

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/17/99

SAMPLE NO.: VC99 48#1
 SAMPLE ELEV. (FT. NGVD): -29.4
 SAMPLE DEPTH (FT.): 0.70
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 199.52
 SAMPLE WEIGHT AFTER WASH (GRAMS): 194.33

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	0.00	0.00	100.00
5	-2.00	4.000	1.04	0.52	99.48
7	-1.50	2.800	3.01	1.51	98.49
10	-1.00	2.000	5.97	2.99	97.01
14	-0.50	1.400	25.34	12.70	87.30
18	0.00	1.000	33.42	16.75	83.25
25	0.50	0.710	50.70	25.41	74.59
35	1.00	0.500	91.54	45.88	54.12
45	1.50	0.355	127.16	63.73	36.27
60	2.00	0.250	143.71	72.03	27.97
80	2.50	0.180	152.19	76.28	23.72
120	3.00	0.125	165.98	83.19	16.81
170	3.50	0.090	192.39	96.43	3.57
200	3.75	0.075	194.11	97.29	2.71
230	4.00	0.063	196.77	98.62	1.38
PAN			199.50	99.99	0.01

PHI (5): -0.90 PHI (16): -0.09 PHI (25): 0.48
 PHI (50): 1.12 PHI (75): 2.35 PHI (84): 3.03
 PHI (95): 3.45

SIEVE LOSS (g): 0.02 SILT/CLAY: 2.71%
 SKEWNESS: 0.102 KURTOSIS: 0.950

GRAPHIC METHOD
 MEAN (PHI): 1.32 SORTING: 1.56
 MEAN (mm): 0.40 MEDIAN (mm): 0.46
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 1.23 SORTING: 1.34
 MEAN (mm): 0.43

DATA FILE NAME: VC99-48#1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/17/99

SAMPLE NO.: VC99 48#2
SAMPLE ELEV. (FT. NGVD): -31.3
SAMPLE DEPTH (FT.): 2.60
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 273.82
SAMPLE WEIGHT AFTER WASH (GRAMS): 269.82

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	1.97	0.72	99.28
7	-1.50	2.800	3.96	1.45	98.55
10	-1.00	2.000	5.97	2.18	97.82
14	-0.50	1.400	10.08	3.68	96.32
18	0.00	1.000	14.16	5.17	94.83
25	0.50	0.710	17.80	6.50	93.50
35	1.00	0.500	21.84	7.98	92.02
45	1.50	0.355	26.69	9.75	90.25
60	2.00	0.250	64.91	23.71	76.29
80	2.50	0.180	151.36	55.28	44.72
120	3.00	0.125	185.47	67.73	32.27
170	3.50	0.090	267.45	97.67	2.33
200	3.75	0.075	269.33	98.36	1.64
230	4.00	0.063	271.70	99.23	0.77
PAN			273.86	100.01	-0.01

PHI(5): -0.06 PHI(16): 1.72 PHI(25): 2.02
PHI(50): 2.42 PHI(75): 3.12 PHI(84): 3.27
PHI(95): 3.46

SIEVE LOSS(g): -0.04 SILT/CLAY: 1.64%
SKEWNESS: -0.927 KURTOSIS: 1.308

GRAPHIC METHOD

MEAN (PHI): 2.16 SORTING: 0.77
MEAN (mm): 0.22 MEDIAN (mm): 0.19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.33 SORTING: 1.05
MEAN (mm): 0.20

DATA FILE NAME: VC99-48#2.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6-30-99

SAMPLE NO.: VC99 48#3
SAMPLE ELEV. (FT. NGVD): -33.9
SAMPLE DEPTH (FT.): 5.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 297.61
SAMPLE WEIGHT AFTER WASH (GRAMS): 295.70

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	14.98	5.03	94.97
5	-2.00	4.000	28.18	9.47	90.53
7	-1.50	2.800	41.38	13.90	86.10
10	-1.00	2.000	60.64	20.38	79.62
14	-0.50	1.400	98.83	33.21	66.79
18	0.00	1.000	130.32	43.79	56.21
25	0.50	0.710	173.33	58.24	41.76
35	1.00	0.500	221.38	74.39	25.61
45	1.50	0.355	243.12	81.69	18.31
60	2.00	0.250	257.02	86.36	13.64
80	2.50	0.180	267.99	90.05	9.95
120	3.00	0.125	285.03	95.77	4.23
170	3.50	0.090	286.50	96.27	3.73
200	3.75	0.075	295.50	99.29	0.71
230	4.00	0.063	296.64	99.68	0.32
PAN			297.61	100.00	0.00

PHI (5): -3.01 PHI (16): -1.34 PHI (25): -0.82
PHI (50): 0.21 PHI (75): 1.04 PHI (84): 1.75
PHI (95): 2.93

SIEVE LOSS (g): 0.00 SILT/CLAY: 0.71%
SKEWNESS: -0.163 KURTOSIS: 1.307

GRAPHIC METHOD

MEAN (PHI): 0.11 SORTING: 1.54
MEAN (mm): 0.93 MEDIAN (mm): 0.86

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.14 SORTING: 1.64
MEAN (mm): 0.91

DATA FILE NAME: VC99-48#3.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6-30-99

SAMPLE NO.: VC99 48#4
SAMPLE ELEV. (FT. NGVD): -36.9
SAMPLE DEPTH (FT.): 8.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 284.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 279.82

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	1.23	0.43	99.57
5	-2.00	4.000	4.54	1.60	98.40
7	-1.50	2.800	7.61	2.68	97.32
10	-1.00	2.000	11.18	3.94	96.06
14	-0.50	1.400	23.90	8.42	91.58
18	0.00	1.000	32.78	11.54	88.46
25	0.50	0.710	51.00	17.96	82.04
35	1.00	0.500	90.80	31.97	68.03
45	1.50	0.355	134.86	47.49	52.51
60	2.00	0.250	178.32	62.79	37.21
80	2.50	0.180	208.37	73.37	26.63
120	3.00	0.125	256.03	90.15	9.85
170	3.50	0.090	274.25	96.57	3.43
200	3.75	0.075	279.41	98.38	1.62
230	4.00	0.063	281.73	99.20	0.80
PAN			283.99	100.00	0.00

PHI (5): -0.88 PHI (16): 0.35 PHI (25): 0.75
PHI (50): 1.58 PHI (75): 2.55 PHI (84): 2.82
PHI (95): 3.38

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.62%
SKEWNESS: -0.270 KURTOSIS: 0.971

GRAPHIC METHOD

MEAN (PHI): 1.45 SORTING: 1.23
MEAN (mm): 0.37 MEDIAN (mm): 0.33
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.48 SORTING: 1.30
MEAN (mm): 0.36

DATA FILE NAME: VC99-48#4.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6-30-99

SAMPLE NO.: VC99 48#5
SAMPLE ELEV. (FT. NGVD): -39.3
SAMPLE DEPTH (FT.): 10.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 256.16
SAMPLE WEIGHT AFTER WASH (GRAMS): 253.56

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	0.20	0.08	99.92
7	-1.50	2.800	0.81	0.32	99.68
10	-1.00	2.000	1.55	0.61	99.39
14	-0.50	1.400	8.82	3.44	96.56
18	0.00	1.000	14.85	5.80	94.20
25	0.50	0.710	36.27	14.16	85.84
35	1.00	0.500	64.86	25.32	74.68
45	1.50	0.355	92.72	36.20	63.80
60	2.00	0.250	129.45	50.53	49.47
80	2.50	0.180	208.20	81.28	18.72
120	3.00	0.125	252.36	98.52	1.48
170	3.50	0.090	253.21	98.85	1.15
200	3.75	0.075	253.38	98.91	1.09
230	4.00	0.063	254.77	99.46	0.54
PAN			256.14	99.99	0.01

PHI (5): -0.17 PHI (16): 0.58 PHI (25): 0.99
PHI (50): 1.98 PHI (75): 2.40 PHI (84): 2.58
PHI (95): 2.90

SIEVE LOSS (g): 0.02 SILT/CLAY: 1.09%
SKEWNESS: -0.618 KURTOSIS: 0.890

GRAPHIC METHOD
MEAN (PHI): 1.57 SORTING: 1.00
MEAN (mm): 0.34 MEDIAN (mm): 0.25
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
MEAN (PHI): 1.66 SORTING: 0.97
MEAN (mm): 0.32

DATA FILE NAME: VC99-48#5.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/17/99

SAMPLE NO.: VC99-48 #6
SAMPLE ELEV. (FT. NGVD): -41.4
SAMPLE DEPTH (FT.): 12.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 283.70
SAMPLE WEIGHT AFTER WASH (GRAMS): 280.95

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	1.69	0.60	99.40
7	-1.50	2.800	2.79	0.98	99.02
10	-1.00	2.000	3.97	1.40	98.60
14	-0.50	1.400	6.52	2.30	97.70
18	0.00	1.000	10.73	3.78	96.22
25	0.50	0.710	18.48	6.51	93.49
35	1.00	0.500	30.53	10.76	89.24
45	1.50	0.355	48.19	16.99	83.01
60	2.00	0.250	91.57	32.28	67.72
80	2.50	0.180	156.33	55.10	44.90
120	3.00	0.125	230.89	81.39	18.61
170	3.50	0.090	278.81	98.28	1.72
200	3.75	0.075	280.15	98.75	1.25
230	4.00	0.063	281.96	99.39	0.61
PAN			283.66	99.99	0.01

PHI (5): 0.22 PHI (16): 1.42 PHI (25): 1.76
PHI (50): 2.39 PHI (75): 2.88 PHI (84): 3.08
PHI (95): 3.40

SIEVE LOSS (g): 0.04 SILT/CLAY: 1.25%
SKEWNESS: -0.694 KURTOSIS: 1.167

GRAPHIC METHOD

MEAN (PHI): 2.10 SORTING: 0.83
MEAN (mm): 0.23 MEDIAN (mm): 0.19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.19 SORTING: 0.99
MEAN (mm): 0.22

DATA FILE NAME: VC99-48#6.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/17/99

SAMPLE NO.: VC99-48 #7
SAMPLE ELEV. (FT. NGVD): -44.2
SAMPLE DEPTH (FT.): 15.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 278.84
SAMPLE WEIGHT AFTER WASH (GRAMS): 270.91

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	1.86	0.67	99.33
5	-2.00	4.000	6.34	2.27	97.73
7	-1.50	2.800	11.21	4.02	95.98
10	-1.00	2.000	19.41	6.96	93.04
14	-0.50	1.400	31.16	11.17	88.83
18	0.00	1.000	44.26	15.87	84.13
25	0.50	0.710	61.88	22.19	77.81
35	1.00	0.500	89.81	32.21	67.79
45	1.50	0.355	117.22	42.04	57.96
60	2.00	0.250	141.66	50.80	49.20
80	2.50	0.180	170.68	61.21	38.79
120	3.00	0.125	230.09	82.52	17.48
170	3.50	0.090	268.61	96.33	3.67
200	3.75	0.075	270.62	97.05	2.95
230	4.00	0.063	274.79	98.55	1.45
PAN			278.83	100.00	0.00

PHI (5): -1.33 PHI (16): 0.01 PHI (25): 0.64
PHI (50): 1.95 PHI (75): 2.82 PHI (84): 3.05
PHI (95): 3.45

SIEVE LOSS (g): 0.01 SILT/CLAY: 2.95%
SKEWNESS: -0.588 KURTOSIS: 0.898

GRAPHIC METHOD

MEAN (PHI): 1.43 SORTING: 1.52
MEAN (mm): 0.37 MEDIAN (mm): 0.26

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.57 SORTING: 1.52
MEAN (mm): 0.34

DATA FILE NAME: VC99-48#7.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 7-20-99

SAMPLE NO.: VC99 48#8
SAMPLE ELEV. (FT. NGVD): -33.2
SAMPLE DEPTH (FT.): 4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 250.20
SAMPLE WEIGHT AFTER WASH (GRAMS): 247.02

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	0.18	0.07	99.93
7	-1.50	2.800	0.81	0.32	99.68
10	-1.00	2.000	1.67	0.67	99.33
14	-0.50	1.400	2.96	1.18	98.82
18	0.00	1.000	4.46	1.78	98.22
25	0.50	0.710	6.43	2.57	97.43
35	1.00	0.500	9.39	3.75	96.25
45	1.50	0.355	12.55	5.02	94.98
60	2.00	0.250	19.46	7.78	92.22
80	2.50	0.180	42.08	16.82	83.18
120	3.00	0.125	151.16	60.42	39.58
170	3.50	0.090	187.52	74.95	25.05
200	3.75	0.075	246.51	98.53	1.47
230	4.00	0.063	248.50	99.32	0.68
PAN			250.19	100.00	0.00

PHI (5): 1.49 PHI (16): 2.45 PHI (25): 2.59
PHI (50): 2.88 PHI (75): 3.50 PHI (84): 3.60
PHI (95): 3.71

SIEVE LOSS (g): 0.01 SILT/CLAY: 1.47%
SKEWNESS: -0.486 KURTOSIS: 1.003

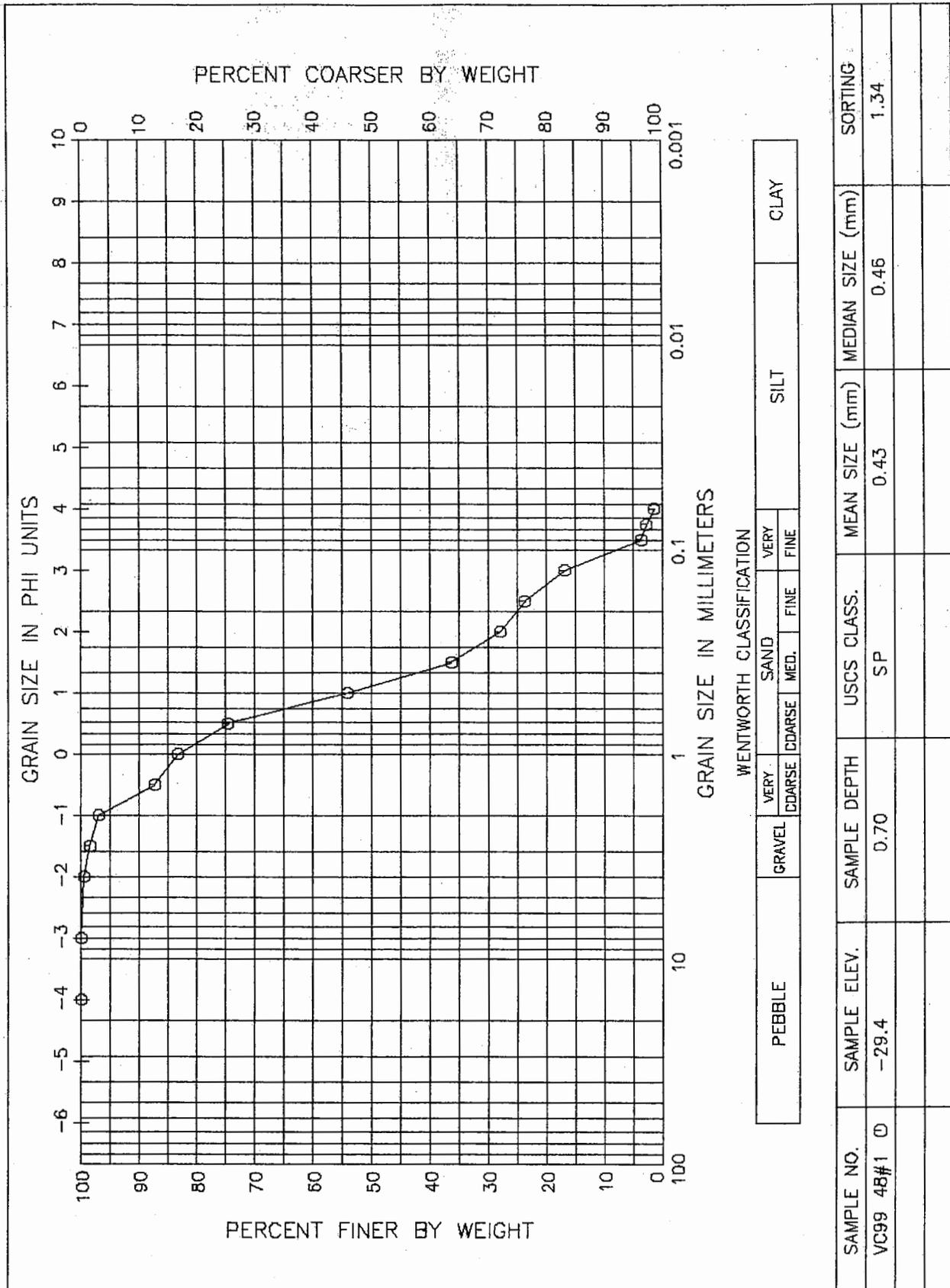
GRAPHIC METHOD

MEAN (PHI): 2.83 SORTING: 0.57
MEAN (mm): 0.14 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

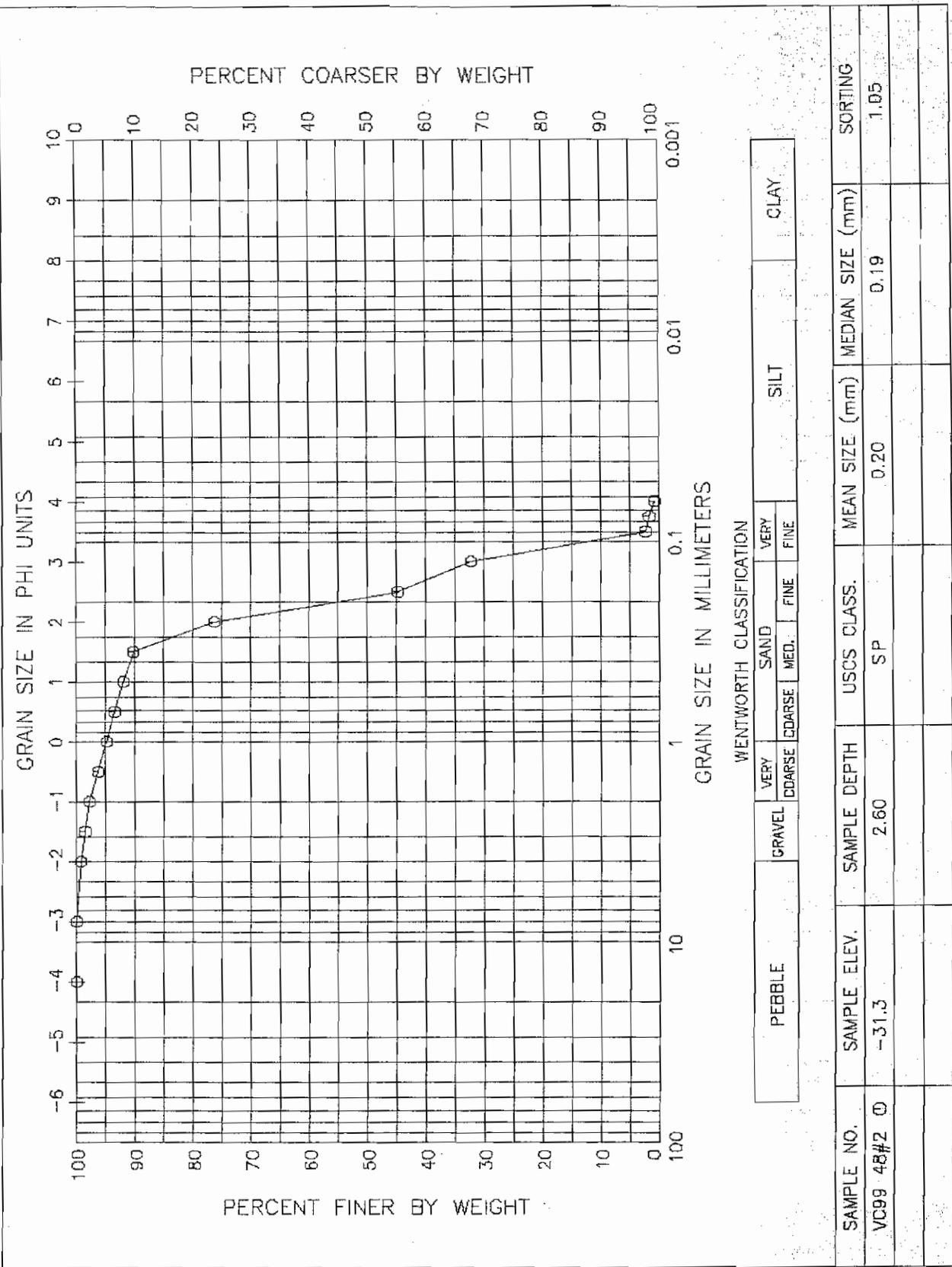
MOMENT METHOD

MEAN (PHI): 2.84 SORTING: 0.80
MEAN (mm): 0.14

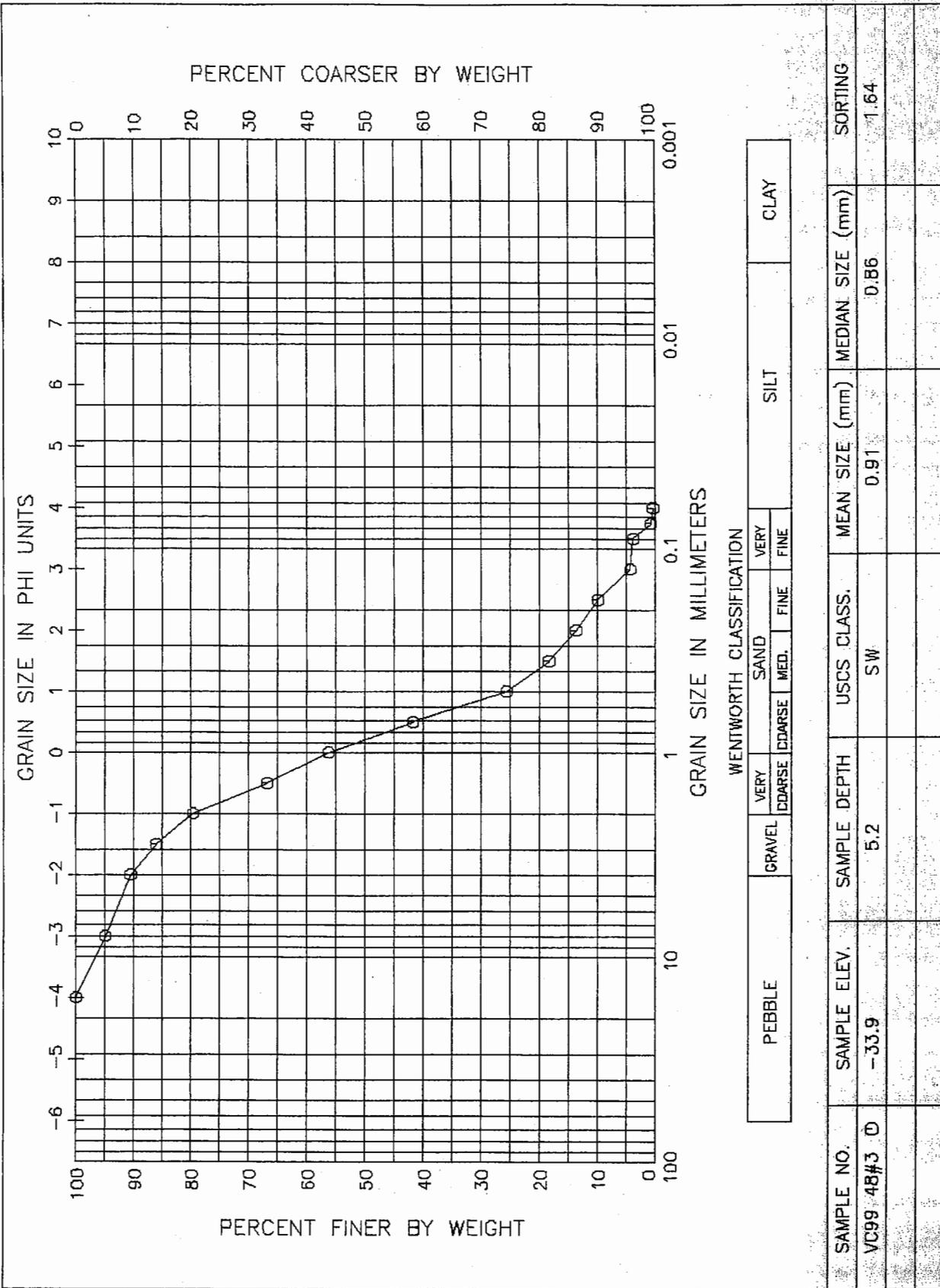
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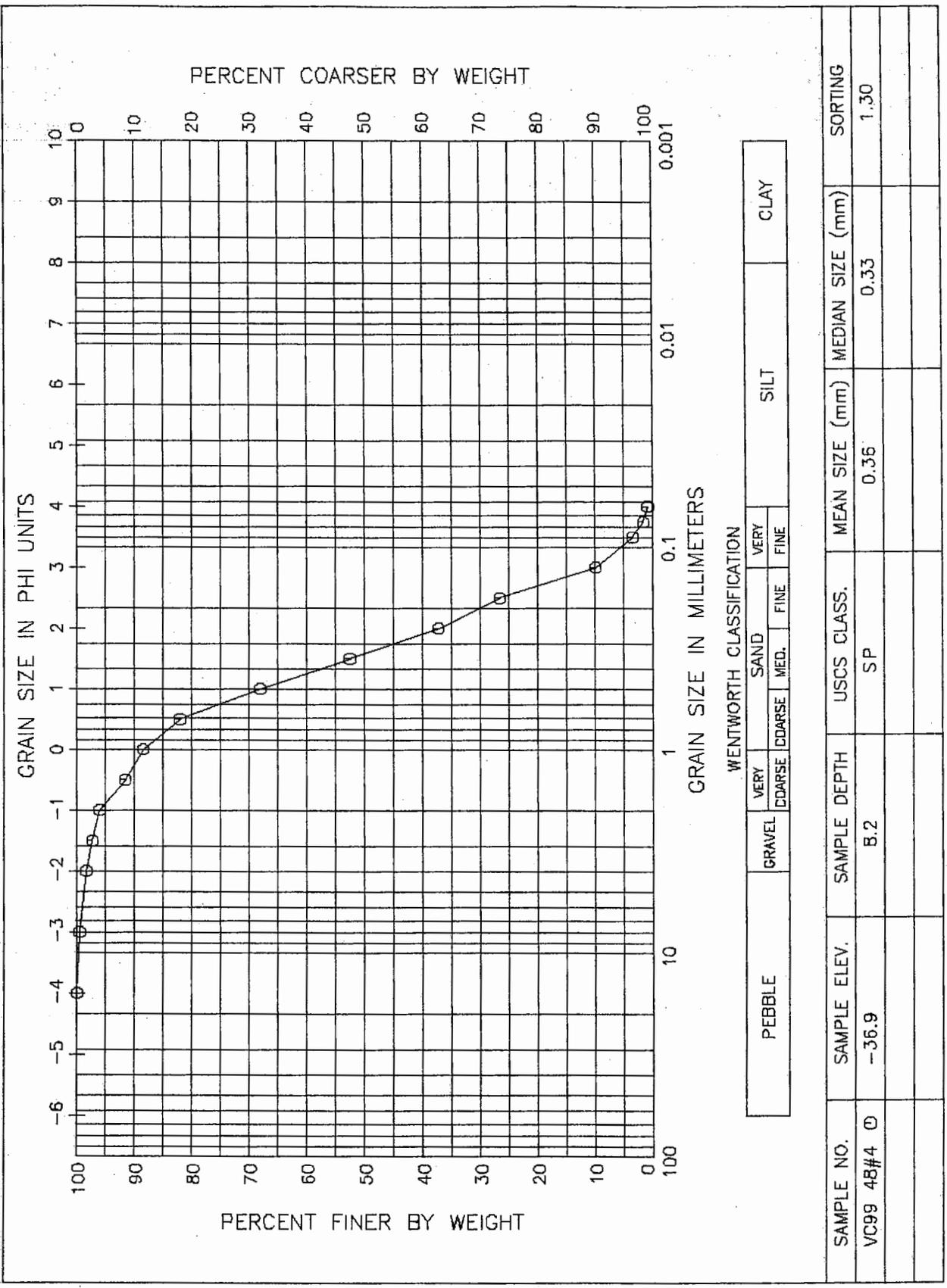
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



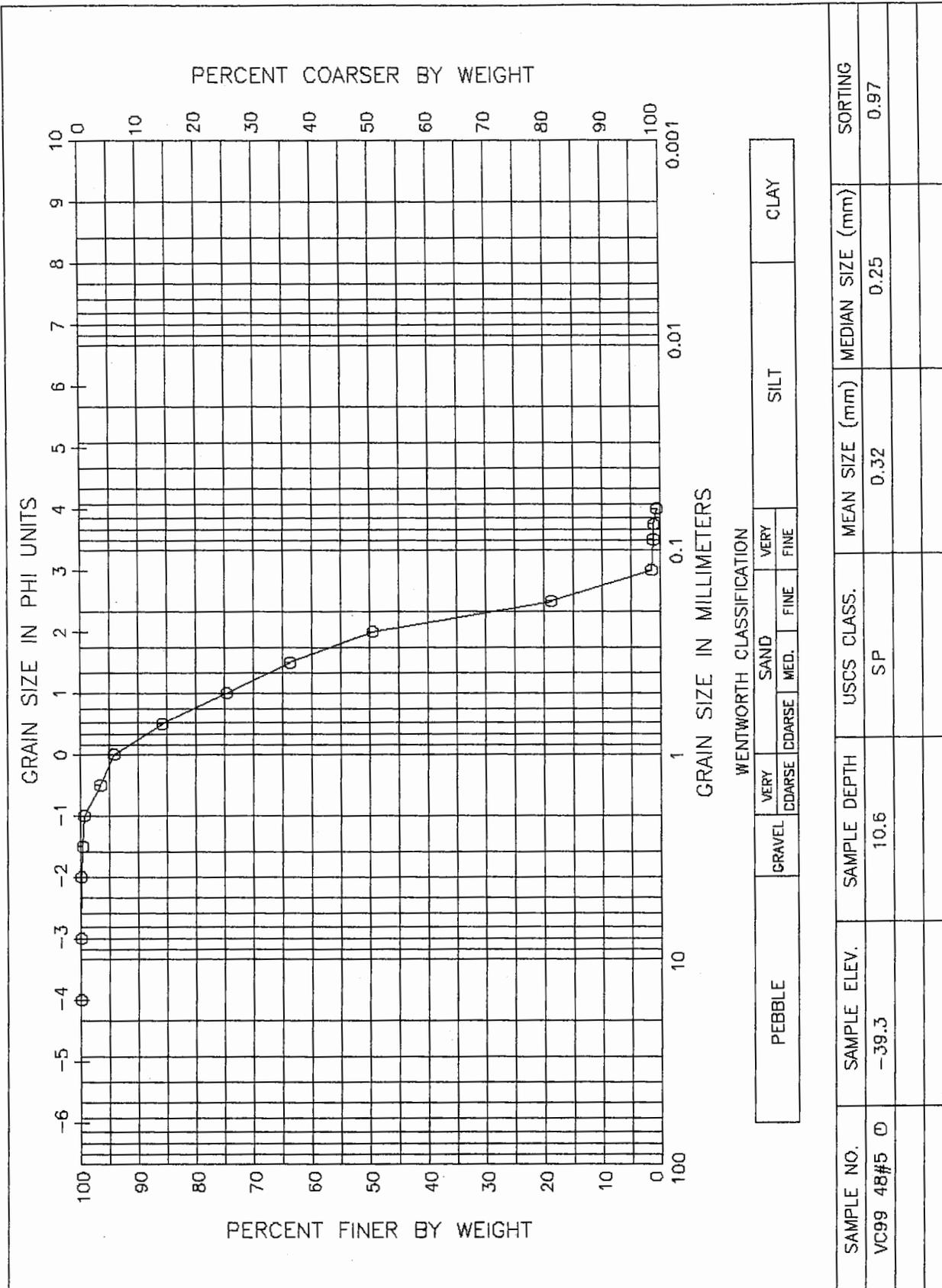
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



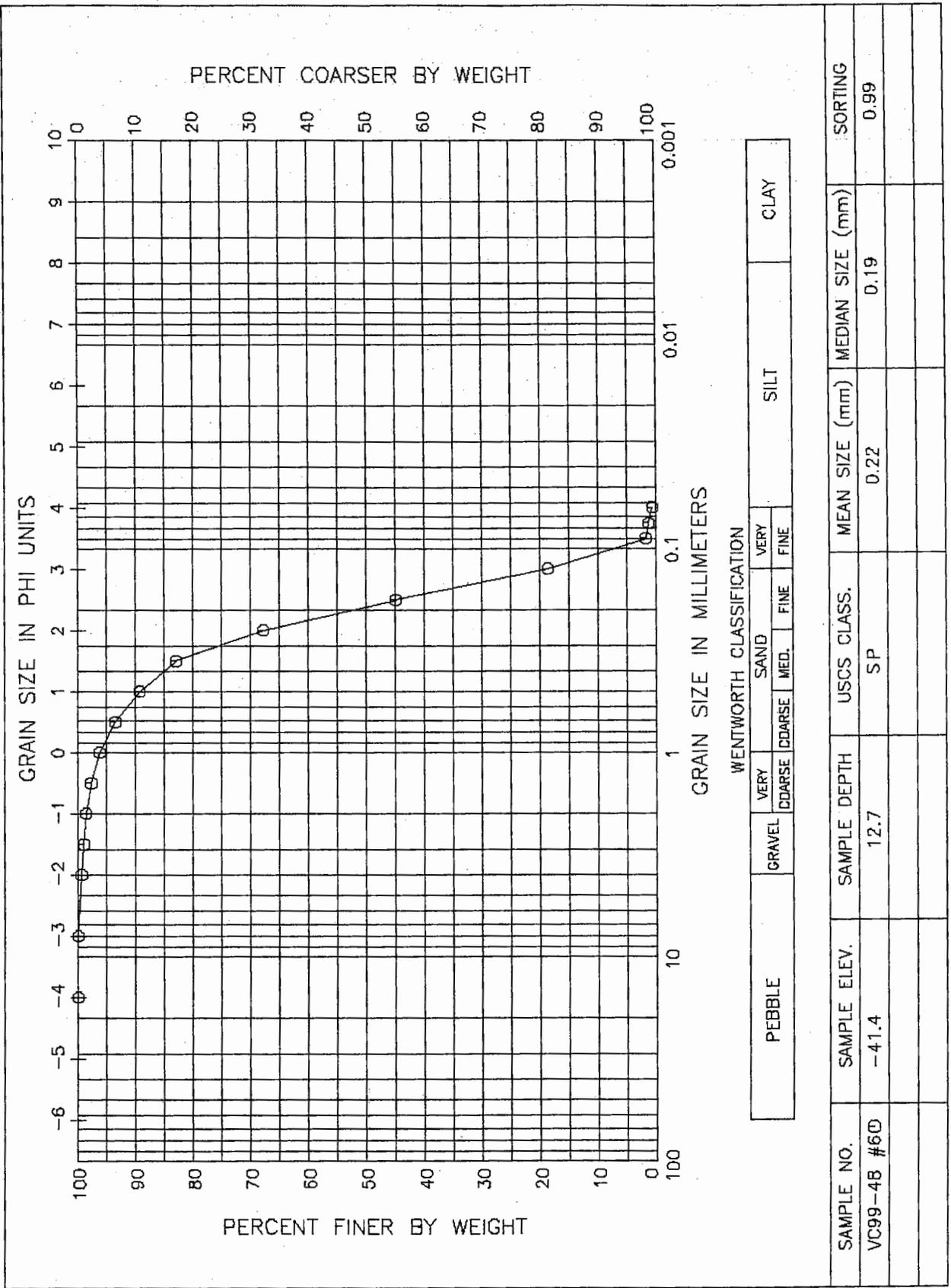
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



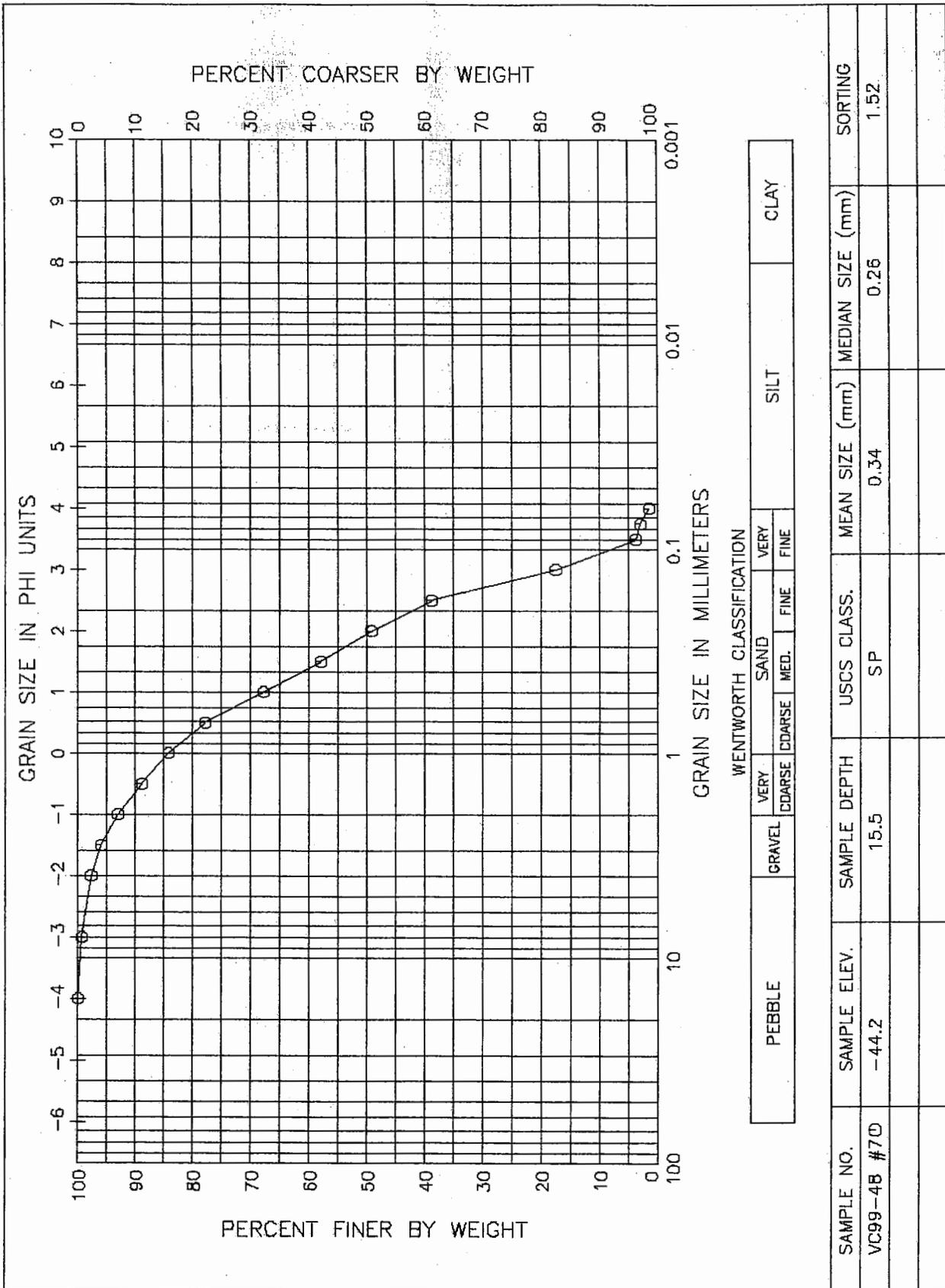
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



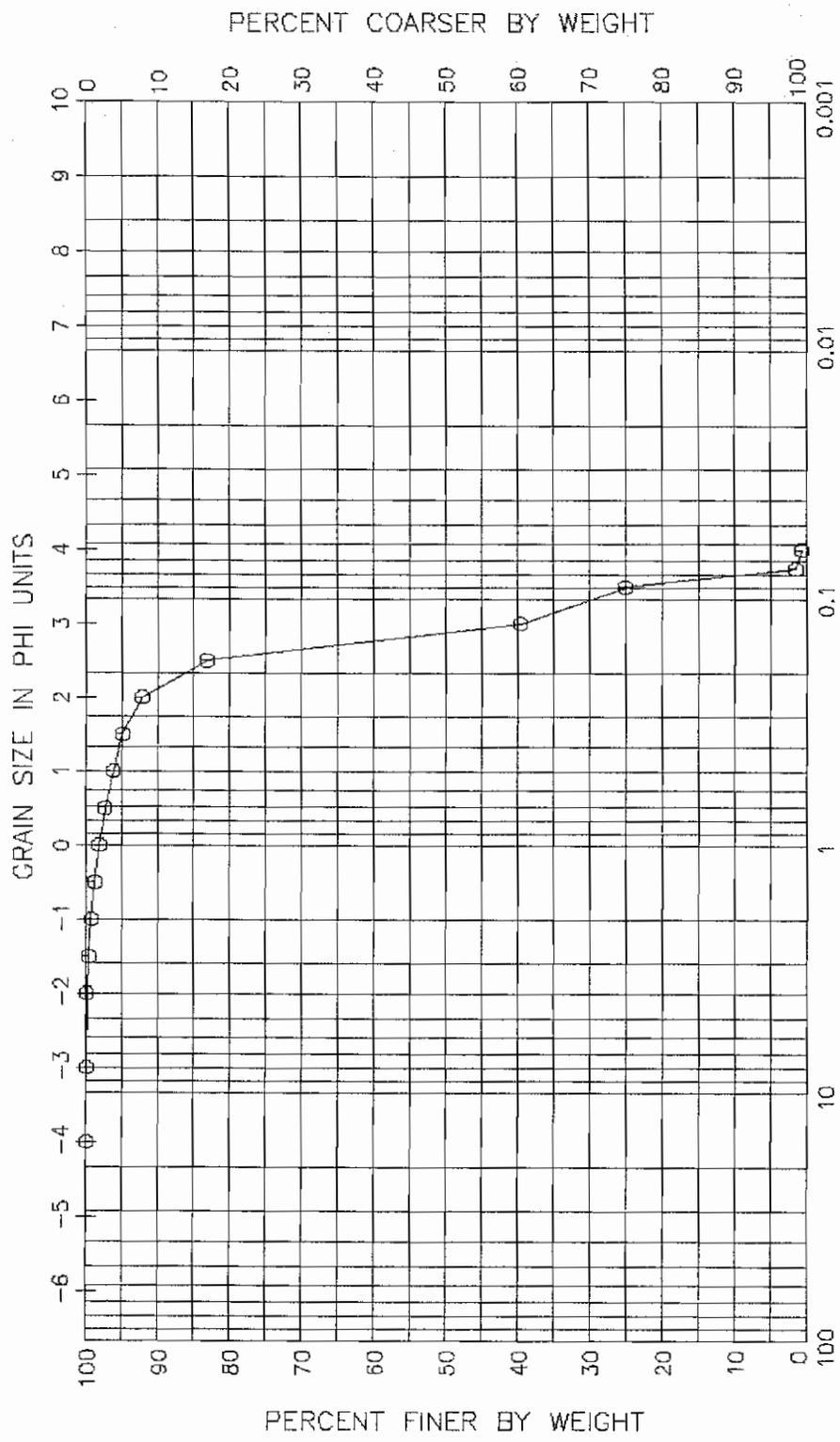
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



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
VC99-4B#B 0	-33.2	4.5	SP	0.14	0.14	0.80

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH