

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#1
SAMPLE ELEV. (FT. NGVD): -33.8
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 241.09
SAMPLE WEIGHT AFTER WASH (GRAMS): 238.42

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	0.23	0.10	99.90
7	-1.50	2.800	0.37	0.15	99.85
10	-1.00	2.000	0.71	0.29	99.71
14	-0.50	1.400	1.30	0.54	99.46
18	0.00	1.000	2.32	0.96	99.04
25	0.50	0.710	4.12	1.71	98.29
35	1.00	0.500	6.50	2.70	97.30
45	1.50	0.355	9.40	3.90	96.10
60	2.00	0.250	16.26	6.74	93.26
80	2.50	0.180	34.36	14.25	85.75
120	3.00	0.125	133.95	55.56	44.44
170	3.50	0.090	235.75	97.79	2.21
200	3.75	0.075	237.96	98.70	1.30
230	4.00	0.063	239.64	99.40	0.60
PAN			241.07	99.99	0.01

PHI (5): 1.69 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): 0.02 SILT/CLAY: 1.30%
SKEWNESS: -0.864 KURTOSIS: 1.211

GRAPHIC METHOD

MEAN (PHI): 2.79 SORTING: 0.41
MEAN (mm) : 0.14 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.82 SORTING: 0.64
MEAN (mm) : 0.14

DATA FILE NAME: VC99-51#1.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#2
 SAMPLE ELEV. (FT. NGVD): -35.8
 SAMPLE DEPTH (FT.): 4.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 181.92
 SAMPLE WEIGHT AFTER WASH (GRAMS): 178.67

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	3.22	1.77	98.23
7	-1.50	2.800	6.55	3.60	96.40
10	-1.00	2.000	11.06	6.08	93.92
14	-0.50	1.400	17.30	9.51	90.49
18	0.00	1.000	23.62	12.98	87.02
25	0.50	0.710	31.75	17.45	82.55
35	1.00	0.500	42.12	23.15	76.85
45	1.50	0.355	50.21	27.60	72.40
60	2.00	0.250	61.03	33.55	66.45
80	2.50	0.180	79.72	43.82	56.18
120	3.00	0.125	131.88	72.49	27.51
170	3.50	0.090	176.92	97.25	2.75
200	3.75	0.075	178.41	98.07	1.93
230	4.00	0.063	180.24	99.07	0.93
PAN			181.92	100.00	0.00

PHI (5): -1.22 PHI (16): 0.34 PHI (25): 1.21
 PHI (50): 2.61 PHI (75): 3.05 PHI (84): 3.23
 PHI (95): 3.45

SIEVE LOSS (g): 0.00 SILT/CLAY: 1.93%
 SKEWNESS: -1.029 KURTOSIS: 1.039

GRAPHIC METHOD

MEAN (PHI): 1.68 SORTING: 1.45
 MEAN (mm): 0.31 MEDIAN (mm): 0.16
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.98 SORTING: 1.48
 MEAN (mm): 0.25

DATA FILE NAME: VC99-51#2.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#3
SAMPLE ELEV. (FT. NGVD): -37.2
SAMPLE DEPTH (FT.): 5.4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 245.33
SAMPLE WEIGHT AFTER WASH (GRAMS): 242.23

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	0.89	0.36	99.64
7	-1.50	2.800	1.22	0.50	99.50
10	-1.00	2.000	1.88	0.77	99.23
14	-0.50	1.400	2.93	1.19	98.81
18	0.00	1.000	4.03	1.64	98.36
25	0.50	0.710	6.06	2.47	97.53
35	1.00	0.500	9.11	3.71	96.29
45	1.50	0.355	13.44	5.48	94.52
60	2.00	0.250	24.76	10.09	89.91
80	2.50	0.180	53.13	21.66	78.34
120	3.00	0.125	166.72	67.96	32.04
170	3.50	0.090	239.68	97.70	2.30
200	3.75	0.075	241.59	98.48	1.52
230	4.00	0.063	243.60	99.29	0.71
PAN			245.34	100.00	0.00

PHI(5): 1.36 PHI(16): 2.26 PHI(25): 2.54
PHI(50): 2.81 PHI(75): 3.12 PHI(84): 3.27
PHI(95): 3.45

SIEVE LOSS (g): -0.01 SILT/CLAY: 1.52%
SKEWNESS: -0.782 KURTOSIS: 1.471

GRAPHIC METHOD

MEAN (PHI): 2.63 SORTING: 0.51
MEAN (mm) : 0.16 MEDIAN (mm) : 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.67 SORTING: 0.75
MEAN (mm) : 0.16

DATA FILE NAME: VC99-51#3.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#4
SAMPLE ELEV. (FT. NGVD): -38.8
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 273.87
SAMPLE WEIGHT AFTER WASH (GRAMS): 269.18

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	0.52	0.19	99.81
7	-1.50	2.800	1.37	0.50	99.50
10	-1.00	2.000	2.50	0.91	99.09
14	-0.50	1.400	4.28	1.56	98.44
18	0.00	1.000	6.41	2.34	97.66
25	0.50	0.710	9.88	3.61	96.39
35	1.00	0.500	16.48	6.02	93.98
45	1.50	0.355	27.67	10.10	89.90
60	2.00	0.250	49.44	18.05	81.95
80	2.50	0.180	99.29	36.25	63.75
120	3.00	0.125	221.62	80.92	19.08
170	3.50	0.090	266.53	97.32	2.68
200	3.75	0.075	268.21	97.93	2.07
230	4.00	0.063	271.45	99.12	0.88
PAN			273.86	100.00	0.00

PHI (5): 0.79 PHI (16): 1.87 PHI (25): 2.19
PHI (50): 2.65 PHI (75): 2.93 PHI (84): 3.09
PHI (95): 3.43

SIEVE LOSS (g): 0.01 SILT/CLAY: 2.07%
SKEWNESS: -0.891 KURTOSIS: 1.457

GRAPHIC METHOD

MEAN (PHI): 2.37 SORTING: 0.61
MEAN (mm): 0.19 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.45 SORTING: 0.84
MEAN (mm): 0.18

DATA FILE NAME: VC99-51#4.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#5
 SAMPLE ELEV. (FT. NGVD): -40.5
 SAMPLE DEPTH (FT.): 8.7
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 204.32
 SAMPLE WEIGHT AFTER WASH (GRAMS): 200.48

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	0.87	0.43	99.57
5	-2.00	4.000	4.31	2.11	97.89
7	-1.50	2.800	7.64	3.74	96.26
10	-1.00	2.000	13.53	6.62	93.38
14	-0.50	1.400	20.77	10.17	89.83
18	0.00	1.000	30.74	15.05	84.95
25	0.50	0.710	48.90	23.93	76.07
35	1.00	0.500	77.16	37.76	62.24
45	1.50	0.355	109.24	53.47	46.53
60	2.00	0.250	144.12	70.54	29.46
80	2.50	0.180	165.17	80.84	19.16
120	3.00	0.125	189.36	92.68	7.32
170	3.50	0.090	199.32	97.55	2.45
200	3.75	0.075	199.91	97.84	2.16
230	4.00	0.063	202.18	98.95	1.05
PAN			204.31	100.00	0.00

PHI(5): -1.28 PHI(16): 0.05 PHI(25): 0.54
 PHI(50): 1.39 PHI(75): 2.22 PHI(84): 2.63
 PHI(95): 3.24

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.16%
 SKEWNESS: -0.319 KURTOSIS: 1.104

GRAPHIC METHOD

MEAN (PHI): 1.21 SORTING: 1.29
 MEAN (mm) : 0.43 MEDIAN (mm): 0.38
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.24 SORTING: 1.32
 MEAN (mm) : 0.42

DATA FILE NAME: VC99-51#5.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#6
 SAMPLE ELEV. (FT. NGVD): -44.8
 SAMPLE DEPTH (FT.): 13.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 220.37
 SAMPLE WEIGHT AFTER WASH (GRAMS): 216.54

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	0.27	0.12	99.88
7	-1.50	2.800	0.43	0.20	99.80
10	-1.00	2.000	0.92	0.42	99.58
14	-0.50	1.400	1.54	0.70	99.30
18	0.00	1.000	2.33	1.06	98.94
25	0.50	0.710	3.53	1.60	98.40
35	1.00	0.500	6.02	2.73	97.27
45	1.50	0.355	9.25	4.20	95.80
60	2.00	0.250	15.73	7.14	92.86
80	2.50	0.180	32.56	14.78	85.22
120	3.00	0.125	126.30	57.31	42.69
170	3.50	0.090	214.37	97.28	2.72
200	3.75	0.075	215.97	98.00	2.00
230	4.00	0.063	218.26	99.04	0.96
PAN			220.38	100.00	0.00

PHI(5): 1.64 PHI(16): 2.51 PHI(25): 2.62
 PHI(50): 2.91 PHI(75): 3.22 PHI(84): 3.33
 PHI(95): 3.47

SIEVE LOSS (g): -0.01 SILT/CLAY: 2.00%
 SKEWNESS: -0.879 KURTOSIS: 1.251

GRAPHIC METHOD
 MEAN (PHI): 2.77 SORTING: 0.41
 MEAN (mm) : 0.15 MEDIAN (mm): 0.13
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 2.80 SORTING: 0.66
 MEAN (mm) : 0.14

DATA FILE NAME: VC99-51#6.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/14/99

SAMPLE NO.: VC99 51#7
 SAMPLE ELEV. (FT. NGVD): -47.6
 SAMPLE DEPTH (FT.): 15.8
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 213.49
 SAMPLE WEIGHT AFTER WASH (GRAMS): 208.60

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	2.43	1.14	98.86
5	-2.00	4.000	4.81	2.25	97.75
7	-1.50	2.800	7.03	3.29	96.71
10	-1.00	2.000	10.40	4.87	95.13
14	-0.50	1.400	19.06	8.93	91.07
18	0.00	1.000	25.88	12.12	87.88
25	0.50	0.710	40.62	19.03	80.97
35	1.00	0.500	57.97	27.15	72.85
45	1.50	0.355	71.66	33.57	66.43
60	2.00	0.250	89.68	42.01	57.99
80	2.50	0.180	109.53	51.30	48.70
120	3.00	0.125	167.20	78.32	21.68
170	3.50	0.090	205.38	96.20	3.80
200	3.75	0.075	206.80	96.87	3.13
230	4.00	0.063	210.11	98.41	1.59
PAN			213.48	100.00	0.00

PHI (5): -0.98 PHI (16): 0.28 PHI (25): 0.87
 PHI (50): 2.43 PHI (75): 2.94 PHI (84): 3.16
 PHI (95): 3.47

SIEVE LOSS(g): 0.01 SILT/CLAY: 3.13%
 SKEWNESS: -0.826 KURTOSIS: 0.881

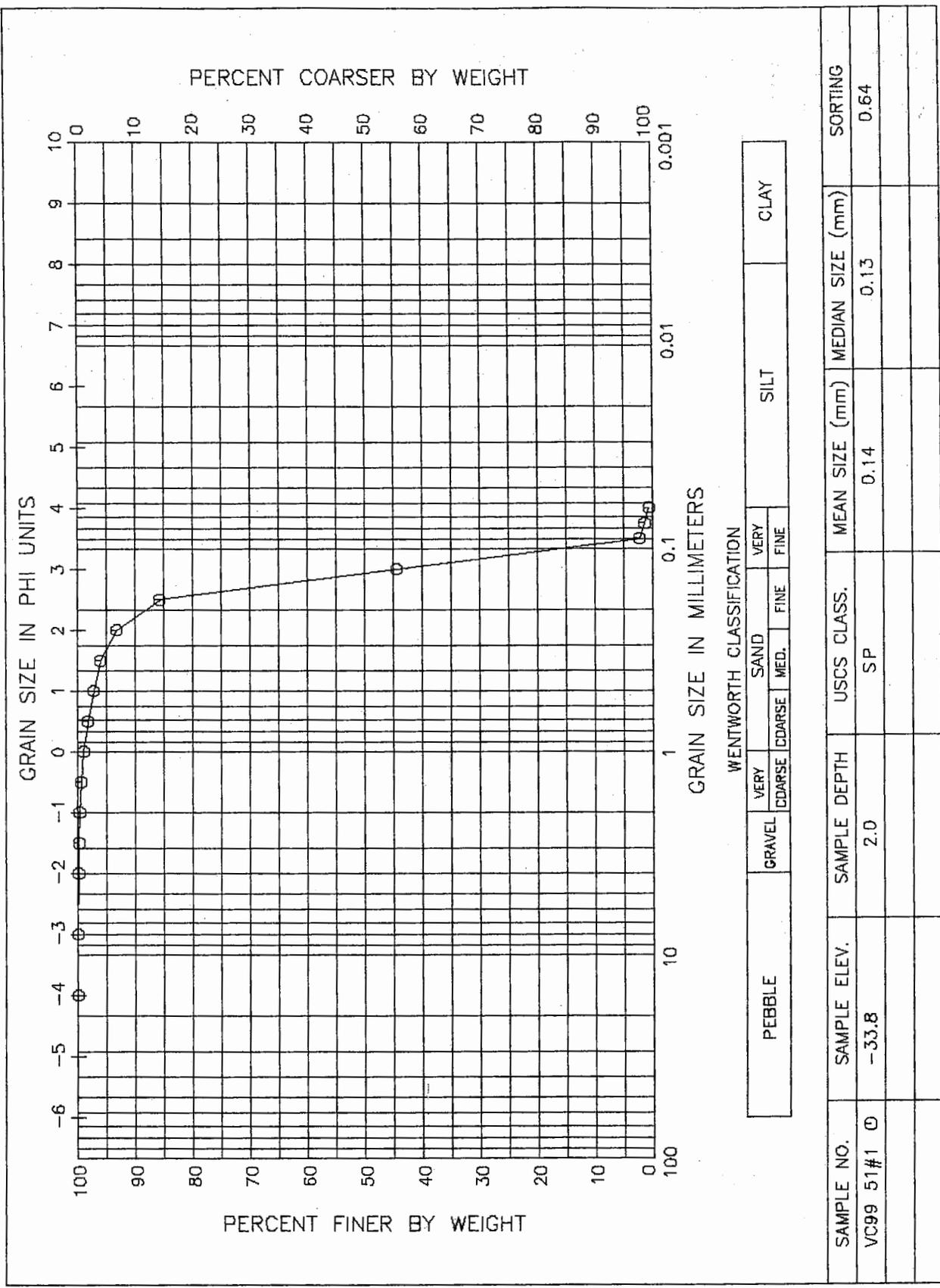
GRAPHIC METHOD

MEAN (PHI): 1.67 SORTING: 1.44
 MEAN (mm): 0.31 MEDIAN (mm): 0.19
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

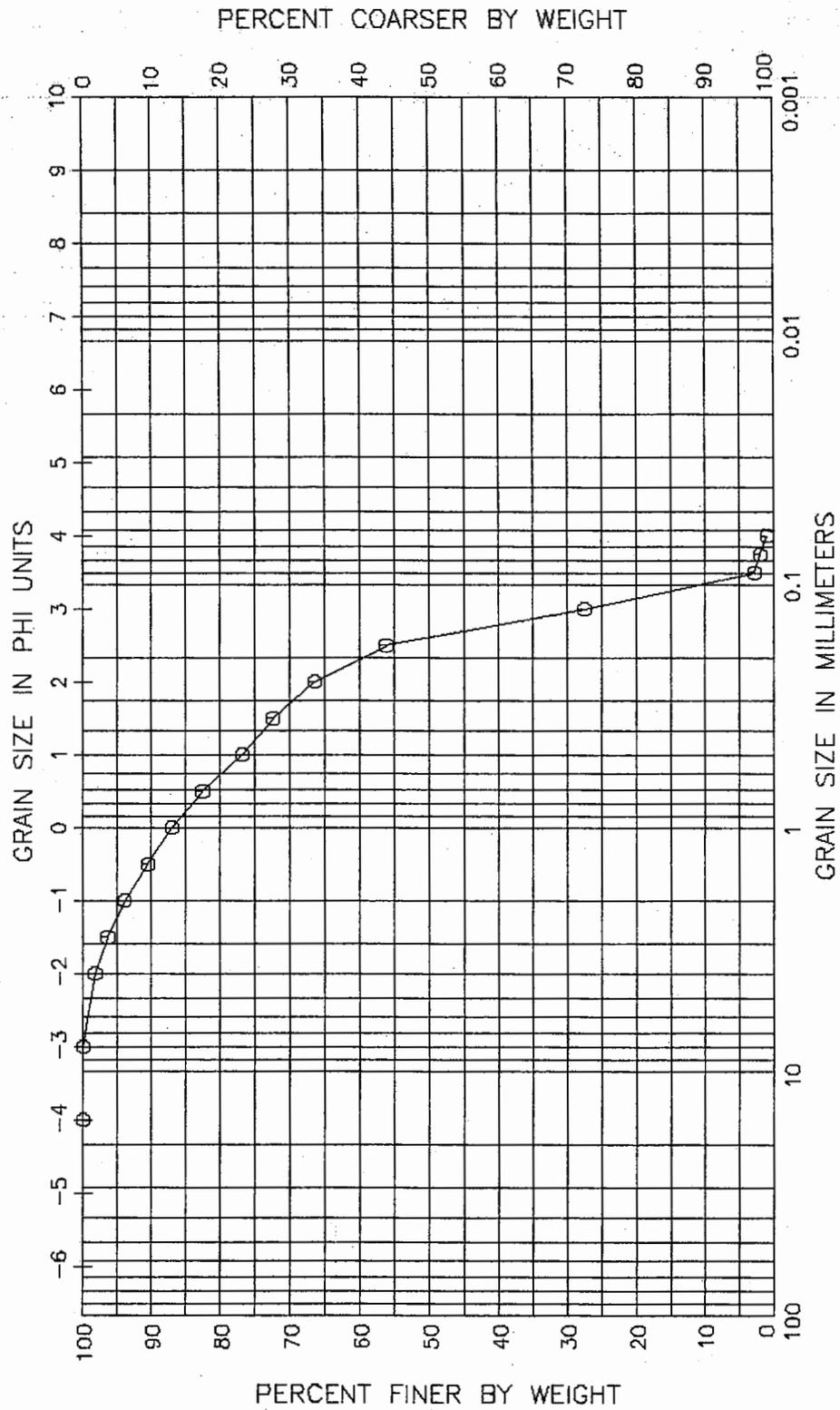
MOMENT METHOD

MEAN (PHI): 1.81 SORTING: 1.50
 MEAN (mm): 0.29

DATA FILE NAME: VC99-51#7.TAB



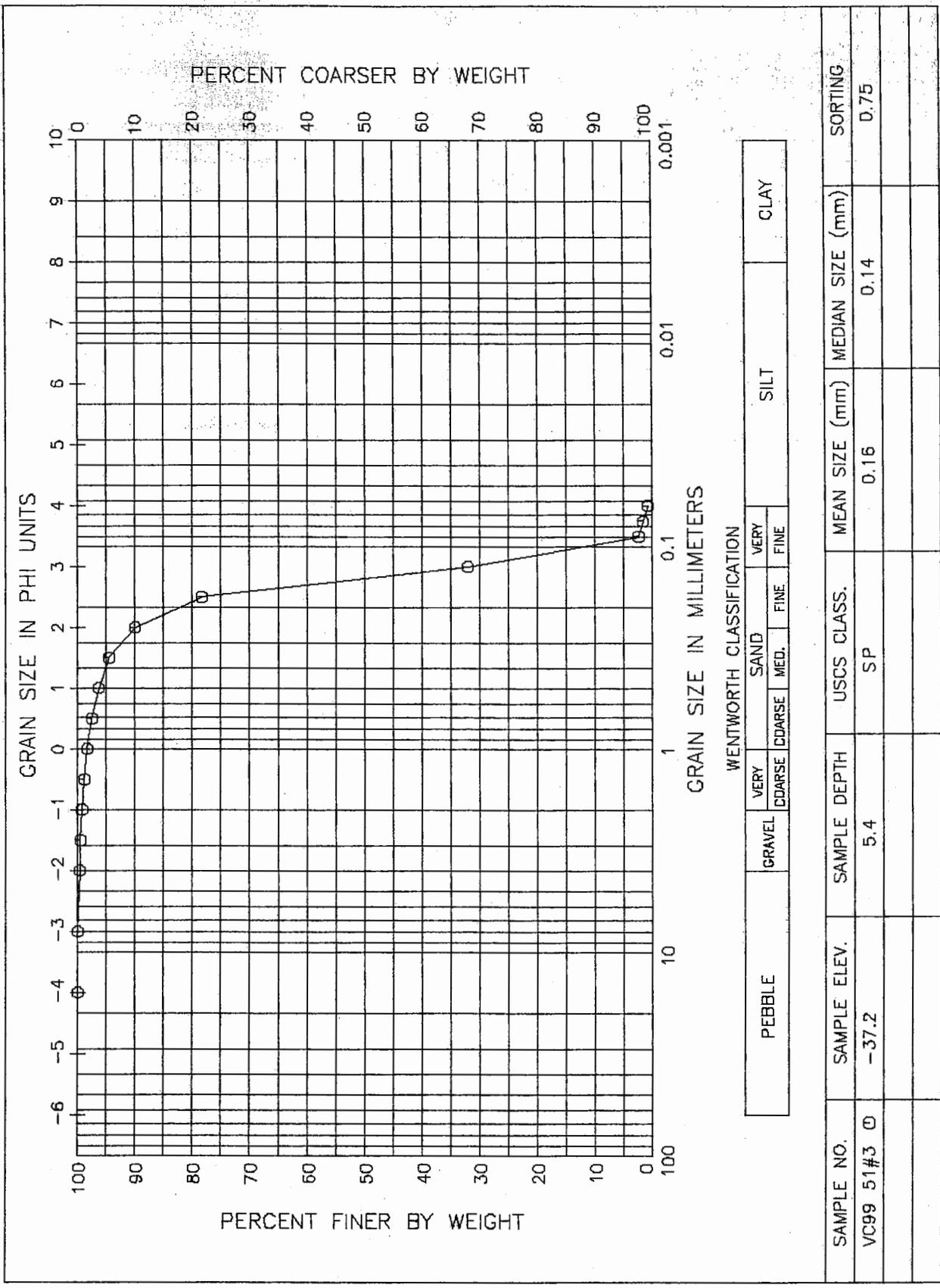
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



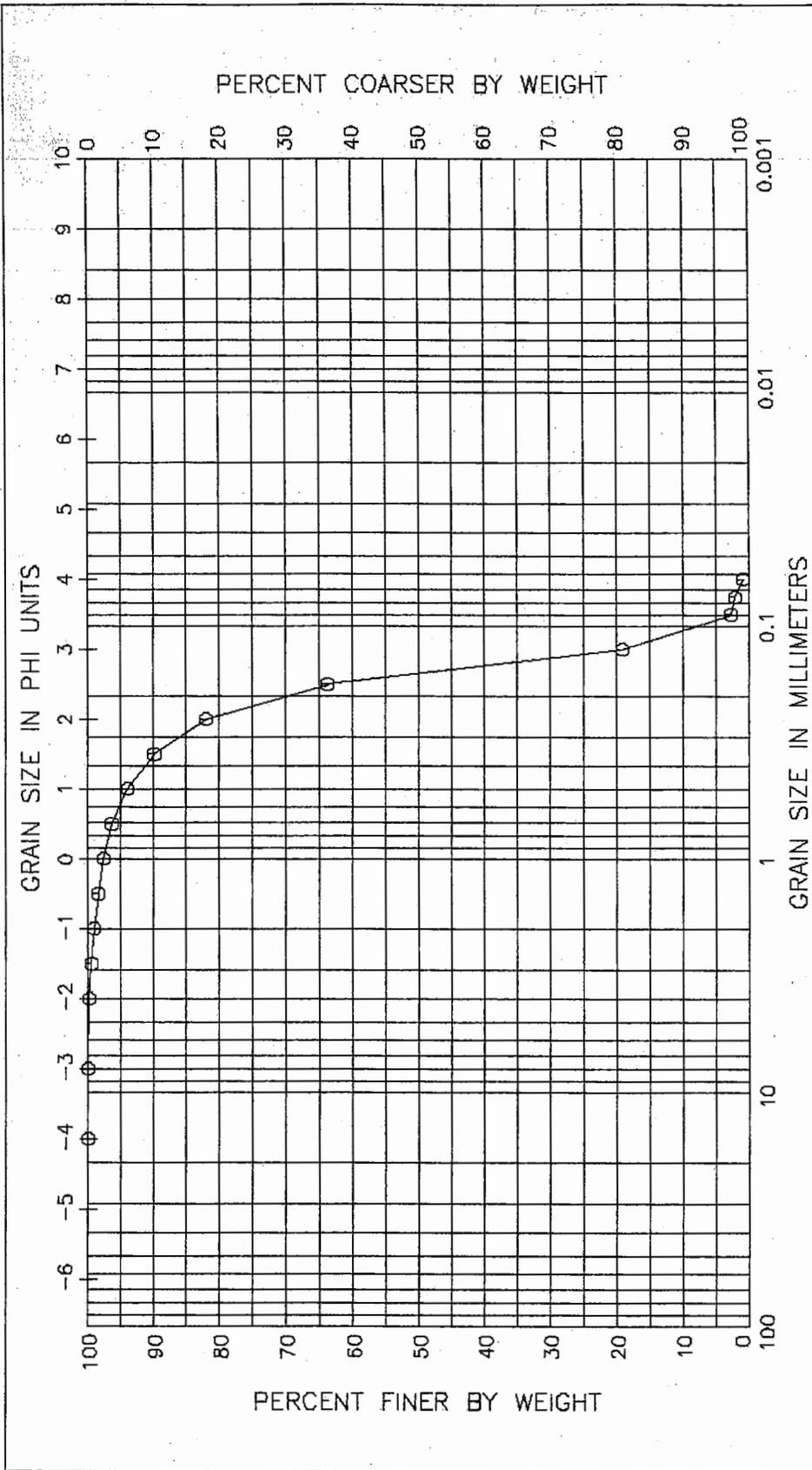
WENTWORTH CLASSIFICATION					
PEBBLE	GRAVEL		SAND		CLAY
	VERY COARSE	COARSE	MED.	FINE	

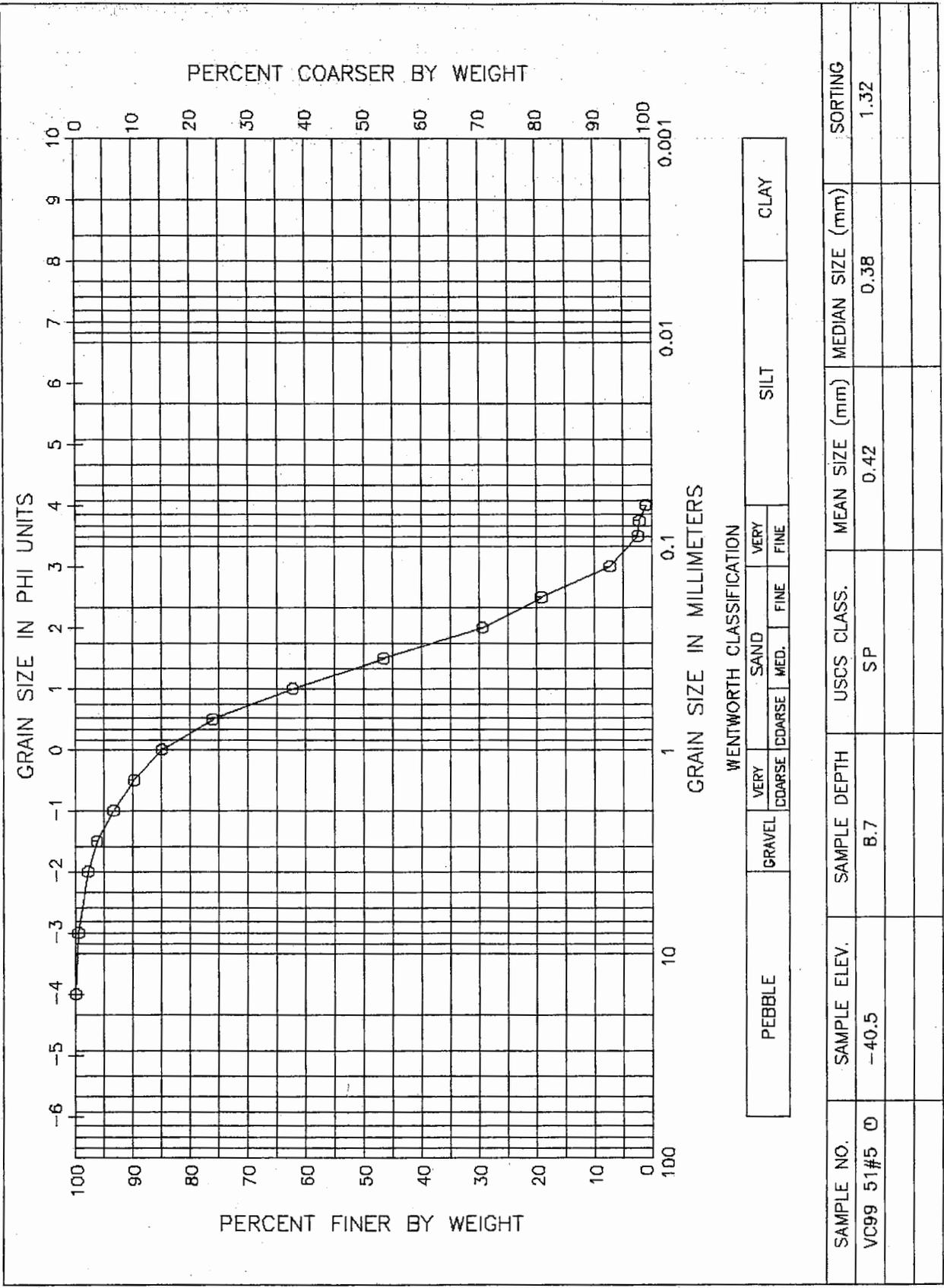
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VC99 51#2 O	-35.8	4.0	SP	0.25	0.16	1.48

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

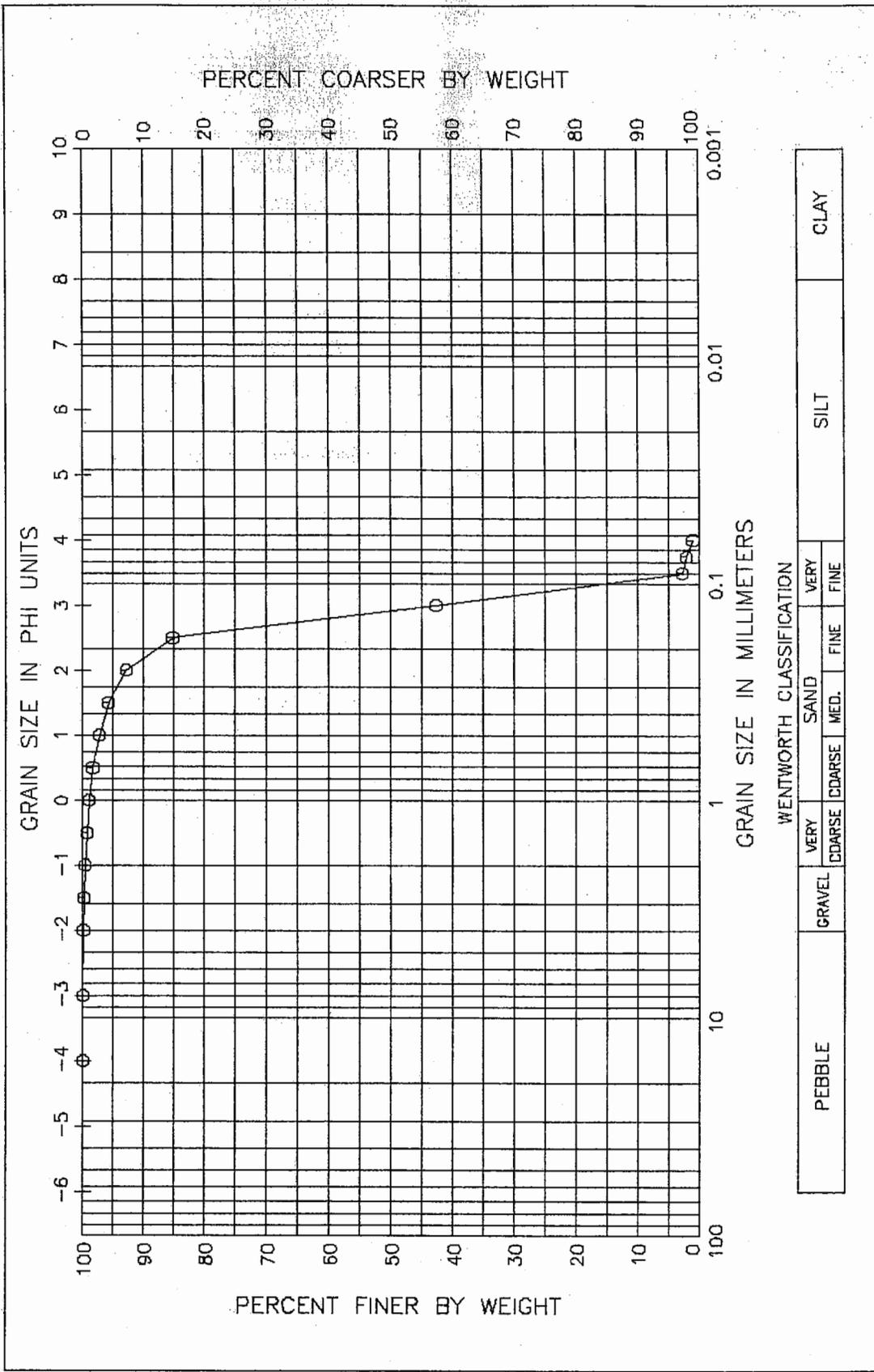


GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



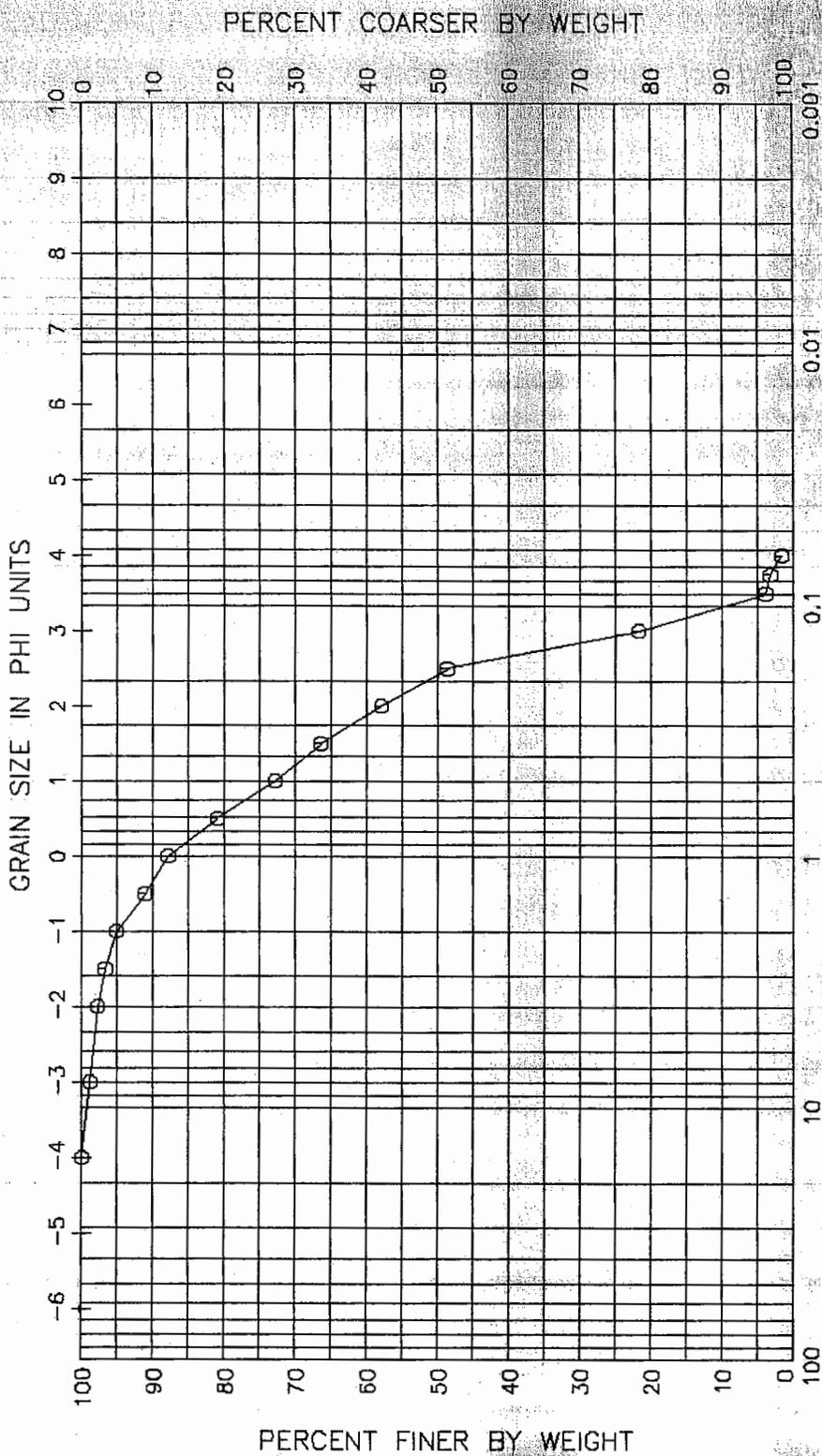


GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 51#6 O	-44.8	13.0	SP	0.14	0.13	0.66

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USDS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 51#7 0	-47.6	15.8	SP	0.29	0.19	1.50

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH