.44
120	3.00	0.125	165.96	86.15	13.85
170	3.50	0.090	189.99	98.63	1.37
200	3.75	0.075	190.52	98.90	1.10
230	4.00	0.063	191.60	99.47	0.53
PAN			192.63	100.00	0.00

PHI(5): -3.12 PHI(16): -1.74 PHI(25): -1.00
PHI(50): 0.17 PHI(75): 2.52 PHI(84): 2.91
PHI(95): 3.35

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.10%
SKEWNESS: -0.022 KURTOSIS: 0.755

GRAPHIC METHOD

MEAN (PHI): 0.31 SORTING: 2.32
MEAN (mm): 0.80 MEDIAN (mm): 0.89
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.32 SORTING: 2.02
MEAN (mm): 0.80

DATA FILE NAME: VC99-79#1.TAB

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

SAMPLE NO.: VC99 79#2
SAMPLE ELEV. (FT. NGVD): -56.0
SAMPLE DEPTH (FT.): 1.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 167.97
SAMPLE WEIGHT AFTER WASH (GRAMS): 165.78

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	4.62	2.75	97.25
5	-2.00	4.000	13.86	8.25	91.75
7	-1.50	2.800	19.71	11.73	88.27
10	-1.00	2.000	25.16	14.98	85.02
14	-0.50	1.400	38.66	23.02	76.98
18	0.00	1.000	46.58	27.73	72.27
25	0.50	0.710	60.15	35.81	64.19
35	1.00	0.500	72.72	43.29	56.71
45	1.50	0.355	78.68	46.84	53.16
60	2.00	0.250	83.20	49.53	50.47
80	2.50	0.180	91.78	54.64	45.36
120	3.00	0.125	131.35	78.20	21.80
170	3.50	0.090	164.49	97.93	2.07
200	3.75	0.075	165.54	98.55	1.45
230	4.00	0.063	166.82	99.32	0.68
PAN			167.97	100.00	0.00

PHI (5): -2.59 PHI (16): -0.94 PHI (25): -0.29
PHI (50): 2.05 PHI (75): 2.93 PHI (84): 3.15
PHI (95): 3.43

SIEVE LOSS (g): 0.00 SILT/CLAY: 1.45%
SKEWNESS: -0.798 KURTOSIS: 0.765

GRAPHIC METHOD

MEAN (PHI): 1.02 SORTING: 2.04
MEAN (mm): 0.49 MEDIAN (mm): 0.24
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.23 SORTING: 1.98
MEAN (mm): 0.43

DATA FILE NAME: VC99-79#2.TAB

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

SAMPLE NO.: VC99 79#3
SAMPLE ELEV. (FT. NGVD): -58.3
SAMPLE DEPTH (FT.): 3.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 175.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 173.33

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	2.34	1.33	98.67
5	-2.00	4.000	4.36	2.48	97.52
7	-1.50	2.800	6.29	3.58	96.42
10	-1.00	2.000	7.30	4.16	95.84
14	-0.50	1.400	19.33	11.01	88.99
18	0.00	1.000	24.34	13.87	86.13
25	0.50	0.710	38.03	21.67	78.33
35	1.00	0.500	55.74	31.76	68.24
45	1.50	0.355	68.61	39.09	60.91
60	2.00	0.250	78.77	44.88	55.12
80	2.50	0.180	99.66	56.79	43.21
120	3.00	0.125	161.03	91.75	8.25
170	3.50	0.090	172.93	98.54	1.46
200	3.75	0.075	173.18	98.68	1.32
230	4.00	0.063	174.33	99.34	0.66
PAN			175.48	99.99	0.01

PHI (5): -0.94 PHI (16): 0.14 PHI (25): 0.67
PHI (50): 2.21 PHI (75): 2.76 PHI (84): 2.89
PHI (95): 3.24

SIEVE LOSS (g): 0.02 SILT/CLAY: 1.32%
SKEWNESS: -0.774 KURTOSIS: 0.817

GRAPHIC METHOD

MEAN (PHI): 1.51 SORTING: 1.38
MEAN (mm) : 0.35 MEDIAN (mm): 0.22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.62 SORTING: 1.47
MEAN (mm) : 0.33

DATA FILE NAME: VC99-79#3.TAB

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

SAMPLE NO.: VC99 79#4
 SAMPLE ELEV. (FT. NGVD): -60.8
 SAMPLE DEPTH (FT.): 6.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 203.29
 SAMPLE WEIGHT AFTER WASH (GRAMS): 200.36

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	1.07	0.53	99.47
7	-1.50	2.800	1.90	0.93	99.07
10	-1.00	2.000	4.52	2.22	97.78
14	-0.50	1.400	14.11	6.94	93.06
18	0.00	1.000	17.32	8.52	91.48
25	0.50	0.710	26.25	12.91	87.09
35	1.00	0.500	44.71	21.99	78.01
45	1.50	0.355	67.97	33.43	66.57
60	2.00	0.250	89.06	43.81	56.19
80	2.50	0.180	116.78	57.45	42.55
120	3.00	0.125	186.16	91.57	8.43
170	3.50	0.090	199.84	98.30	1.70
200	3.75	0.075	200.15	98.46	1.54
230	4.00	0.063	201.72	99.23	0.77
PAN			203.27	99.99	0.01

PHI (5): -0.71 PHI (16): 0.67 PHI (25): 1.13
 PHI (50): 2.23 PHI (75): 2.76 PHI (84): 2.89
 PHI (95): 3.25

SIEVE LOSS (g): 0.02 SILT/CLAY: 1.54%
 SKEWNESS: -0.859 KURTOSIS: 0.998

GRAPHIC METHOD

MEAN (PHI): 1.67 SORTING: 1.11
 MEAN (mm): 0.31 MEDIAN (mm): 0.21
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.84 SORTING: 1.19
 MEAN (mm): 0.28

DATA FILE NAME: VC99-79#4.TAB

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

SAMPLE NO.: VC99 79#5
SAMPLE ELEV. (FT. NGVD): -64.8
SAMPLE DEPTH (FT.): 10.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 214.88
SAMPLE WEIGHT AFTER WASH (GRAMS): 211.30

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	0.43	0.20	99.80
7	-1.50	2.800	1.49	0.69	99.31
10	-1.00	2.000	2.97	1.38	98.62
14	-0.50	1.400	5.23	2.43	97.57
18	0.00	1.000	8.65	4.03	95.97
25	0.50	0.710	19.11	8.89	91.11
35	1.00	0.500	35.41	16.48	83.52
45	1.50	0.355	49.77	23.16	76.84
60	2.00	0.250	62.99	29.31	70.69
80	2.50	0.180	86.80	40.39	59.61
120	3.00	0.125	164.68	76.64	23.36
170	3.50	0.090	209.85	97.66	2.34
200	3.75	0.075	210.70	98.05	1.95
230	4.00	0.063	212.82	99.04	0.96
PAN			214.86	99.99	0.01

PHI (5): 0.10 PHI (16): 0.97 PHI (25): 1.65
PHI (50): 2.63 PHI (75): 2.98 PHI (84): 3.18
PHI (95): 3.44

SIEVE LOSS (g): 0.02 SILT/CLAY: 1.95%
SKEWNESS: -0.783 KURTOSIS: 1.030

GRAPHIC METHOD

MEAN (PHI): 2.06 SORTING: 1.10
MEAN (mm): 0.24 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.23 SORTING: 1.09
MEAN (mm): 0.21

DATA FILE NAME: VC99-79#5.TAB

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

SAMPLE NO.: VC99 79#6
SAMPLE ELEV. (FT. NGVD): -69.8
SAMPLE DEPTH (FT.): 15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 181.21
SAMPLE WEIGHT AFTER WASH (GRAMS): 174.59

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	0.96	0.53	99.47
5	-2.00	4.000	4.29	2.37	97.63
7	-1.50	2.800	7.16	3.95	96.05
10	-1.00	2.000	12.12	6.69	93.31
14	-0.50	1.400	35.80	19.76	80.24
18	0.00	1.000	46.25	25.52	74.48
25	0.50	0.710	69.14	38.15	61.85
35	1.00	0.500	84.93	46.87	53.13
45	1.50	0.355	146.24	80.70	19.30
60	2.00	0.250	162.26	89.54	10.46
80	2.50	0.180	167.22	92.28	7.72
120	3.00	0.125	170.95	94.34	5.66
170	3.50	0.090	173.75	95.88	4.12
200	3.75	0.075	174.27	96.17	3.83
230	4.00	0.063	177.84	98.14	1.86
PAN			181.20	99.99	0.01

PHI (5): -1.31 PHI (16): -0.64 PHI (25): -0.05
PHI (50): 1.05 PHI (75): 1.42 PHI (84): 1.69
PHI (95): 3.21

SIEVE LOSS (g): 0.01 SILT/CLAY: 3.83%
SKEWNESS: -0.080 KURTOSIS: 1.269

GRAPHIC METHOD
MEAN (PHI): 0.80 SORTING: 1.17
MEAN (mm): 0.57 MEDIAN (mm): 0.48
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
MEAN (PHI): 0.70 SORTING: 1.24
MEAN (mm): 0.61

DATA FILE NAME: VC99-79#6.TAB

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

SAMPLE NO.: VC-99#79-7
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 8.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 107.03
SAMPLE WEIGHT AFTER WASH (GRAMS): 104.42

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	0.66	0.62	99.38
7	-1.50	2.800	1.38	1.29	98.71
10	-1.00	2.000	2.43	2.27	97.73
14	-0.50	1.400	5.85	5.47	94.53
18	0.00	1.000	12.24	11.44	88.56
25	0.50	0.710	25.51	23.83	76.17
35	1.00	0.500	41.46	38.74	61.26
45	1.50	0.355	54.35	50.78	49.22
60	2.00	0.250	64.01	59.81	40.19
80	2.50	0.180	72.74	67.96	32.04
120	3.00	0.125	96.62	90.27	9.73
170	3.50	0.090	104.05	97.22	2.78
200	3.75	0.075	104.29	97.44	2.56
230	4.00	0.063	105.68	98.74	1.26
PAN			107.02	99.99	0.01

PHI (5): -0.57 PHI (16): 0.18 PHI (25): 0.54
PHI (50): 1.47 PHI (75): 2.66 PHI (84): 2.86
PHI (95): 3.34

SIEVE LOSS (g): 0.01 SILT/CLAY: 2.56%
SKEWNESS: -0.063 KURTOSIS: 0.757

GRAPHIC METHOD

MEAN (PHI): 1.46 SORTING: 1.34
MEAN (mm) : 0.36 MEDIAN (mm): 0.36
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.47 SORTING: 1.26
MEAN (mm) : 0.36

DATA FILE NAME: vc-99#79-7.tab

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

SAMPLE NO.: VC-99#79-8
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 11.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 114.18
SAMPLE WEIGHT AFTER WASH (GRAMS): 111.70

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	0.87	0.76	99.24
7	-1.50	2.800	2.52	2.21	97.79
10	-1.00	2.000	5.23	4.58	95.42
14	-0.50	1.400	11.44	10.02	89.98
18	0.00	1.000	24.26	21.25	78.75
25	0.50	0.710	50.31	44.06	55.94
35	1.00	0.500	81.04	70.98	29.02
45	1.50	0.355	94.78	83.01	16.99
60	2.00	0.250	100.47	87.99	12.01
80	2.50	0.180	102.77	90.01	9.99
120	3.00	0.125	107.37	94.04	5.96
170	3.50	0.090	111.33	97.50	2.50
200	3.75	0.075	111.49	97.64	2.36
230	4.00	0.063	112.79	98.78	1.22
PAN			114.15	99.97	0.03

PHI (5): -0.96 PHI (16): -0.23 PHI (25): 0.08
PHI (50): 0.61 PHI (75): 1.17 PHI (84): 1.60
PHI (95): 3.14

SIEVE LOSS (g): 0.03 SILT/CLAY: 2.36%
SKEWNESS: 0.522 KURTOSIS: 1.549

GRAPHIC METHOD

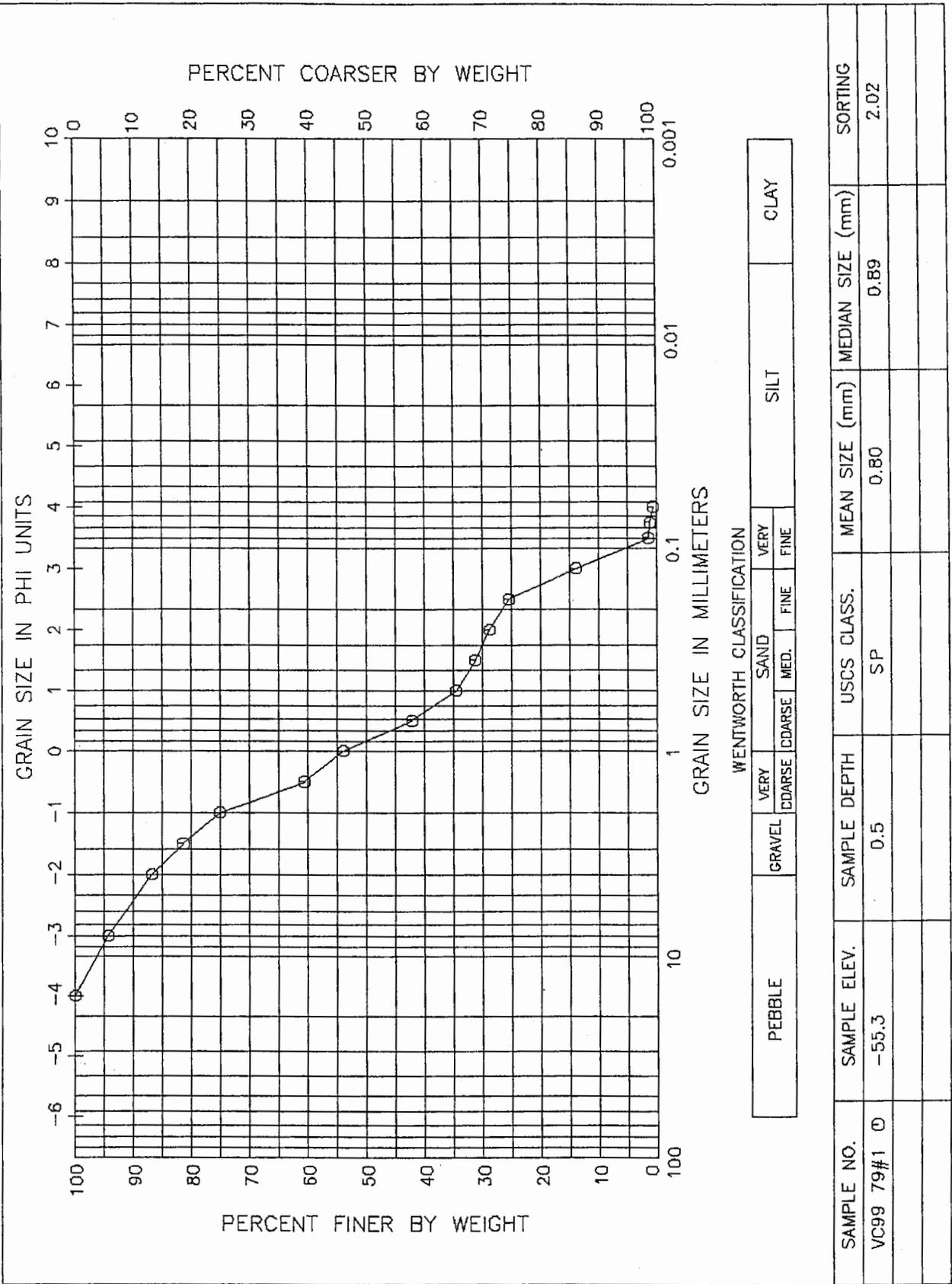
MEAN (PHI): 0.83 SORTING: 0.92
MEAN (mm) : 0.56 MEDIAN (mm): 0.66

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

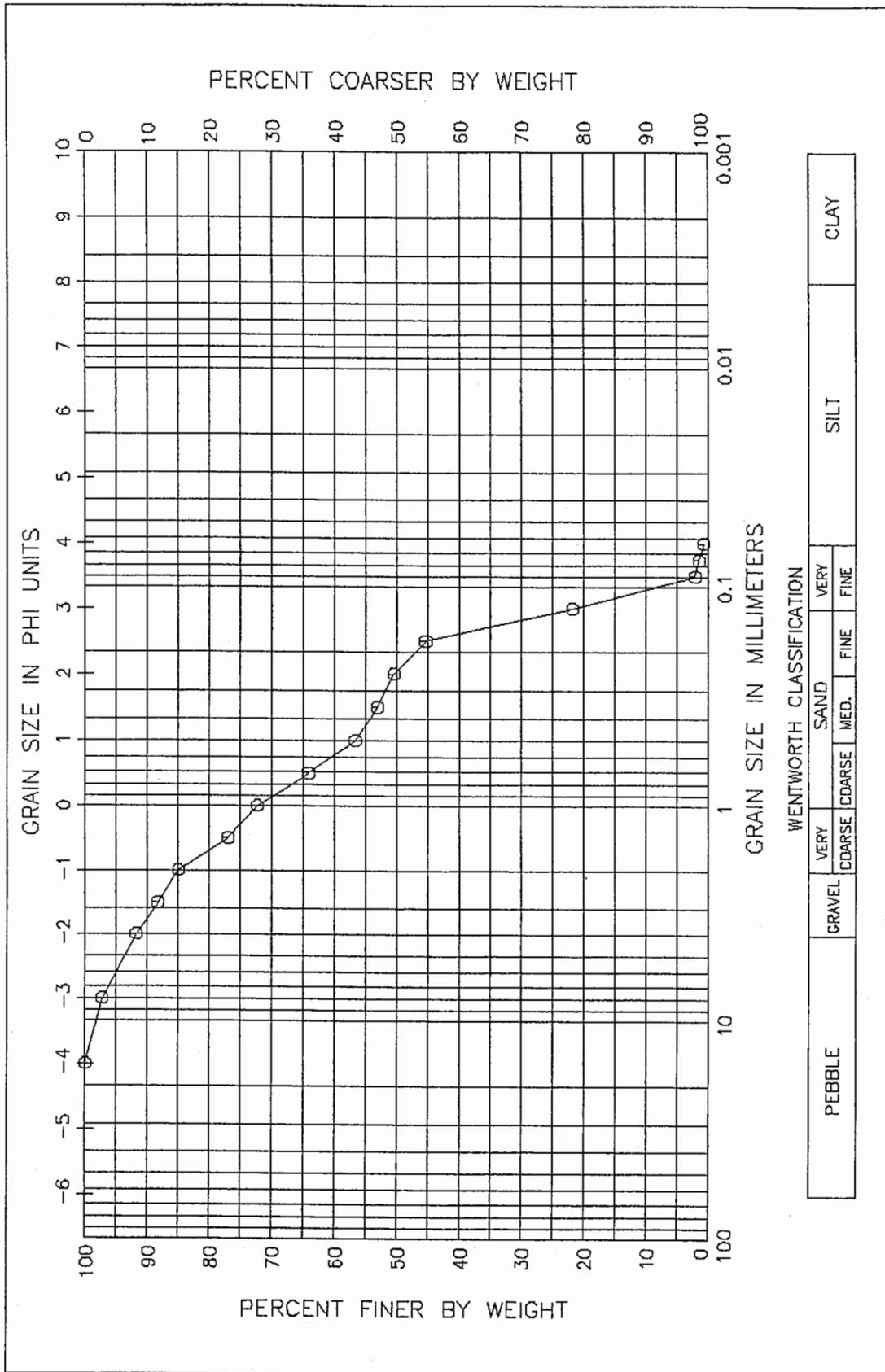
MOMENT METHOD

MEAN (PHI): 0.68 SORTING: 1.09
MEAN (mm) : 0.62

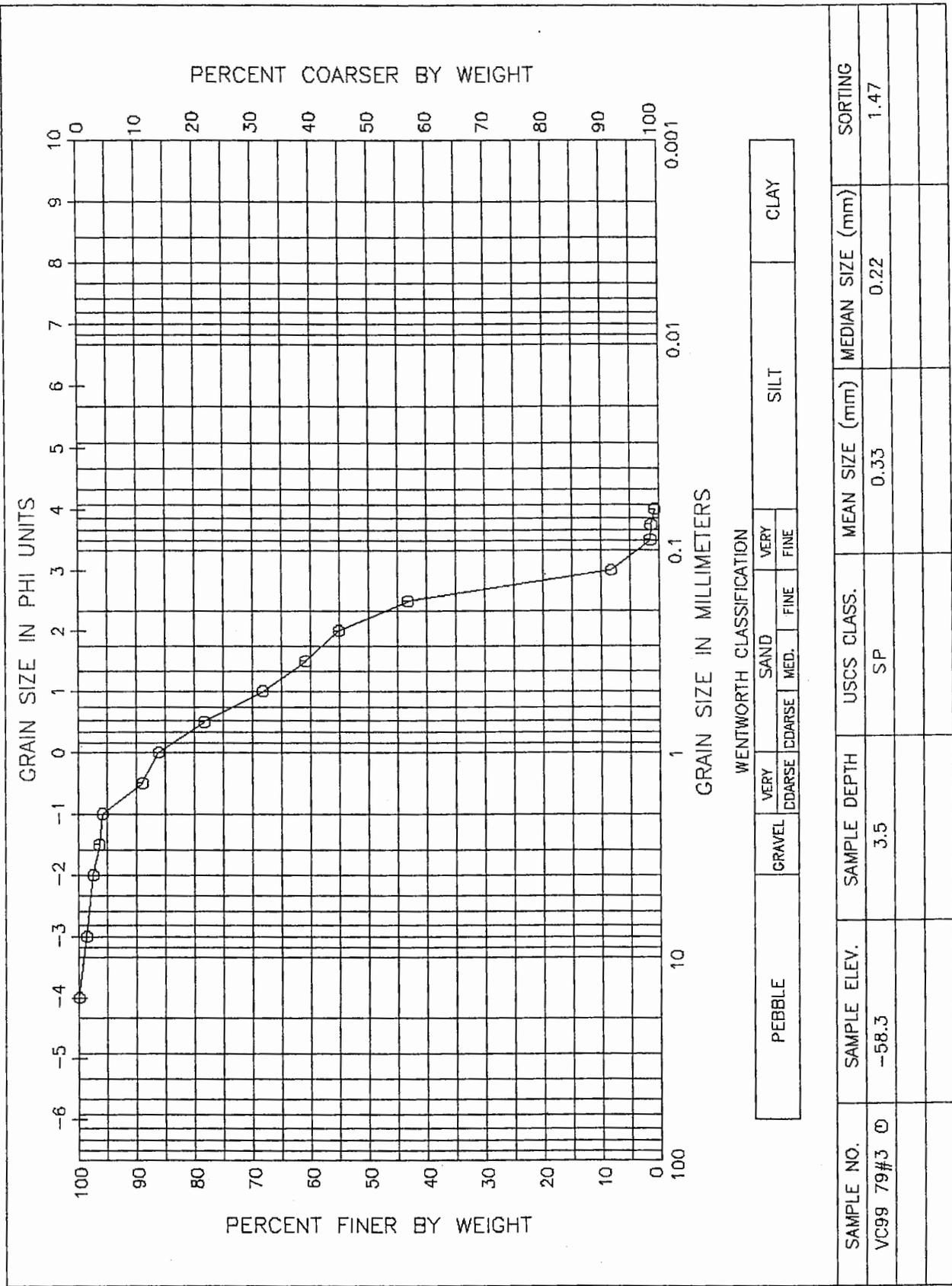
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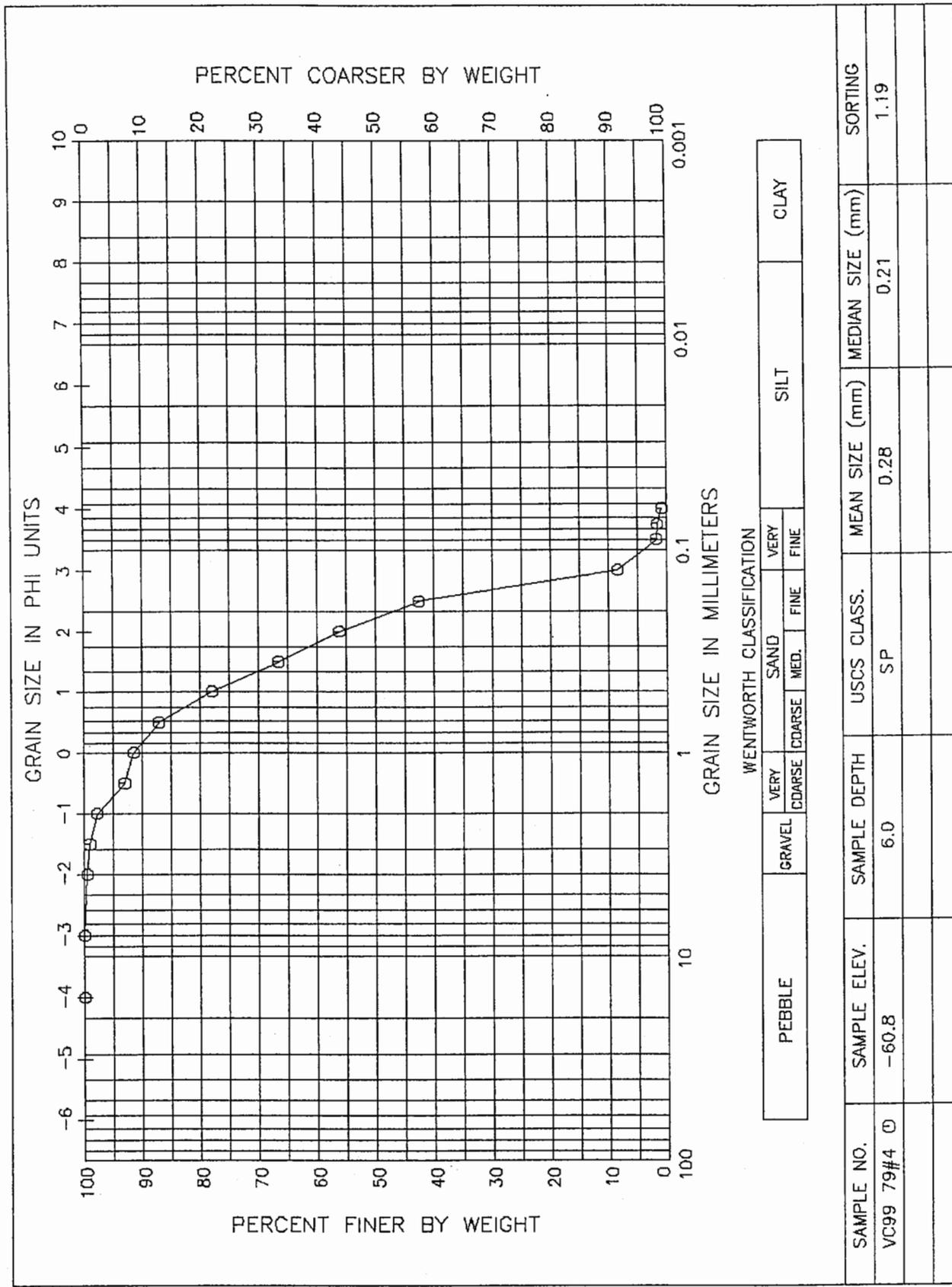
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



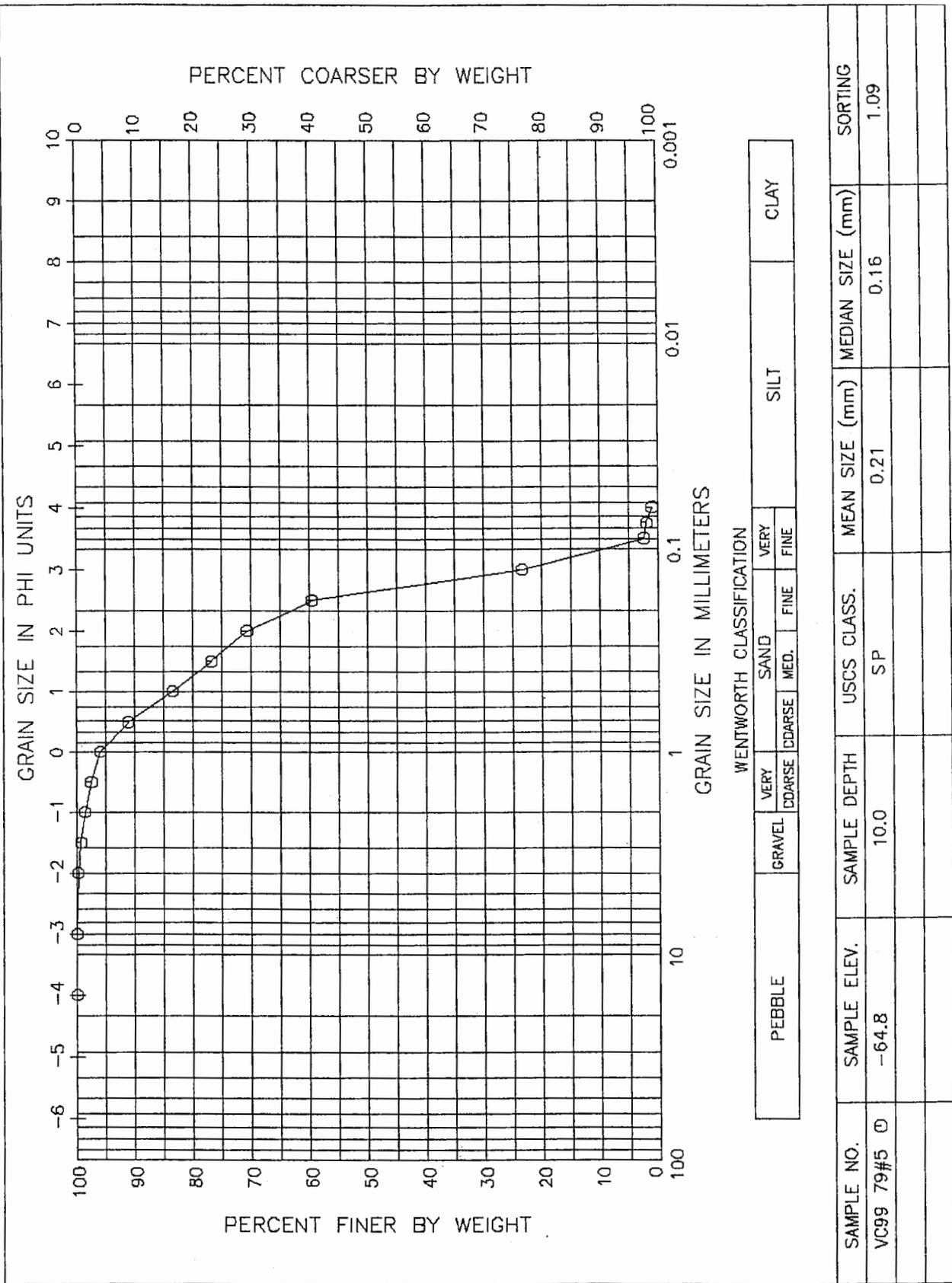
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



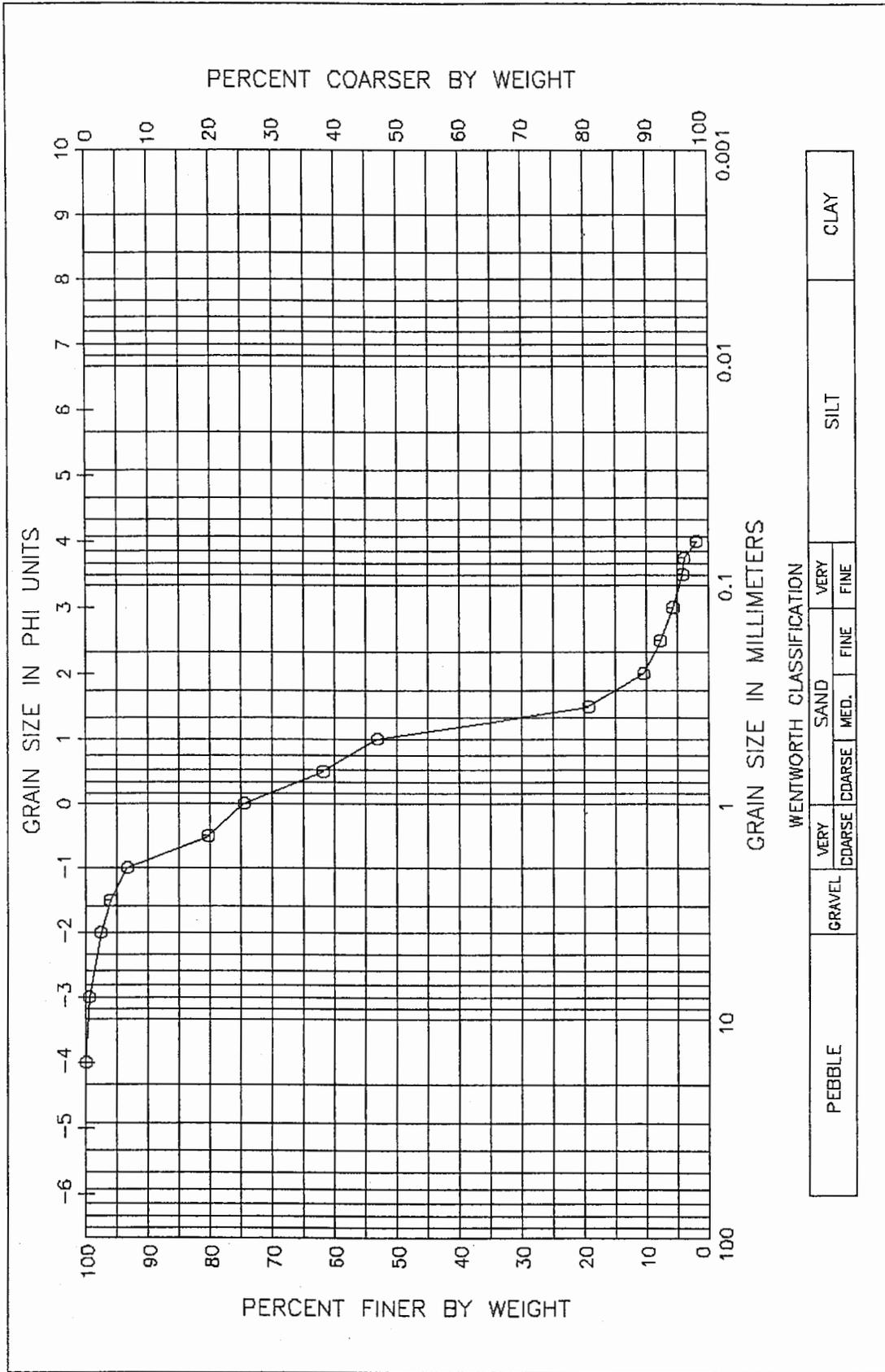
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

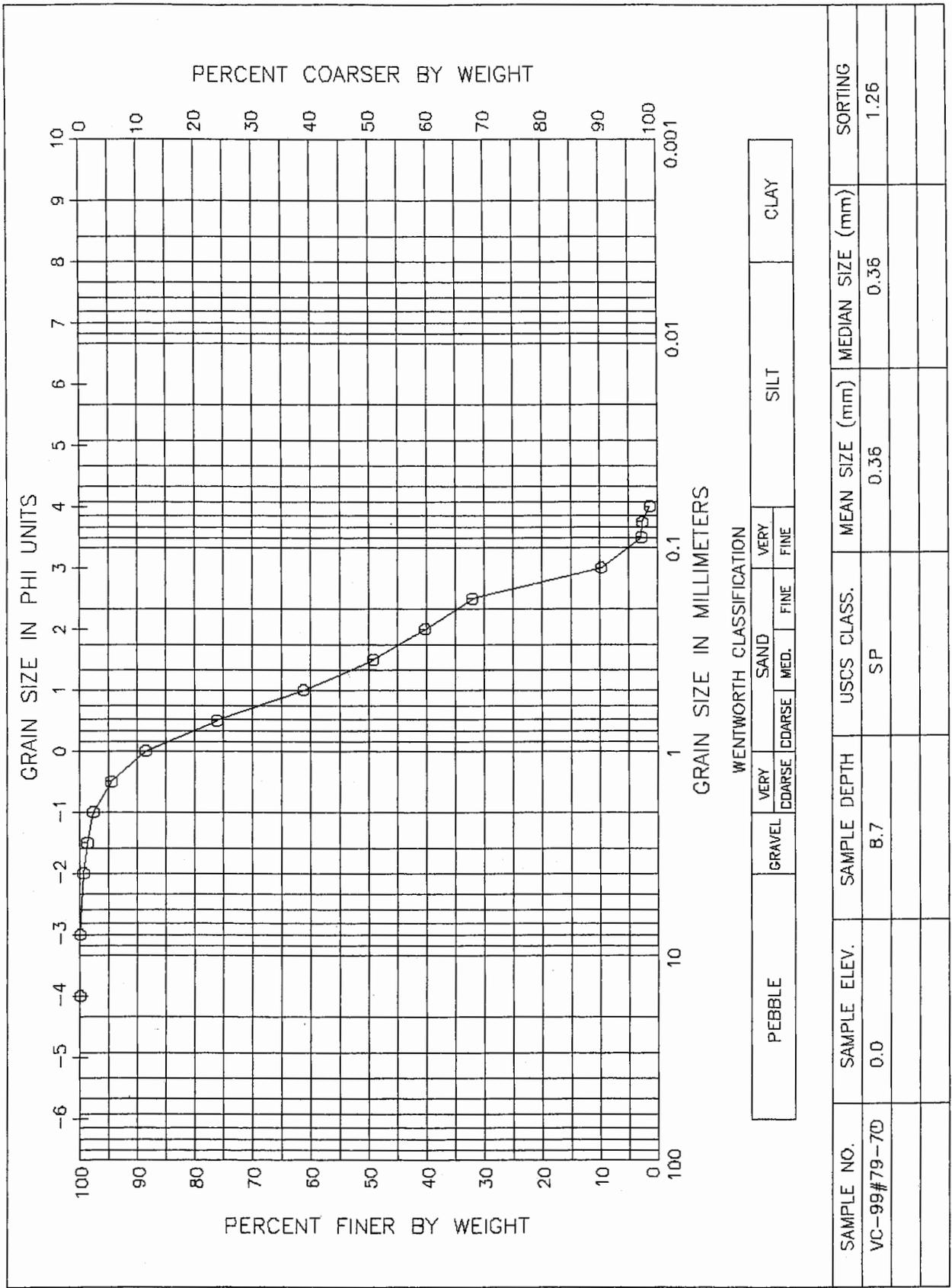


GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

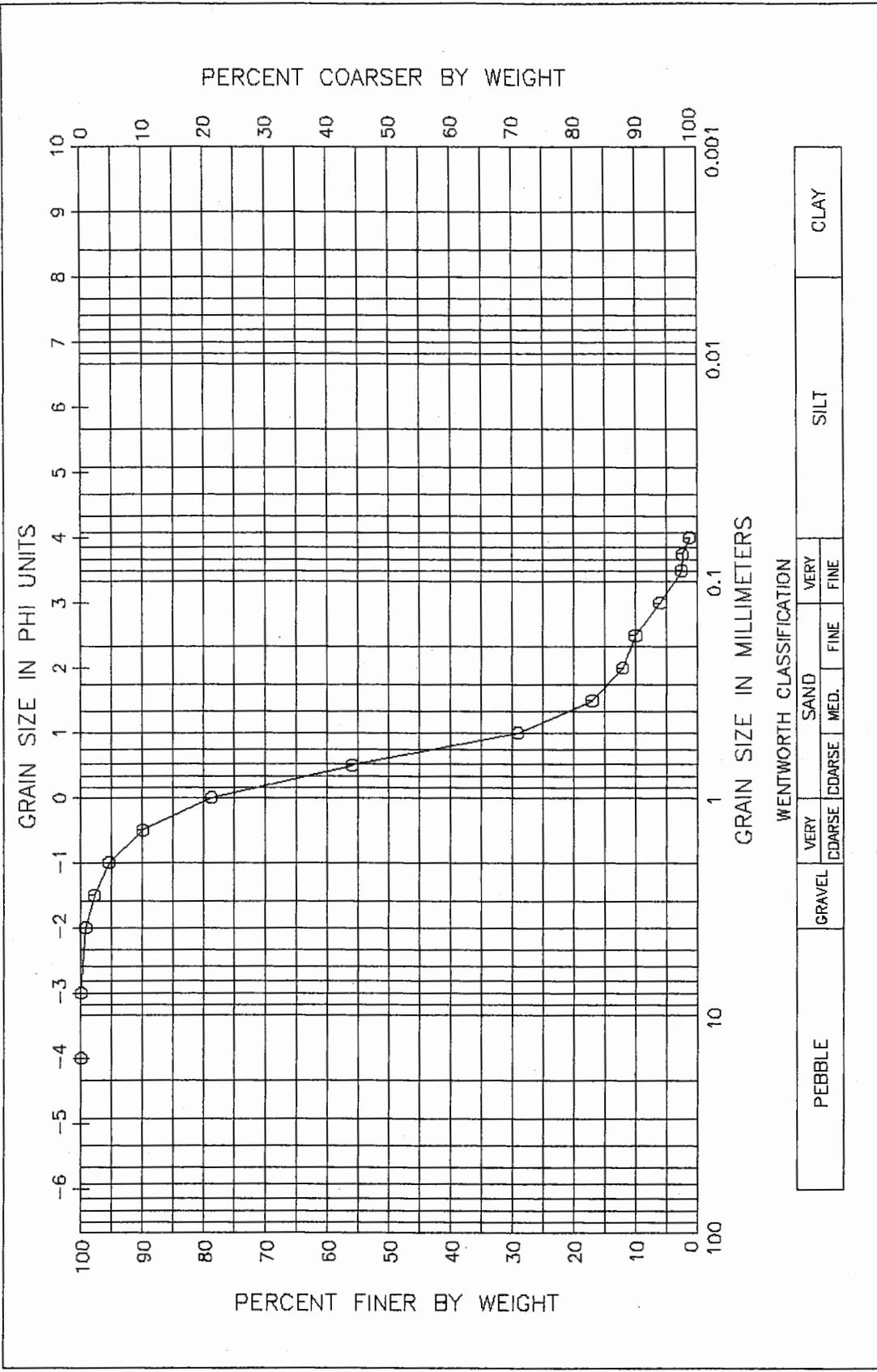


SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 79#6	-69.8	15.0	SP	0.61	0.48	1.24

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
VC-99#79-80	0.0	11.7	SP	0.62	0.66	1.09

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH