

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 52#1

SAMPLE ELEV. (FT. NGVD): -37.6

SAMPLE DEPTH (FT.): 4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 198.39

SAMPLE WEIGHT AFTER WASH (GRAMS): 196.09

| 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 | 0.58 | 0.29 | 99.71 |
| 7 | -1.50 | 2.800 | 0.82 | 0.41 | 99.59 |
| 10 | -1.00 | 2.000 | 1.16 | 0.58 | 99.42 |
| 14 | -0.50 | 1.400 | 1.66 | 0.84 | 99.16 |
| 18 | 0.00 | 1.000 | 2.31 | 1.16 | 98.84 |
| 25 | 0.50 | 0.710 | 3.17 | 1.60 | 98.40 |
| 35 | 1.00 | 0.500 | 4.47 | 2.25 | 97.75 |
| 45 | 1.50 | 0.355 | 6.50 | 3.28 | 96.72 |
| 60 | 2.00 | 0.250 | 11.52 | 5.81 | 94.19 |
| 80 | 2.50 | 0.180 | 32.79 | 16.53 | 83.47 |
| 120 | 3.00 | 0.125 | 130.55 | 65.80 | 34.20 |
| 170 | 3.50 | 0.090 | 193.69 | 97.63 | 2.37 |
| 200 | 3.75 | 0.075 | 195.69 | 98.64 | 1.36 |
| 230 | 4.00 | 0.063 | 197.08 | 99.34 | 0.66 |
| PAN | | | 198.39 | 100.00 | 0.00 |

PHI(5): 1.84

PHI(16): 2.48

PHI(25): 2.59

PHI(50): 2.84

PHI(75): 3.14

PHI(84): 3.29

PHI(95): 3.46

SIEVE LOSS(g): 0.00

SILT/CLAY: 1.36%

SKEWNESS: -0.469

KURTOSIS: 1.187

GRAPHIC METHOD

MEAN (PHI): 2.78

SORTING: 0.41

MEAN (mm): 0.15

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.76

SORTING: 0.65

MEAN (mm): 0.15

DATA FILE NAME: VC99-52#1.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 6/29/99

SAMPLE NO.: VC99 52#2

SAMPLE ELEV. (FT. NGVD): -42.6

SAMPLE DEPTH (FT.): 9.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 223.16

SAMPLE WEIGHT AFTER WASH (GRAMS): 218.88

| 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 | 0.08 | 99.92 |
| 7 | -1.50 | 2.800 | 0.26 | 0.12 | 99.88 |
| 10 | -1.00 | 2.000 | 0.45 | 0.20 | 99.80 |
| 14 | -0.50 | 1.400 | 0.98 | 0.44 | 99.56 |
| 18 | 0.00 | 1.000 | 1.53 | 0.69 | 99.31 |
| 25 | 0.50 | 0.710 | 2.58 | 1.16 | 98.84 |
| 35 | 1.00 | 0.500 | 4.17 | 1.87 | 98.13 |
| 45 | 1.50 | 0.355 | 6.64 | 2.98 | 97.02 |
| 60 | 2.00 | 0.250 | 14.40 | 6.45 | 93.55 |
| 80 | 2.50 | 0.180 | 43.06 | 19.30 | 80.70 |
| 120 | 3.00 | 0.125 | 146.04 | 65.44 | 34.56 |
| 170 | 3.50 | 0.090 | 216.24 | 96.90 | 3.10 |
| 200 | 3.75 | 0.075 | 218.14 | 97.75 | 2.25 |
| 230 | 4.00 | 0.063 | 220.72 | 98.91 | 1.09 |
| PAN | | | 223.13 | 99.99 | 0.01 |

PHI (5): 1.79

PHI (16): 2.37

PHI (25): 2.56

PHI (50): 2.83

PHI (75): 3.15

PHI (84): 3.29

PHI (95): 3.47

SIEVE LOSS(g): 0.03

SILT/CLAY: 2.25%

SKEWNESS: -0.438

KURTOSIS: 1.166

GRAPHIC METHOD

MEAN (PHI): 2.75

SORTING: 0.46

MEAN (mm): 0.15

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.76

SORTING: 0.59

MEAN (mm): 0.15

DATA FILE NAME: VC99-52#2.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/29/99

SAMPLE NO.: VC99 52#3
SAMPLE ELEV. (FT. NGVD): -47.6
SAMPLE DEPTH (FT.): 14.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 245.75
SAMPLE WEIGHT AFTER WASH (GRAMS): 241.21

| 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 | 0.25 | 0.10 | 99.90 |
| 7 | -1.50 | 2.800 | 0.74 | 0.30 | 99.70 |
| 10 | -1.00 | 2.000 | 1.08 | 0.44 | 99.56 |
| 14 | -0.50 | 1.400 | 1.84 | 0.75 | 99.25 |
| 18 | 0.00 | 1.000 | 2.60 | 1.06 | 98.94 |
| 25 | 0.50 | 0.710 | 3.58 | 1.46 | 98.54 |
| 35 | 1.00 | 0.500 | 5.33 | 2.17 | 97.83 |
| 45 | 1.50 | 0.355 | 8.23 | 3.35 | 96.65 |
| 60 | 2.00 | 0.250 | 14.93 | 6.08 | 93.92 |
| 80 | 2.50 | 0.180 | 35.65 | 14.51 | 85.49 |
| 120 | 3.00 | 0.125 | 149.26 | 60.74 | 39.26 |
| 170 | 3.50 | 0.090 | 238.70 | 97.13 | 2.87 |
| 200 | 3.75 | 0.075 | 240.37 | 97.81 | 2.19 |
| 230 | 4.00 | 0.063 | 243.12 | 98.93 | 1.07 |
| PAN | | | 245.77 | 100.00 | -0.01 |

PHI(5): 1.80 PHI(16): 2.52 PHI(25): 2.61
PHI(50): 2.88 PHI(75): 3.20 PHI(84): 3.32
PHI(95): 3.47

SIEVE LOSS(g): -0.02 SILT/CLAY: 2.19%
SKEWNESS: -0.615 KURTOSIS: 1.174

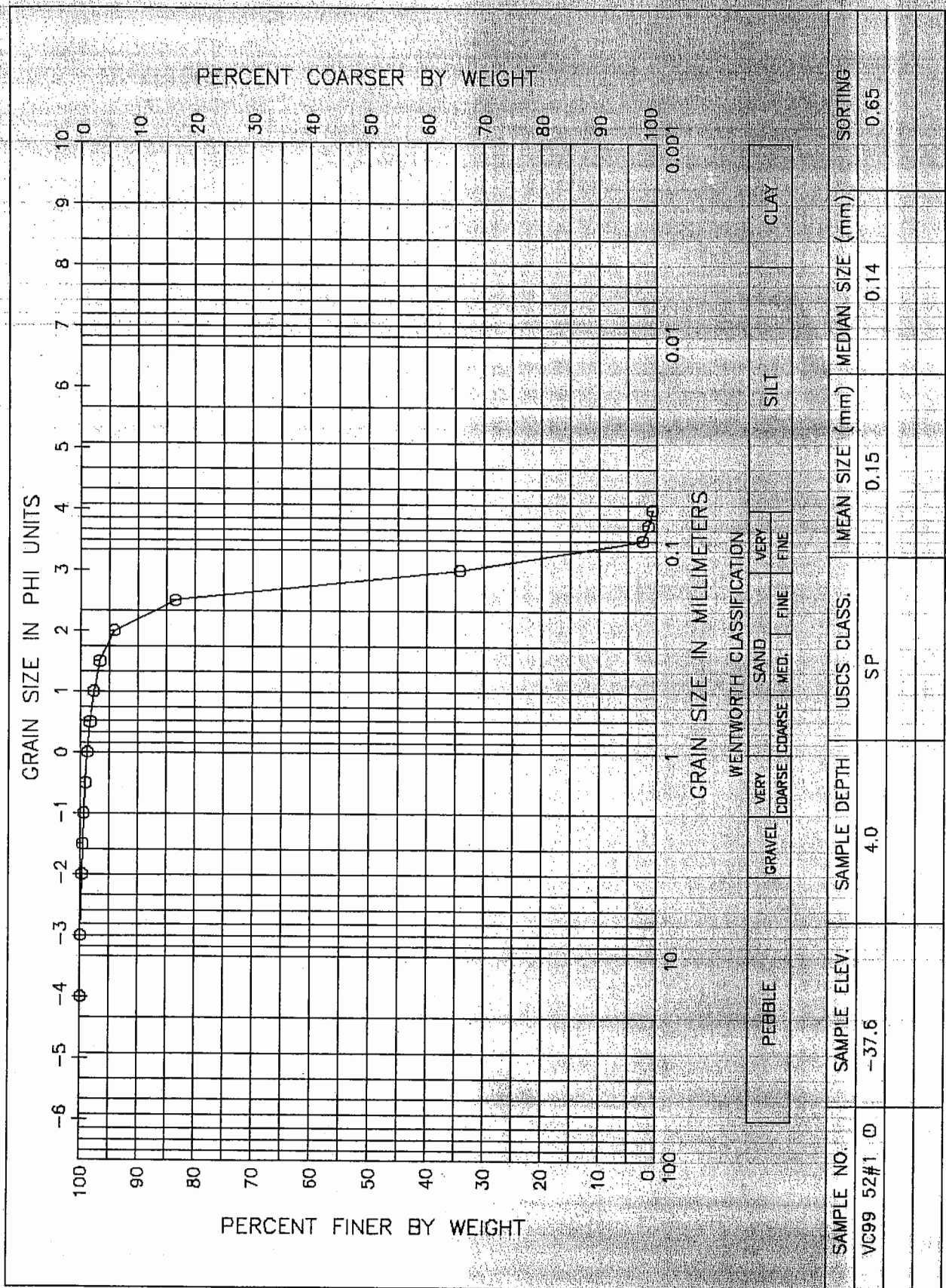
GRAPHIC METHOD

MEAN (PHI): 2.80 SORTING: 0.40
MEAN (mm): 0.14 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.80 SORTING: 0.63
MEAN (mm): 0.14

DATA FILE NAME: VC99-52#3.TAB



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH

