

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 5/20/1999

SAMPLE NO.: VC99 14#1

SAMPLE ELEV. (FT. NGVD): -39.2

SAMPLE DEPTH (FT.): 2.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 107.89

SAMPLE WEIGHT AFTER WASH (GRAMS): 106.30

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	0.23	0.21	99.79
7	-1.50	2.800	0.37	0.34	99.66
10	-1.00	2.000	0.55	0.51	99.49
14	-0.50	1.400	0.90	0.83	99.17
18	0.00	1.000	1.27	1.18	98.82
25	0.50	0.710	1.94	1.80	98.20
35	1.00	0.500	3.65	3.38	96.62
45	1.50	0.355	6.40	5.93	94.07
60	2.00	0.250	13.30	12.33	87.67
80	2.50	0.180	26.05	24.14	75.86
120	3.00	0.125	69.00	63.95	36.05
170	3.50	0.090	105.37	97.66	2.34
200	3.75	0.075	106.15	98.39	1.61
230	4.00	0.063	107.04	99.22	0.78
PAN			107.86	99.97	0.03

PHI (5): 1.32

PHI (16): 2.16

PHI (25): 2.51

PHI (50): 2.82

PHI (75): 3.16

PHI (84): 3.30

PHI (95): 3.46

SIEVE LOSS (g): 0.03

SILT/CLAY: 1.61%

SKEWNESS: -0.763

KURTOSIS: 1.345

GRAPHIC METHOD

MEAN (PHI): 2.61

SORTING: 0.57

MEAN (mm): 0.16

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.68

SORTING: 0.73

MEAN (mm): 0.16

DATA FILE NAME: VC99-14#1.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/20/1999

SAMPLE NO.: VC99 14#2

SAMPLE ELEV. (FT. NGVD): -42.9

SAMPLE DEPTH (FT.): 6.2

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 91.16

SAMPLE WEIGHT AFTER WASH (GRAMS): 90.06

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	0.88	0.97	99.03
5	-2.00	4.000	1.64	1.80	98.20
7	-1.50	2.800	2.35	2.58	97.42
10	-1.00	2.000	3.45	3.78	96.22
14	-0.50	1.400	5.71	6.26	93.74
18	0.00	1.000	9.69	10.63	89.37
25	0.50	0.710	16.36	17.95	82.05
35	1.00	0.500	27.81	30.51	69.49
45	1.50	0.355	35.19	38.60	61.40
60	2.00	0.250	42.48	46.60	53.40
80	2.50	0.180	51.11	56.07	43.93
120	3.00	0.125	73.36	80.47	19.53
170	3.50	0.090	89.72	98.42	1.58
200	3.75	0.075	89.99	98.72	1.28
230	4.00	0.063	90.61	99.40	0.60
PAN			91.16	100.00	0.00

PHI (5): -0.75

PHI (16): 0.37

PHI (25): 0.78

PHI (50): 2.18

PHI (75): 2.89

PHI (84): 3.10

PHI (95): 3.40

SIEVE LOSS (g): 0.00

SILT/CLAY: 1.28%

SKEWNESS: -0.626

KURTOSIS: 0.809

GRAPHIC METHOD

MEAN (PHI): 1.66

SORTING: 1.37

MEAN (mm): 0.32

MEDIAN (mm): 0.22

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.76

SORTING: 1.41

MEAN (mm): 0.30

DATA FILE NAME: VC99-14#2.TAB

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

SAMPLE NO.: VC-99#14-3
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 10.7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW-SM

DRY SAMPLE WEIGHT (GRAMS): 118.75
SAMPLE WEIGHT AFTER WASH (GRAMS): 111.97

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	4.89	4.12	95.88
7	-1.50	2.800	9.30	7.83	92.17
10	-1.00	2.000	17.18	14.47	85.53
14	-0.50	1.400	29.04	24.45	75.55
18	0.00	1.000	42.42	35.72	64.28
25	0.50	0.710	57.78	48.66	51.34
35	1.00	0.500	74.10	62.40	37.60
45	1.50	0.355	81.71	68.81	31.19
60	2.00	0.250	88.42	74.46	25.54
80	2.50	0.180	94.56	79.63	20.37
120	3.00	0.125	103.44	87.11	12.89
170	3.50	0.090	111.64	94.01	5.99
200	3.75	0.075	111.86	94.20	5.80
230	4.00	0.063	115.34	97.13	2.87
PAN			118.75	100.00	0.00

PHI(5): -1.88 PHI(16): -0.92 PHI(25): -0.48
PHI(50): 0.55 PHI(75): 2.05 PHI(84): 2.79
PHI(95): 3.82

SIEVE LOSS(g): 0.00 SILT/CLAY: 5.80%
SKEWNESS: 0.226 KURTOSIS: 0.924

GRAPHIC METHOD

MEAN (PHI): 0.87 SORTING: 1.86
MEAN (mm): 0.55 MEDIAN (mm): 0.68

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.65 SORTING: 1.61
MEAN (mm): 0.64

DATA FILE NAME: VC-99#14-3.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/20/1999

SAMPLE NO.: VC99 14#4

SAMPLE ELEV. (FT. NGVD): -48.2

SAMPLE DEPTH (FT.): 11.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 95.59

SAMPLE WEIGHT AFTER WASH (GRAMS): 94.43

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	3.49	3.65	96.35
5	-2.00	4.000	5.24	5.48	94.52
7	-1.50	2.800	6.71	7.02	92.98
10	-1.00	2.000	9.52	9.96	90.04
14	-0.50	1.400	14.43	15.10	84.90
18	0.00	1.000	19.24	20.13	79.87
25	0.50	0.710	27.78	29.06	70.94
35	1.00	0.500	37.70	39.44	60.56
45	1.50	0.355	45.86	47.98	52.02
60	2.00	0.250	53.62	56.09	43.91
80	2.50	0.180	61.29	64.12	35.88
120	3.00	0.125	78.39	82.01	17.99
170	3.50	0.090	93.65	97.97	2.03
200	3.75	0.075	94.33	98.68	1.32
230	4.00	0.063	94.96	99.34	0.66
PAN			95.57	99.98	0.02

PHI(5): -2.26

PHI(16): -0.41

PHI(25): 0.27

PHI(50): 1.62

PHI(75): 2.80

PHI(84): 3.06

PHI(95): 3.41

SIEVE LOSS(g): 0.02

SILT/CLAY: 1.32%

SKEWNESS: -0.606

KURTOSIS: 0.918

GRAPHIC METHOD

MEAN (PHI): 1.08

SORTING: 1.74

MEAN (mm): 0.47

MEDIAN (mm): 0.32

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.31

SORTING: 1.76

MEAN (mm): 0.40

DATA FILE NAME: VC99-14#4.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 5/20/1999

SAMPLE NO.: VC99 14#5

SAMPLE ELEV. (FT. NGVD): -50.2

SAMPLE DEPTH (FT.): 13.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 95.52

SAMPLE WEIGHT AFTER WASH (GRAMS): 94.00

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	0.15	0.16	99.84
7	-1.50	2.800	0.30	0.31	99.69
10	-1.00	2.000	0.63	0.66	99.34
14	-0.50	1.400	0.97	1.02	98.98
18	0.00	1.000	1.21	1.27	98.73
25	0.50	0.710	1.53	1.60	98.40
35	1.00	0.500	2.06	2.16	97.84
45	1.50	0.355	2.78	2.91	97.09
60	2.00	0.250	5.51	5.77	94.23
80	2.50	0.180	11.49	12.03	87.97
120	3.00	0.125	36.11	37.80	62.20
170	3.50	0.090	91.95	96.26	3.74
200	3.75	0.075	93.78	98.18	1.82
230	4.00	0.063	94.74	99.18	0.82
PAN			95.51	99.99	0.01

PHI (5): 1.87

PHI (16): 2.58

PHI (25): 2.75

PHI (50): 3.10

PHI (75): 3.32

PHI (84): 3.40

PHI (95): 3.49

SIEVE LOSS (g): 0.01

SILT/CLAY: 1.82%

SKEWNESS: -1.044

KURTOSIS: 1.175

GRAPHIC METHOD

MEAN (PHI): 2.89

SORTING: 0.41

MEAN (mm): 0.14

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

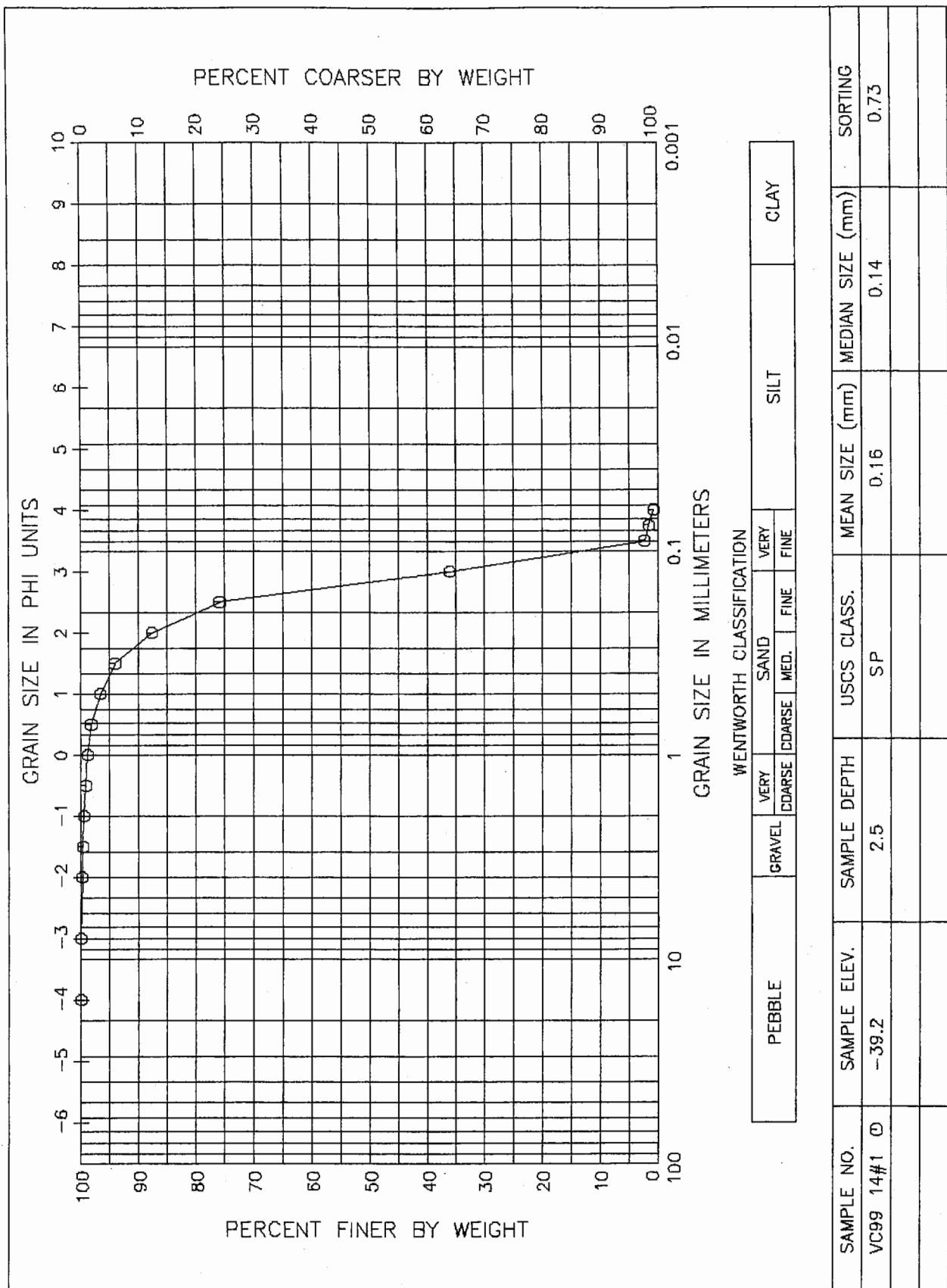
MOMENT METHOD

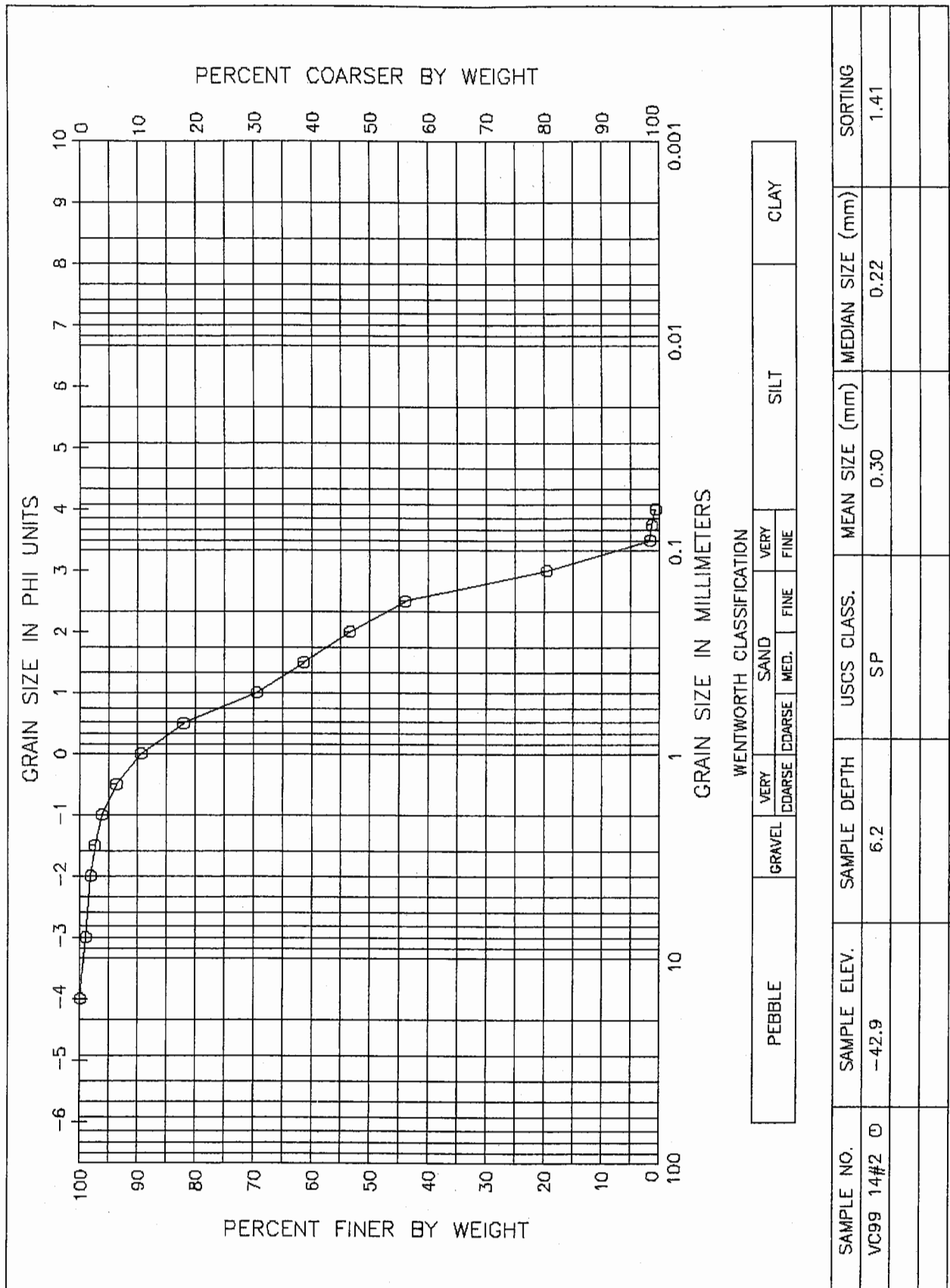
MEAN (PHI): 2.93

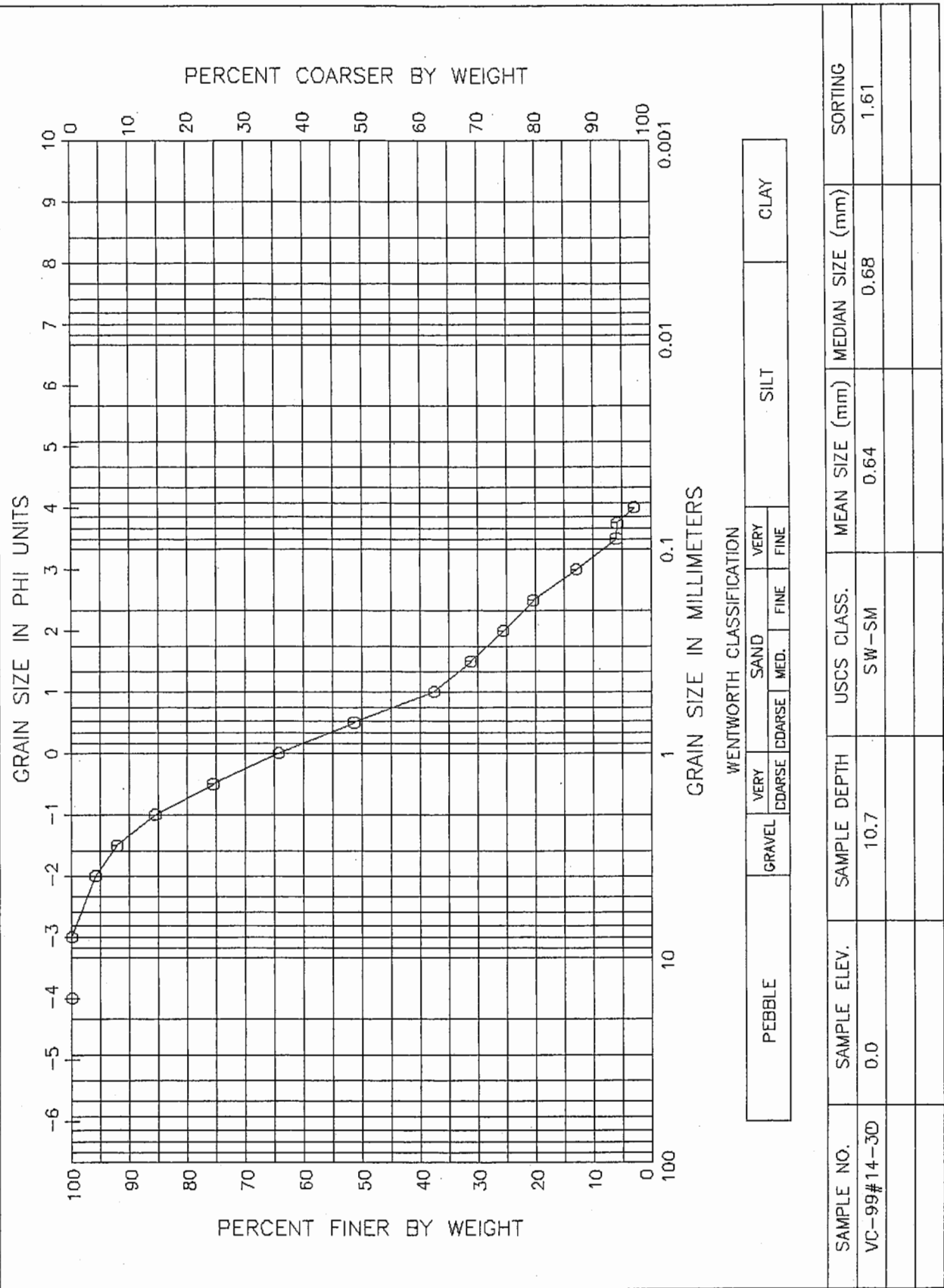
SORTING: 0.67

MEAN (mm): 0.13

DATA FILE NAME: VC99-14#5.TAB







GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

