

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 5/11/99

SAMPLE NO.: VC99 8#1

SAMPLE ELEV. (FT. NGVD): -62.0

SAMPLE DEPTH (FT.): 2.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 85.19

SAMPLE WEIGHT AFTER WASH (GRAMS): 83.62

| 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 | 0.23 | 0.27 | 99.73 |
| 5 | -2.00 | 4.000 | 0.27 | 0.32 | 99.68 |
| 7 | -1.50 | 2.800 | 0.29 | 0.34 | 99.66 |
| 10 | -1.00 | 2.000 | 0.38 | 0.45 | 99.55 |
| 14 | -0.50 | 1.400 | 0.49 | 0.58 | 99.42 |
| 18 | 0.00 | 1.000 | 0.60 | 0.70 | 99.30 |
| 25 | 0.50 | 0.710 | 0.79 | 0.93 | 99.07 |
| 35 | 1.00 | 0.500 | 1.02 | 1.20 | 98.80 |
| 45 | 1.50 | 0.355 | 1.35 | 1.58 | 98.42 |
| 60 | 2.00 | 0.250 | 2.26 | 2.65 | 97.35 |
| 80 | 2.50 | 0.180 | 7.16 | 8.40 | 91.60 |
| 120 | 3.00 | 0.125 | 59.12 | 69.40 | 30.60 |
| 170 | 3.50 | 0.090 | 82.44 | 96.77 | 3.23 |
| 200 | 3.75 | 0.075 | 83.40 | 97.90 | 2.10 |
| 230 | 4.00 | 0.063 | 84.24 | 98.88 | 1.12 |
| PAN | | | 85.17 | 99.98 | 0.02 |

PHI(5): 2.20

PHI(16): 2.56

PHI(25): 2.64

PHI(50): 2.84

PHI(75): 3.10

PHI(84): 3.27

PHI(95): 3.47

SIEVE LOSS(g): 0.02

SILT/CLAY: 2.10%

SKEWNESS: -0.015

KURTOSIS: 1.111

GRAPHIC METHOD

MEAN (PHI): 2.87

SORTING: 0.35

MEAN (mm): 0.14

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.82

SORTING: 0.56

MEAN (mm): 0.14

DATA FILE NAME: VC99-8#1.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/11/99

SAMPLE NO.: VC99 8#2
SAMPLE ELEV. (FT. NGVD): -66.5
SAMPLE DEPTH (FT.): 6.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 84.03
SAMPLE WEIGHT AFTER WASH (GRAMS): 82.43

| 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 | 0.00 | 0.00 | 100.00 |
| 5 | -2.00 | 4.000 | 0.00 | 0.00 | 100.00 |
| 7 | -1.50 | 2.800 | 0.02 | 0.02 | 99.98 |
| 10 | -1.00 | 2.000 | 0.09 | 0.11 | 99.89 |
| 14 | -0.50 | 1.400 | 0.15 | 0.18 | 99.82 |
| 18 | 0.00 | 1.000 | 0.25 | 0.30 | 99.70 |
| 25 | 0.50 | 0.710 | 0.35 | 0.42 | 99.58 |
| 35 | 1.00 | 0.500 | 0.59 | 0.70 | 99.30 |
| 45 | 1.50 | 0.355 | 0.91 | 1.08 | 98.92 |
| 60 | 2.00 | 0.250 | 1.92 | 2.28 | 97.72 |
| 80 | 2.50 | 0.180 | 5.83 | 6.94 | 93.06 |
| 120 | 3.00 | 0.125 | 34.82 | 41.44 | 58.56 |
| 170 | 3.50 | 0.090 | 78.74 | 93.70 | 6.30 |
| 200 | 3.75 | 0.075 | 81.84 | 97.39 | 2.61 |
| 230 | 4.00 | 0.063 | 83.13 | 98.93 | 1.07 |
| PAN | | | 84.03 | 100.00 | 0.00 |

| | | |
|----------------|----------------|----------------|
| PHI (5): 2.29 | PHI (16): 2.63 | PHI (25): 2.76 |
| PHI (50): 3.08 | PHI (75): 3.32 | PHI (84): 3.41 |
| PHI (95): 3.59 | | |

| | |
|----------------------|------------------|
| SIEVE LOSS (g): 0.00 | SILT/CLAY: 2.61% |
| SKEWNESS: -0.366 | KURTOSIS: 0.950 |

GRAPHIC METHOD

| | |
|--|-------------------|
| MEAN (PHI): 3.00 | SORTING: 0.39 |
| MEAN (mm): 0.13 | MEDIAN (mm): 0.12 |
| NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD | |

MOMENT METHOD

| | |
|------------------|---------------|
| MEAN (PHI): 3.00 | SORTING: 0.45 |
| MEAN (mm): 0.12 | |

DATA FILE NAME: VC99-8#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 5/11/99

SAMPLE NO.: VC99 8#3
SAMPLE ELEV. (FT. NGVD): -73.0
SAMPLE DEPTH (FT.): 13.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 80.95
SAMPLE WEIGHT AFTER WASH (GRAMS): 79.03

| 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 | 0.02 | 0.02 | 99.98 |
| 7 | -1.50 | 2.800 | 0.05 | 0.06 | 99.94 |
| 10 | -1.00 | 2.000 | 0.14 | 0.17 | 99.83 |
| 14 | -0.50 | 1.400 | 0.29 | 0.36 | 99.64 |
| 18 | 0.00 | 1.000 | 0.44 | 0.54 | 99.46 |
| 25 | 0.50 | 0.710 | 0.70 | 0.86 | 99.14 |
| 35 | 1.00 | 0.500 | 1.31 | 1.62 | 98.38 |
| 45 | 1.50 | 0.355 | 2.39 | 2.95 | 97.05 |
| 60 | 2.00 | 0.250 | 4.65 | 5.74 | 94.26 |
| 80 | 2.50 | 0.180 | 12.22 | 15.10 | 84.90 |
| 120 | 3.00 | 0.125 | 56.89 | 70.28 | 29.72 |
| 170 | 3.50 | 0.090 | 78.10 | 96.48 | 3.52 |
| 200 | 3.75 | 0.075 | 78.83 | 97.38 | 2.62 |
| 230 | 4.00 | 0.063 | 79.79 | 98.57 | 1.43 |
| PAN | | | 80.95 | 100.00 | 0.00 |

PHI(5): 1.87 PHI(16): 2.51 PHI(25): 2.59
PHI(50): 2.82 PHI(75): 3.09 PHI(84): 3.26
PHI(95): 3.47

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.62%
SKEWNESS: -0.390 KURTOSIS: 1.315

GRAPHIC METHOD

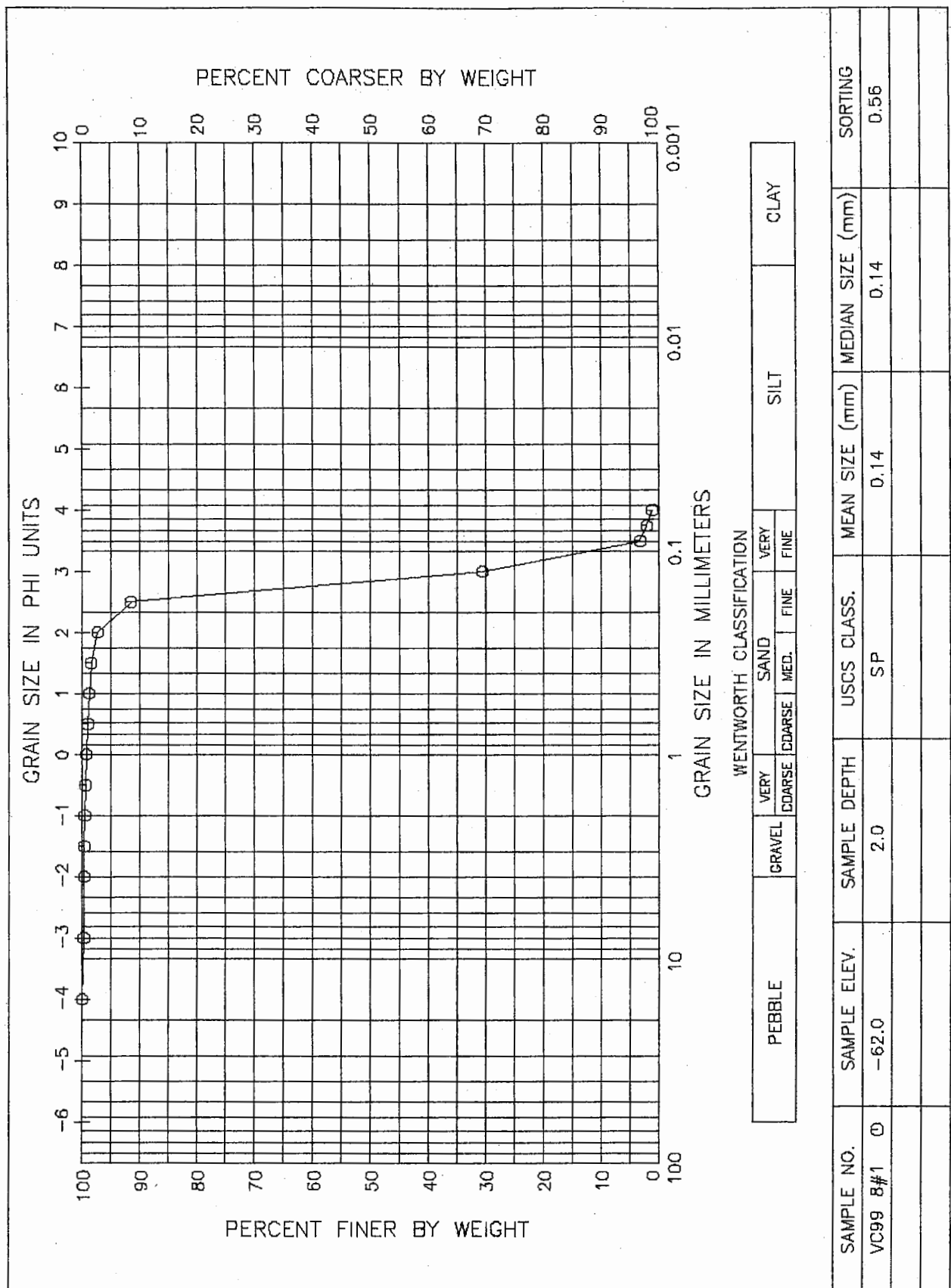
MEAN (PHI): 2.78 SORTING: 0.38
MEAN (mm): 0.15 MEDIAN (mm): 0.14

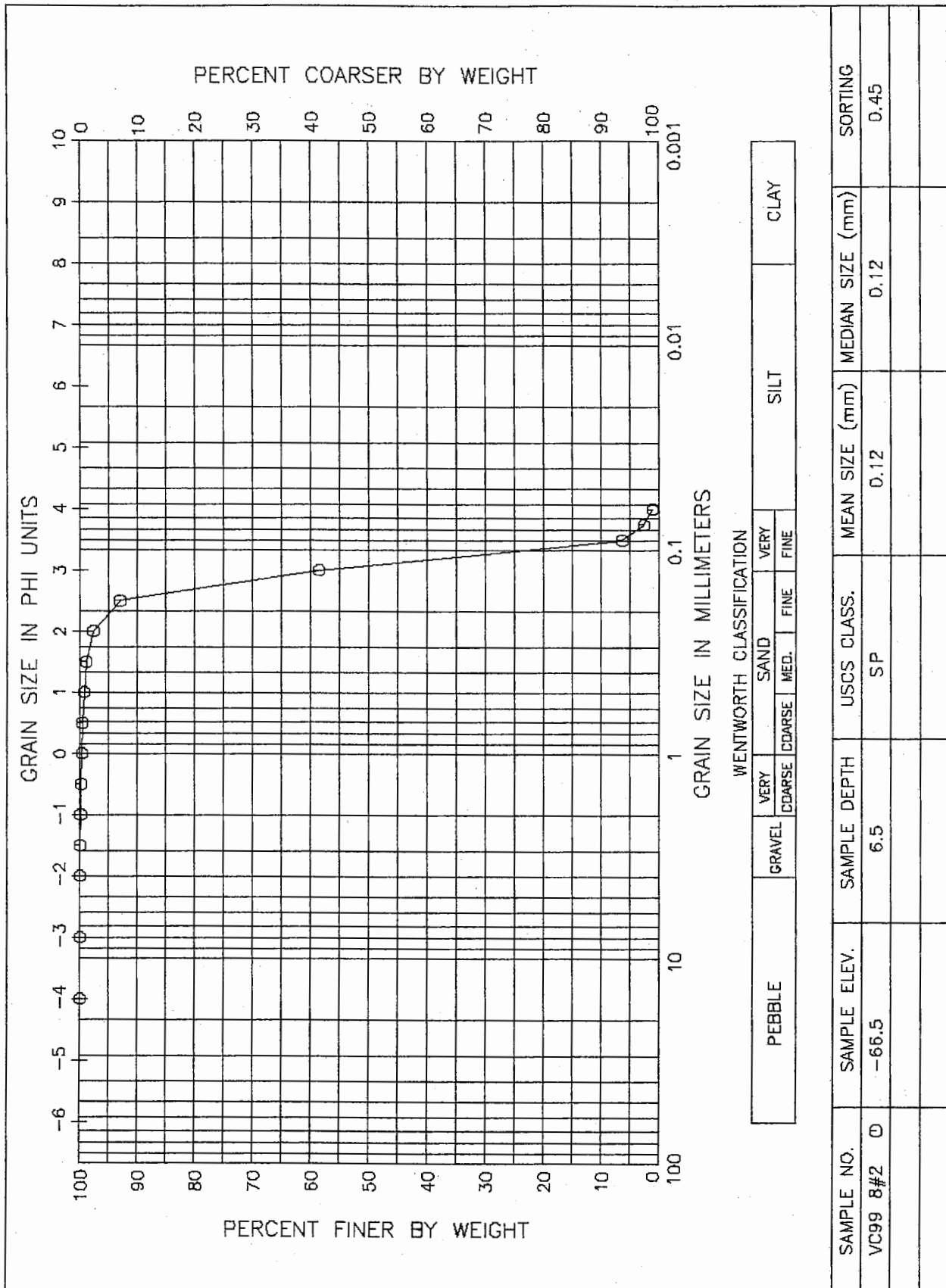
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.77 SORTING: 0.54
MEAN (mm): 0.15

DATA FILE NAME: VC99-8#3.TAB





GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

