

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 39#1
SAMPLE ELEV. (FT. NGVD): -37.2
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 201.27
SAMPLE WEIGHT AFTER WASH (GRAMS): 198.86

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	0.49	0.24	99.76
7	-1.50	2.800	1.07	0.53	99.47
10	-1.00	2.000	2.32	1.15	98.85
14	-0.50	1.400	3.92	1.95	98.05
18	0.00	1.000	4.94	2.45	97.55
25	0.50	0.710	5.82	2.89	97.11
35	1.00	0.500	6.77	3.36	96.64
45	1.50	0.355	8.37	4.16	95.84
60	2.00	0.250	14.95	7.43	92.57
80	2.50	0.180	49.56	24.62	75.38
120	3.00	0.125	143.02	71.06	28.94
170	3.50	0.090	196.84	97.80	2.20
200	3.75	0.075	198.09	98.42	1.58
230	4.00	0.063	199.71	99.22	0.78
PAN			201.26	100.00	0.00

PHI(5): 1.63 PHI(16): 2.25 PHI(25): 2.50
PHI(50): 2.77 PHI(75): 3.07 PHI(84): 3.24
PHI(95): 3.45

SIEVE LOSS (g): 0.01 SILT/CLAY: 1.58%
SKEWNESS: -0.474 KURTOSIS: 1.309

GRAPHIC METHOD

MEAN (PHI): 2.67 SORTING: 0.50
MEAN (mm) : 0.16 MEDIAN (mm): 0.15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.65 SORTING: 0.76
MEAN (mm) : 0.16

DATA FILE NAME: VC99-39#1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 39#2
SAMPLE ELEV. (FT. NGVD): -39.6
SAMPLE DEPTH (FT.): 3.4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 232.59
SAMPLE WEIGHT AFTER WASH (GRAMS): 230.00

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	0.00	0.00	100.00
5	-2.00	4.000	0.17	0.07	99.93
7	-1.50	2.800	0.38	0.16	99.84
10	-1.00	2.000	1.01	0.43	99.57
14	-0.50	1.400	1.97	0.85	99.15
18	0.00	1.000	3.19	1.37	98.63
25	0.50	0.710	5.65	2.43	97.57
35	1.00	0.500	9.36	4.02	95.98
45	1.50	0.355	14.92	6.41	93.59
60	2.00	0.250	30.98	13.32	86.68
80	2.50	0.180	79.91	34.36	65.64
120	3.00	0.125	184.05	79.13	20.87
170	3.50	0.090	228.68	98.32	1.68
200	3.75	0.075	229.57	98.70	1.30
230	4.00	0.063	231.07	99.34	0.66
PAN			232.56	99.99	0.01

PHI (5): 1.20 PHI (16): 2.06 PHI (25): 2.28
PHI (50): 2.67 PHI (75): 2.95 PHI (84): 3.13
PHI (95): 3.41

SIEVE LOSS (g): 0.03 SILT/CLAY: 1.30%
SKEWNESS: -0.688 KURTOSIS: 1.339

GRAPHIC METHOD

MEAN (PHI): 2.50 SORTING: 0.53
MEAN (mm) : 0.18 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.54 SORTING: 0.71
MEAN (mm) : 0.17

DATA FILE NAME: VC99-39#2.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 39#3
 SAMPLE ELEV. (FT. NGVD): -40.2
 SAMPLE DEPTH (FT.): 4.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 174.29
 SAMPLE WEIGHT AFTER WASH (GRAMS): 171.82

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	5.64	3.24	96.76
5	-2.00	4.000	13.69	7.85	92.15
7	-1.50	2.800	19.22	11.03	88.97
10	-1.00	2.000	25.38	14.56	85.44
14	-0.50	1.400	34.22	19.63	80.37
18	0.00	1.000	42.26	24.25	75.75
25	0.50	0.710	51.39	29.49	70.51
35	1.00	0.500	62.85	36.06	63.94
45	1.50	0.355	72.13	41.39	58.61
60	2.00	0.250	85.14	48.85	51.15
80	2.50	0.180	108.35	62.17	37.83
120	3.00	0.125	150.46	86.33	13.67
170	3.50	0.090	170.48	97.81	2.19
200	3.75	0.075	171.58	98.45	1.55
230	4.00	0.063	172.96	99.24	0.76
PAN			174.29	100.00	0.00

PHI (5): -2.62 PHI (16): -0.86 PHI (25): 0.07
 PHI (50): 2.04 PHI (75): 2.77 PHI (84): 2.95
 PHI (95): 3.38

SIEVE LOSS (g): 0.00 SILT/CLAY: 1.55%
 SKEWNESS: -0.873 KURTOSIS: 0.912

GRAPHIC METHOD
 MEAN (PHI): 0.98 SORTING: 1.91
 MEAN (mm): 0.51 MEDIAN (mm): 0.24
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 1.28 SORTING: 1.88
 MEAN (mm): 0.41

DATA FILE NAME: VC99-39#3.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
 TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 39#4
 SAMPLE ELEV. (FT. NGVD): -45.2
 SAMPLE DEPTH (FT.): 9.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 220.79
 SAMPLE WEIGHT AFTER WASH (GRAMS): 216.91

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	0.66	0.30	99.70
7	-1.50	2.800	1.38	0.63	99.37
10	-1.00	2.000	2.36	1.07	98.93
14	-0.50	1.400	3.82	1.73	98.27
18	0.00	1.000	5.15	2.33	97.67
25	0.50	0.710	6.43	2.91	97.09
35	1.00	0.500	7.99	3.62	96.38
45	1.50	0.355	10.47	4.74	95.26
60	2.00	0.250	16.15	7.31	92.69
80	2.50	0.180	37.03	16.77	83.23
120	3.00	0.125	156.48	70.87	29.13
170	3.50	0.090	215.22	97.48	2.52
200	3.75	0.075	216.29	97.96	2.04
230	4.00	0.063	218.56	98.99	1.01
PAN			220.77	99.99	0.01

PHI (5): 1.55 PHI (16): 2.46 PHI (25): 2.58
 PHI (50): 2.81 PHI (75): 3.08 PHI (84): 3.25
 PHI (95): 3.45

SIEVE LOSS (g): 0.02 SILT/CLAY: 2.04%
 SKEWNESS: -0.775 KURTOSIS: 1.555

GRAPHIC METHOD

MEAN (PHI): 2.70 SORTING: 0.39
 MEAN (mm) : 0.15 MEDIAN (mm): 0.14
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.69 SORTING: 0.76
 MEAN (mm) : 0.15

DATA FILE NAME: VC99-39#4.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: RW ON: 7/6/99

SAMPLE NO.: VC99 39#5
SAMPLE ELEV. (FT. NGVD): -51.2
SAMPLE DEPTH (FT.): 15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 251.66
SAMPLE WEIGHT AFTER WASH (GRAMS): 247.90

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	0.06	99.94
7	-1.50	2.800	0.48	0.19	99.81
10	-1.00	2.000	0.85	0.34	99.66
14	-0.50	1.400	1.40	0.56	99.44
18	0.00	1.000	1.95	0.77	99.23
25	0.50	0.710	2.56	1.02	98.98
35	1.00	0.500	3.41	1.36	98.64
45	1.50	0.355	4.81	1.91	98.09
60	2.00	0.250	9.19	3.65	96.35
80	2.50	0.180	26.96	10.71	89.29
120	3.00	0.125	138.02	54.84	45.16
170	3.50	0.090	211.65	84.10	15.90
200	3.75	0.075	247.52	98.35	1.65
230	4.00	0.063	249.59	99.18	0.82
PAN			251.66	100.00	0.00

PHI (5): 2.10 PHI (16): 2.56 PHI (25): 2.66
PHI (50): 2.95 PHI (75): 3.34 PHI (84): 3.50
PHI (95): 3.69

SIEVE LOSS (g): 0.00 SILT/CLAY: 1.65%
SKEWNESS: -0.110 KURTOSIS: 0.958

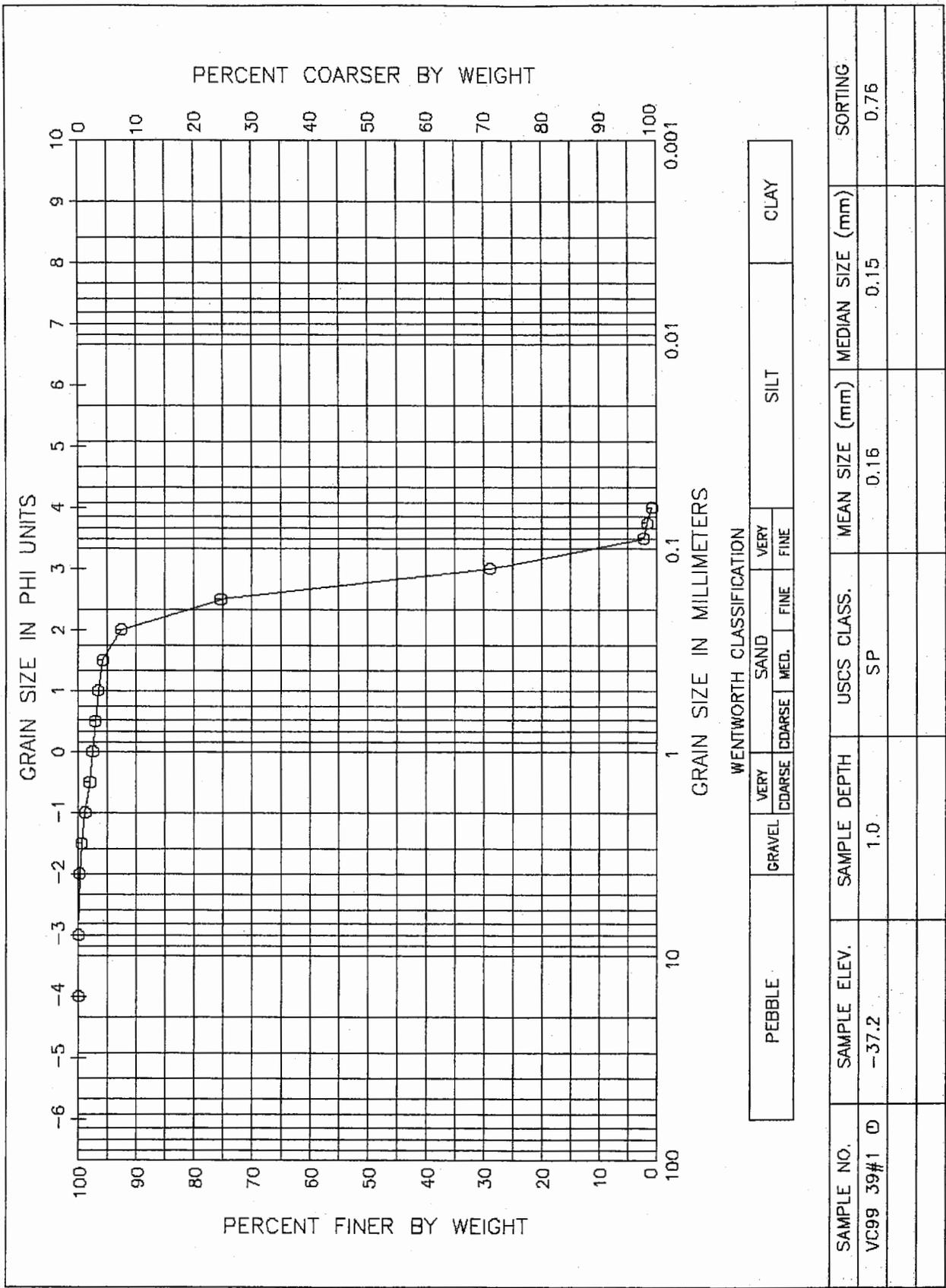
GRAPHIC METHOD

MEAN (PHI): 2.96 SORTING: 0.47
MEAN (mm): 0.13 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

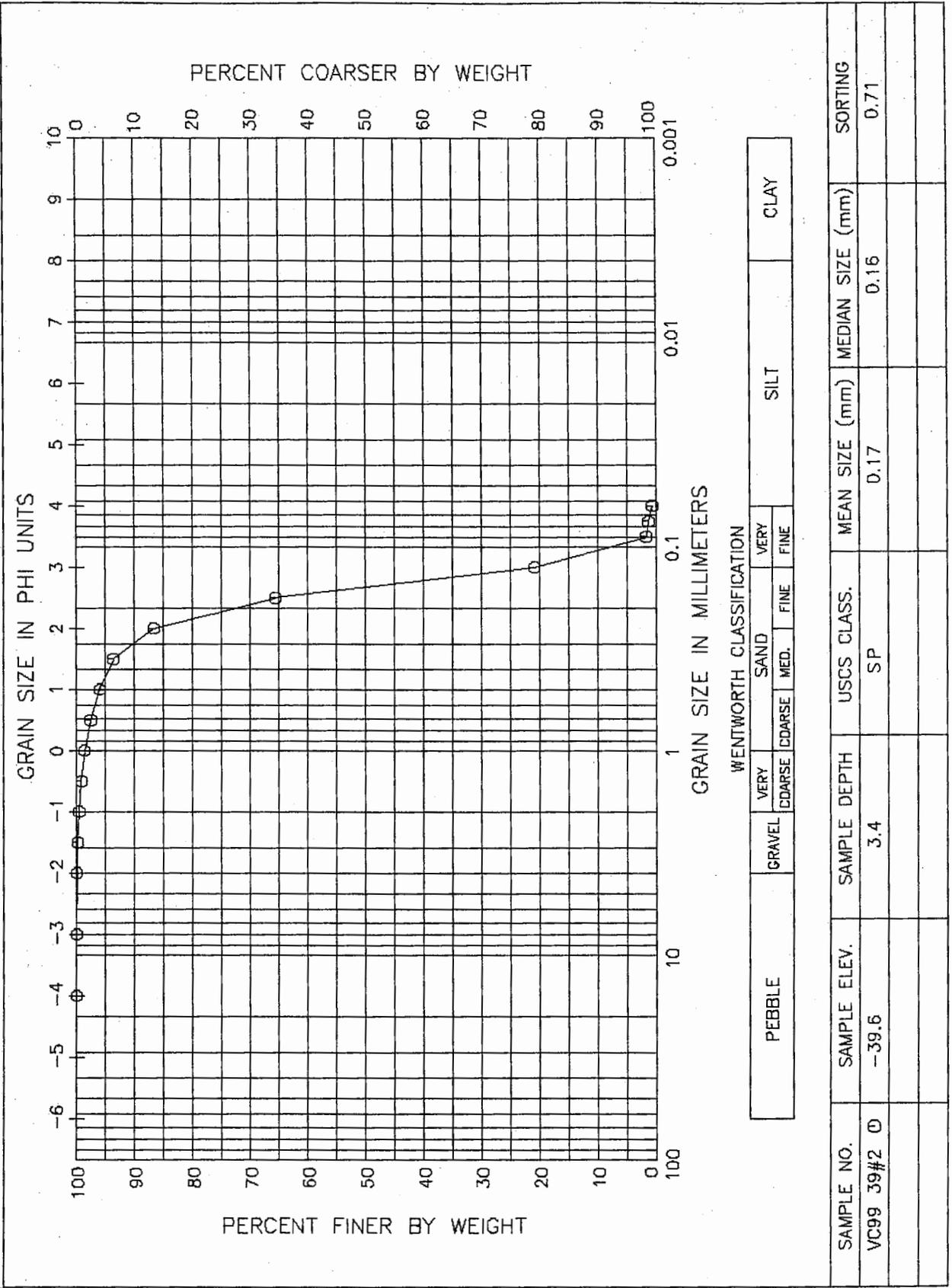
MOMENT METHOD

MEAN (PHI): 2.93 SORTING: 0.59
MEAN (mm): 0.13

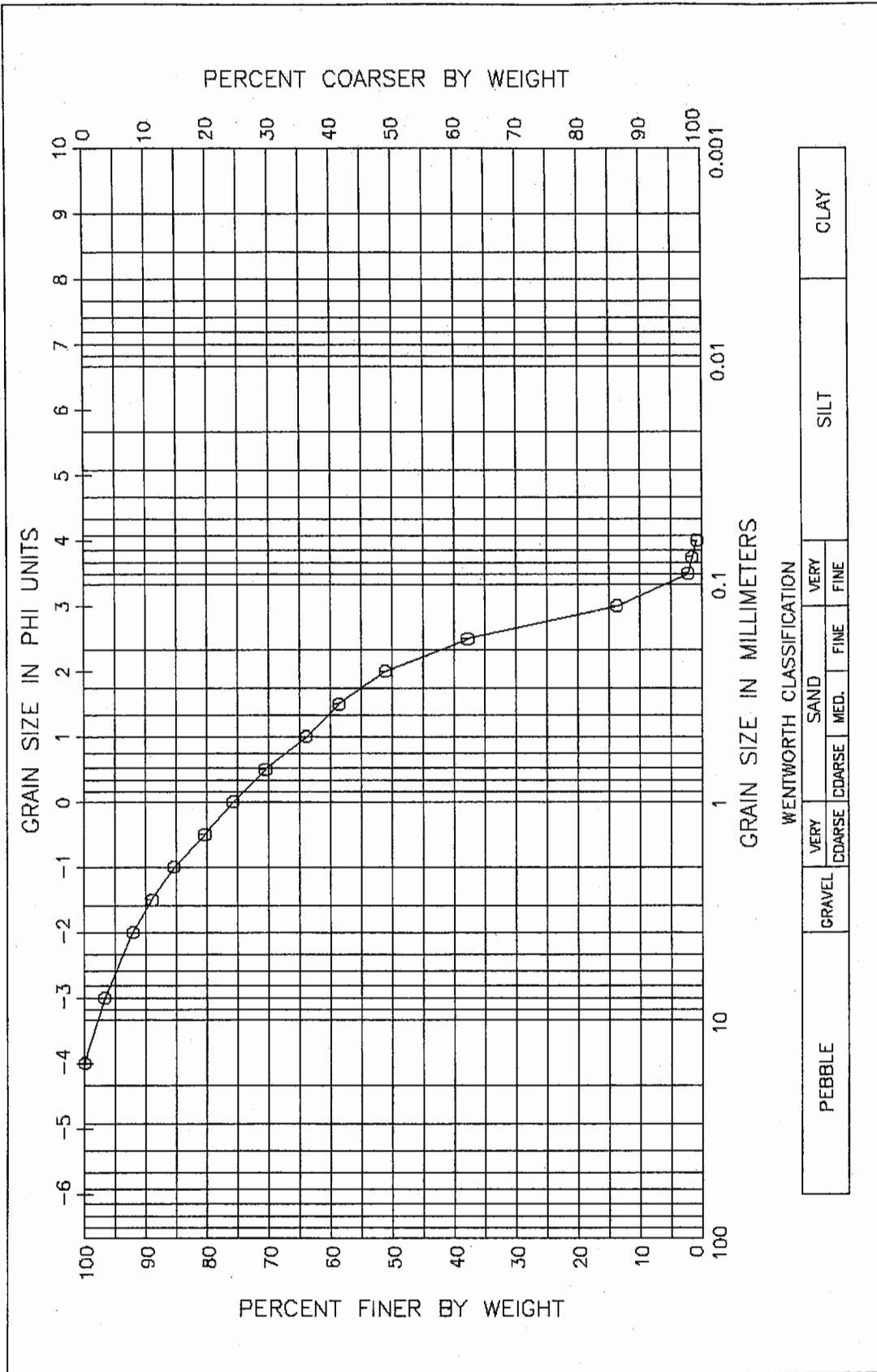
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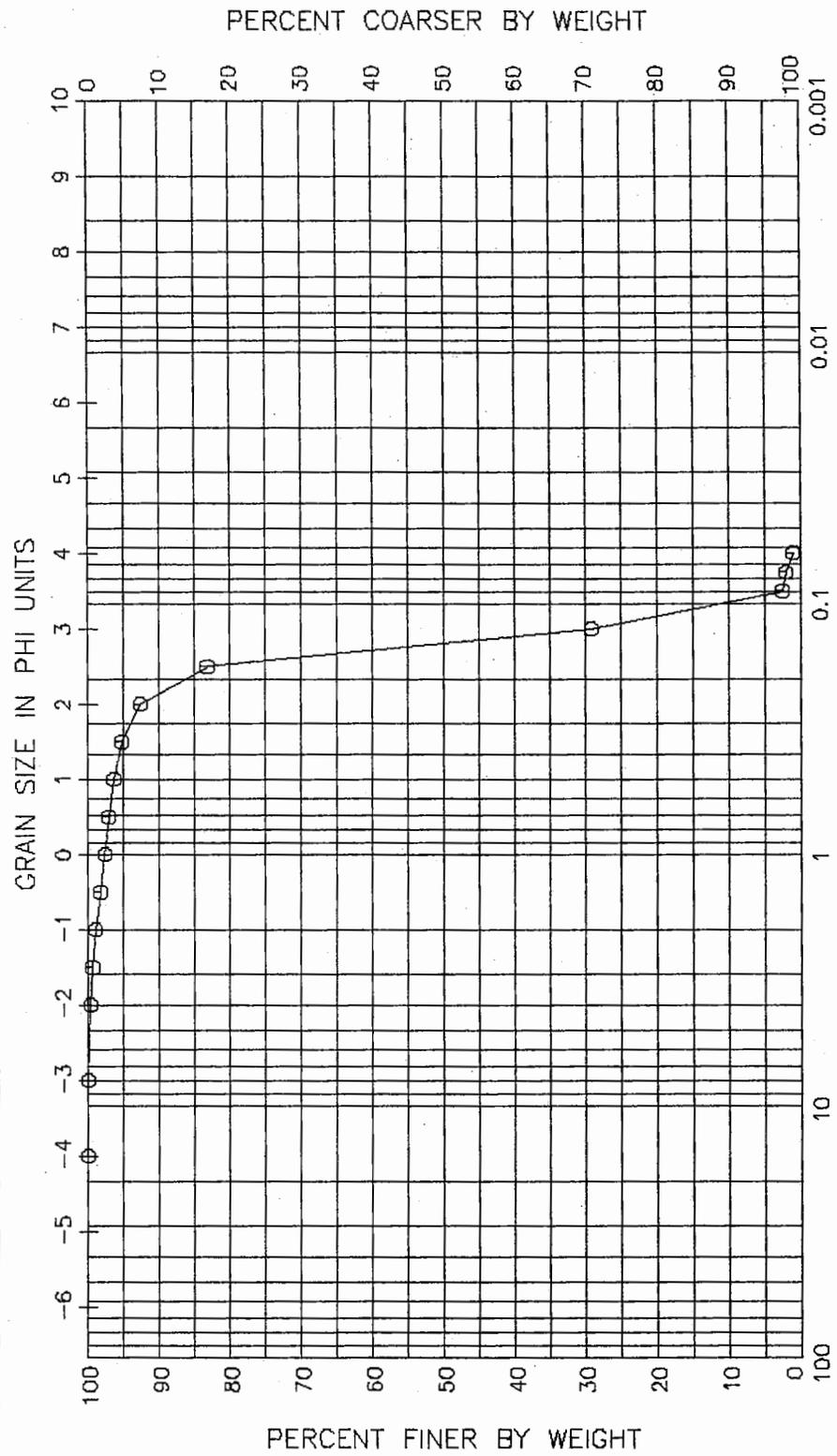
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

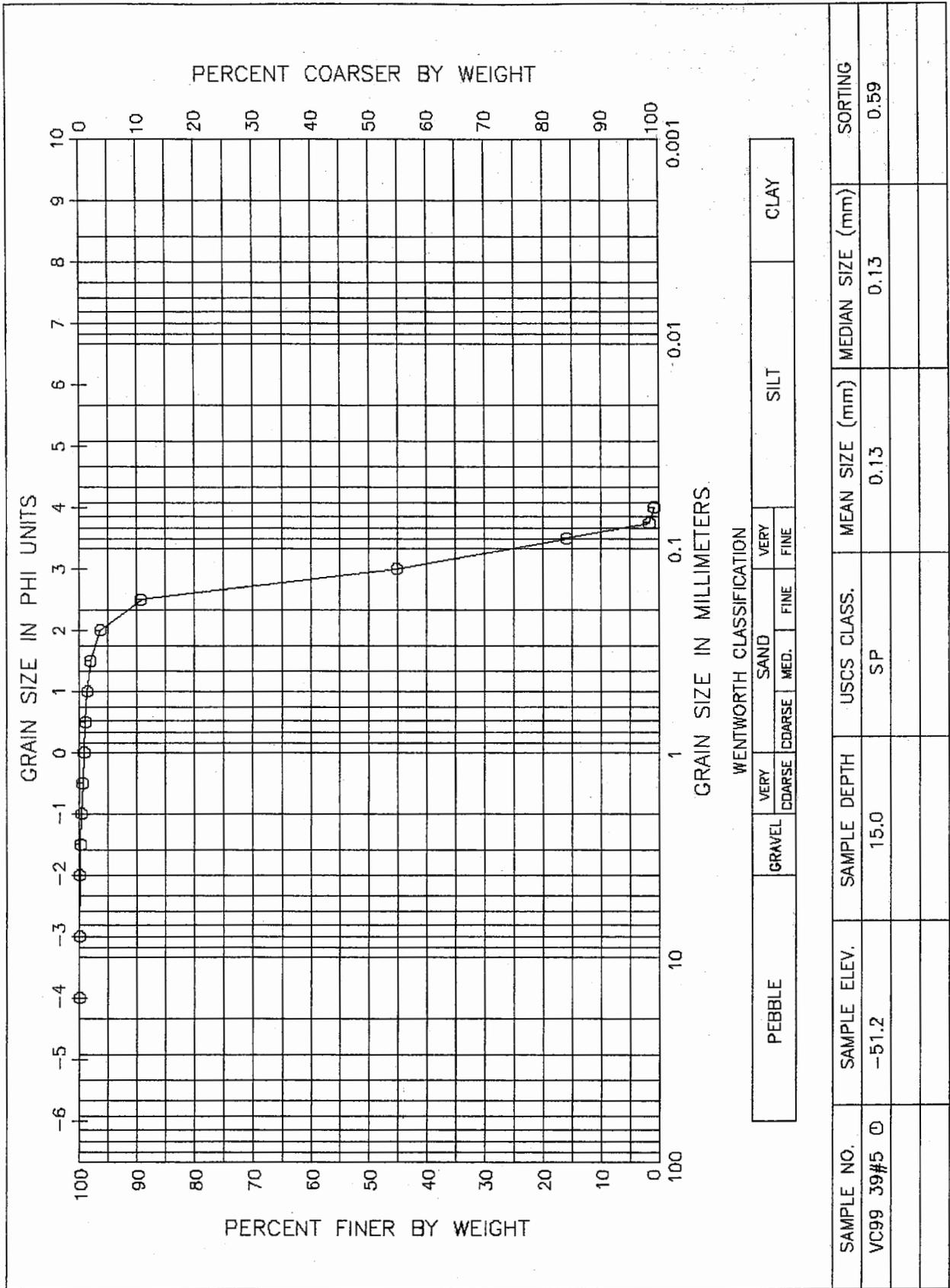


WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE	CLAY	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 39#4 0	-45.2	9.0	SP	0.15	0.14	0.76

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH