

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 64#1  
SAMPLE ELEV. (FT. NGVD): -34.2  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 178.67  
SAMPLE WEIGHT AFTER WASH (GRAMS): 177.17

| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE<br>(mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 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                | 0.01            | 99.99         |
| 7             | -1.50       | 2.800             | 0.08                | 0.04            | 99.96         |
| 10            | -1.00       | 2.000             | 0.15                | 0.08            | 99.92         |
| 14            | -0.50       | 1.400             | 0.35                | 0.20            | 99.80         |
| 18            | 0.00        | 1.000             | 0.75                | 0.42            | 99.58         |
| 25            | 0.50        | 0.710             | 1.40                | 0.78            | 99.22         |
| 35            | 1.00        | 0.500             | 2.41                | 1.35            | 98.65         |
| 45            | 1.50        | 0.355             | 3.79                | 2.12            | 97.88         |
| 60            | 2.00        | 0.250             | 7.28                | 4.07            | 95.93         |
| 80            | 2.50        | 0.180             | 20.98               | 11.74           | 88.26         |
| 120           | 3.00        | 0.125             | 98.56               | 55.16           | 44.84         |
| 170           | 3.50        | 0.090             | 175.60              | 98.28           | 1.72          |
| 200           | 3.75        | 0.075             | 177.01              | 99.07           | 0.93          |
| 230           | 4.00        | 0.063             | 177.91              | 99.57           | 0.43          |
| PAN           |             |                   | 178.67              | 100.00          | 0.00          |

PHI(5): 2.06 PHI(16): 2.55 PHI(25): 2.65  
PHI(50): 2.94 PHI(75): 3.23 PHI(84): 3.33  
PHI(95): 3.46

SIEVE LOSS(g): 0.00 SILT/CLAY: 0.93%  
SKEWNESS: -0.457 KURTOSIS: 0.995

GRAPHIC METHOD

MEAN (PHI): 2.87 SORTING: 0.39  
MEAN (mm): 0.14 MEDIAN (mm): 0.13  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.87 SORTING: 0.51  
MEAN (mm): 0.14

DATA FILE NAME: VC99-64#1.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW

ON: 7-19-99

SAMPLE NO.: VC99 64#2

SAMPLE ELEV. (FT. NGVD): -36.5

SAMPLE DEPTH (FT.): 4.3

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 242.02

SAMPLE WEIGHT AFTER WASH (GRAMS): 241.26

| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE<br>(mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8           | -4.00       | 16.000            | 0.00                | 0.00            | 100.00        |
| 5/16          | -3.00       | 8.000             | 0.38                | 0.16            | 99.84         |
| 5             | -2.00       | 4.000             | 6.38                | 2.64            | 97.36         |
| 7             | -1.50       | 2.800             | 12.92               | 5.34            | 94.66         |
| 10            | -1.00       | 2.000             | 25.08               | 10.36           | 89.64         |
| 14            | -0.50       | 1.400             | 50.28               | 20.78           | 79.22         |
| 18            | 0.00        | 1.000             | 77.61               | 32.07           | 67.93         |
| 25            | 0.50        | 0.710             | 114.48              | 47.30           | 52.70         |
| 35            | 1.00        | 0.500             | 158.10              | 65.33           | 34.67         |
| 45            | 1.50        | 0.355             | 182.29              | 75.32           | 24.68         |
| 60            | 2.00        | 0.250             | 197.32              | 81.53           | 18.47         |
| 80            | 2.50        | 0.180             | 211.57              | 87.42           | 12.58         |
| 120           | 3.00        | 0.125             | 230.99              | 95.44           | 4.56          |
| 170           | 3.50        | 0.090             | 240.89              | 99.53           | 0.47          |
| 200           | 3.75        | 0.075             | 241.16              | 99.64           | 0.36          |
| 230           | 4.00        | 0.063             | 241.59              | 99.82           | 0.18          |
| PAN           |             |                   | 242.00              | 99.99           | 0.01          |

PHI (5): -1.56

PHI (16): -0.73

PHI (25): -0.31

PHI (50): 0.57

PHI (75): 1.48

PHI (84): 2.21

PHI (95): 2.97

SIEVE LOSS (g): 0.02

SILT/CLAY: 0.36%

SKEWNESS: 0.089

KURTOSIS: 1.034

## GRAPHIC METHOD

MEAN (PHI): 0.69

SORTING: 1.47

MEAN (mm): 0.62

MEDIAN (mm): 0.67

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 0.62

SORTING: 1.36

MEAN (mm): 0.65

DATA FILE NAME: VC99-64#2.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 64#3  
SAMPLE ELEV. (FT. NGVD): -41.2  
SAMPLE DEPTH (FT.): 9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 166.04  
SAMPLE WEIGHT AFTER WASH (GRAMS): 164.61

| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE<br>(mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5/8           | -4.00       | 16.000            | 0.00                | 0.00            | 100.00        |
| 5/16          | -3.00       | 8.000             | 0.46                | 0.28            | 99.72         |
| 5             | -2.00       | 4.000             | 0.95                | 0.57            | 99.43         |
| 7             | -1.50       | 2.800             | 1.71                | 1.03            | 98.97         |
| 10            | -1.00       | 2.000             | 2.41                | 1.45            | 98.55         |
| 14            | -0.50       | 1.400             | 3.43                | 2.07            | 97.93         |
| 18            | 0.00        | 1.000             | 4.60                | 2.77            | 97.23         |
| 25            | 0.50        | 0.710             | 6.45                | 3.88            | 96.12         |
| 35            | 1.00        | 0.500             | 8.77                | 5.28            | 94.72         |
| 45            | 1.50        | 0.355             | 11.52               | 6.94            | 93.06         |
| 60            | 2.00        | 0.250             | 17.56               | 10.58           | 89.42         |
| 80            | 2.50        | 0.180             | 40.14               | 24.17           | 75.83         |
| 120           | 3.00        | 0.125             | 110.83              | 66.75           | 33.25         |
| 170           | 3.50        | 0.090             | 162.29              | 97.74           | 2.26          |
| 200           | 3.75        | 0.075             | 164.39              | 99.01           | 0.99          |
| 230           | 4.00        | 0.063             | 165.26              | 99.53           | 0.47          |
| PAN           |             |                   | 166.03              | 99.99           | 0.01          |

PHI(5): 0.90 PHI(16): 2.20 PHI(25): 2.51  
PHI(50): 2.80 PHI(75): 3.13 PHI(84): 3.28  
PHI(95): 3.46

SIEVE LOSS(g): 0.01 SILT/CLAY: 0.99%  
SKEWNESS: -1.160 KURTOSIS: 1.681

GRAPHIC METHOD

MEAN (PHI): 2.53 SORTING: 0.54  
MEAN (mm): 0.17 MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.62 SORTING: 0.90  
MEAN (mm): 0.16

DATA FILE NAME: VC99-64#3.TAB

## GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 7-19-99

SAMPLE NO.: VC99 64#4

SAMPLE ELEV. (FT. NGVD): -48.2

SAMPLE DEPTH (FT.): 16.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 186.64

SAMPLE WEIGHT AFTER WASH (GRAMS): 184.39

| SIEVE<br>SIZE | PHI<br>SIZE | MESH SIZE<br>(mm) | RETAINED<br>(GRAMS) | RETAINED<br>(%) | PASSED<br>(%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 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             | 0.13                | 0.07            | 99.93         |
| 7             | -1.50       | 2.800             | 0.25                | 0.13            | 99.87         |
| 10            | -1.00       | 2.000             | 0.48                | 0.26            | 99.74         |
| 14            | -0.50       | 1.400             | 0.86                | 0.46            | 99.54         |
| 18            | 0.00        | 1.000             | 1.38                | 0.74            | 99.26         |
| 25            | 0.50        | 0.710             | 3.07                | 1.64            | 98.36         |
| 35            | 1.00        | 0.500             | 5.18                | 2.78            | 97.22         |
| 45            | 1.50        | 0.355             | 11.63               | 6.23            | 93.77         |
| 60            | 2.00        | 0.250             | 37.81               | 20.26           | 79.74         |
| 80            | 2.50        | 0.180             | 134.06              | 71.83           | 28.17         |
| 120           | 3.00        | 0.125             | 182.28              | 97.66           | 2.34          |
| 170           | 3.50        | 0.090             | 183.83              | 98.49           | 1.51          |
| 200           | 3.75        | 0.075             | 184.14              | 98.66           | 1.34          |
| 230           | 4.00        | 0.063             | 185.48              | 99.38           | 0.62          |
| PAN           |             |                   | 186.62              | 99.99           | 0.01          |

PHI(5): 1.32

PHI(16): 1.85

PHI(25): 2.05

PHI(50): 2.29

PHI(75): 2.56

PHI(84): 2.74

PHI(95): 2.95

SIEVE LOSS(g): 0.02

SILT/CLAY: 1.34%

SKEWNESS: -0.345

KURTOSIS: 1.293

## GRAPHIC METHOD

MEAN (PHI): 2.23

SORTING: 0.44

MEAN (mm): 0.21

MEDIAN (mm): 0.20

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

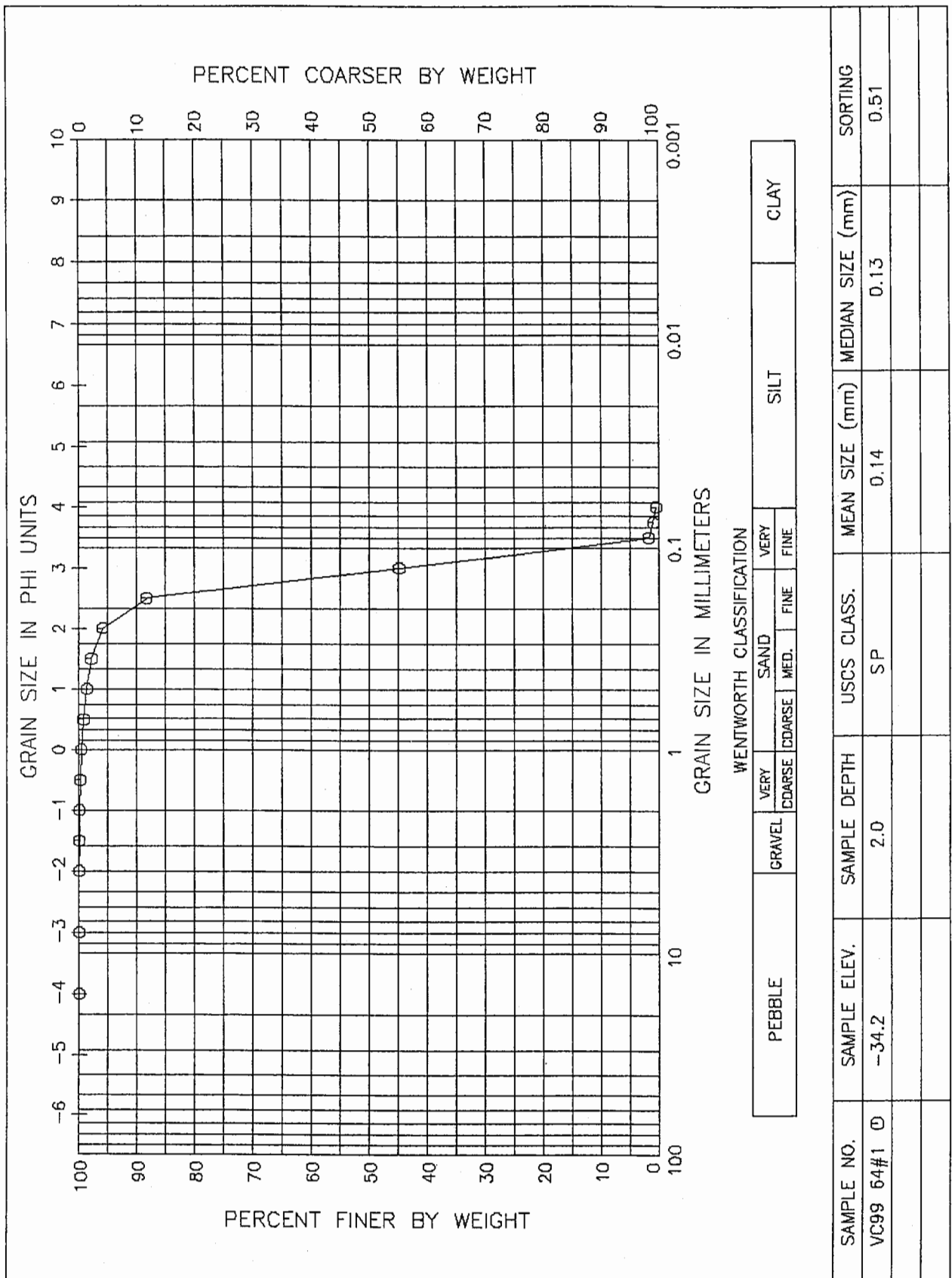
## MOMENT METHOD

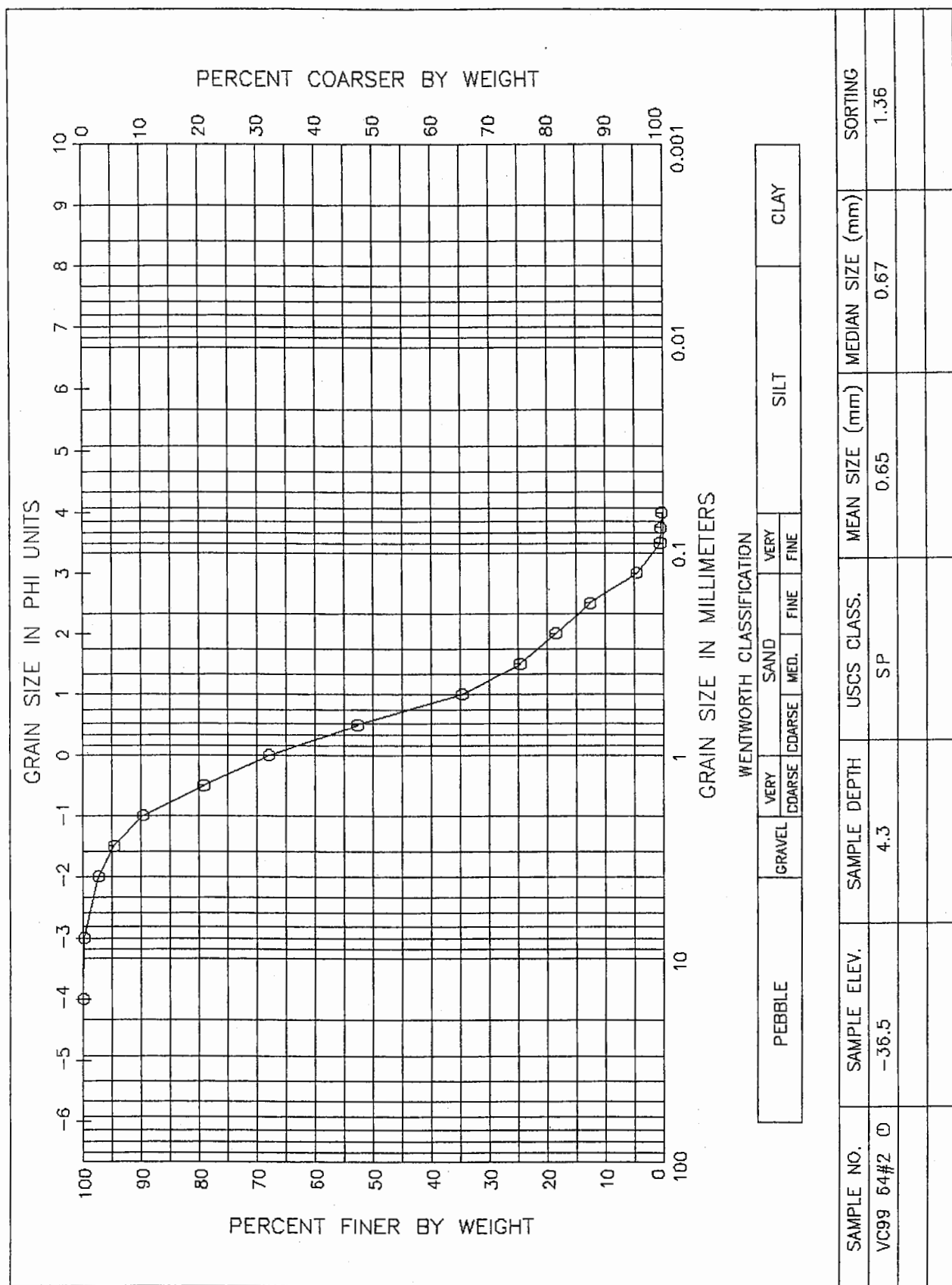
MEAN (PHI): 2.24

SORTING: 0.55

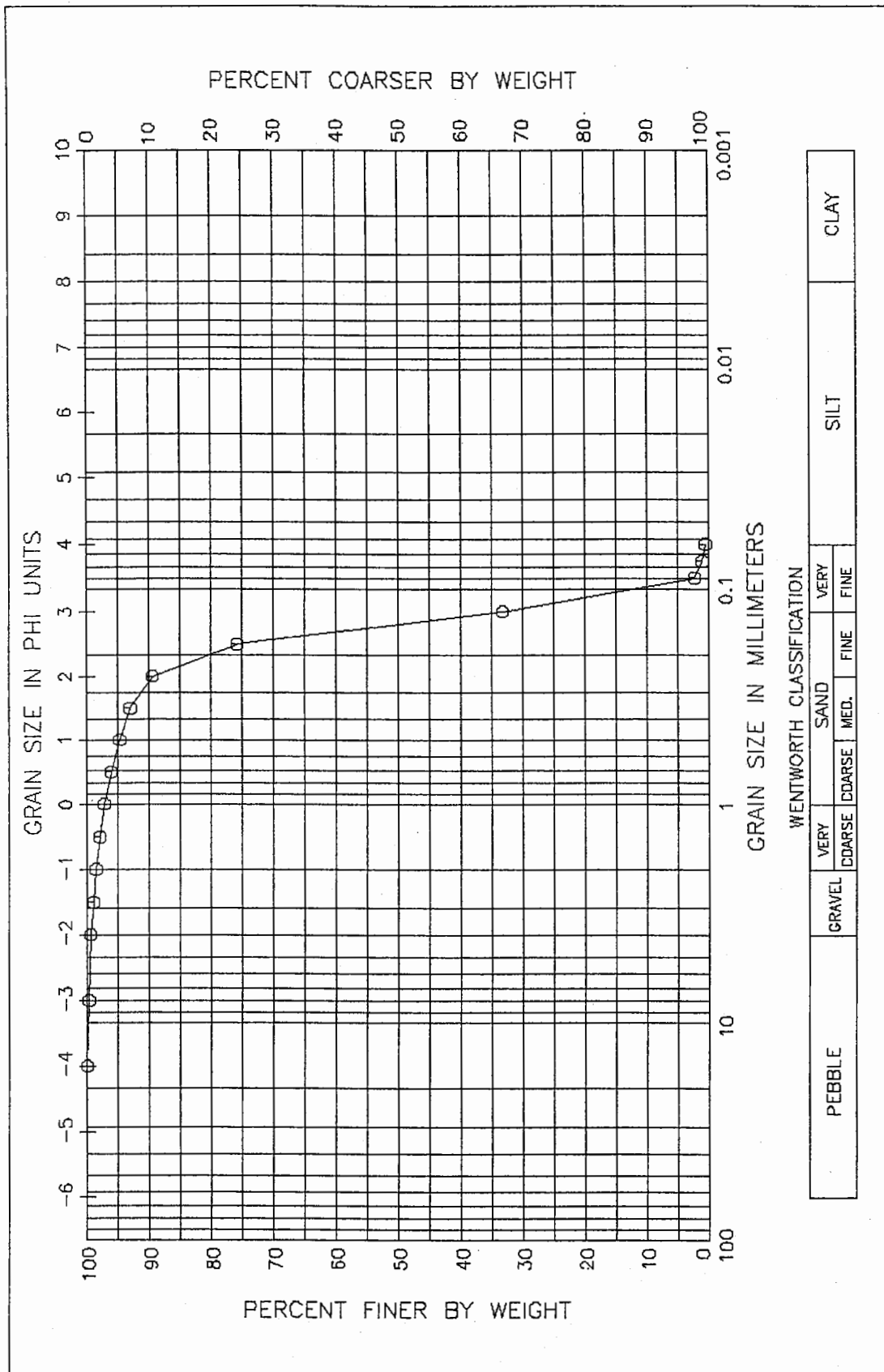
MEAN (mm): 0.21

DATA FILE NAME: VC99-64#4.TAB



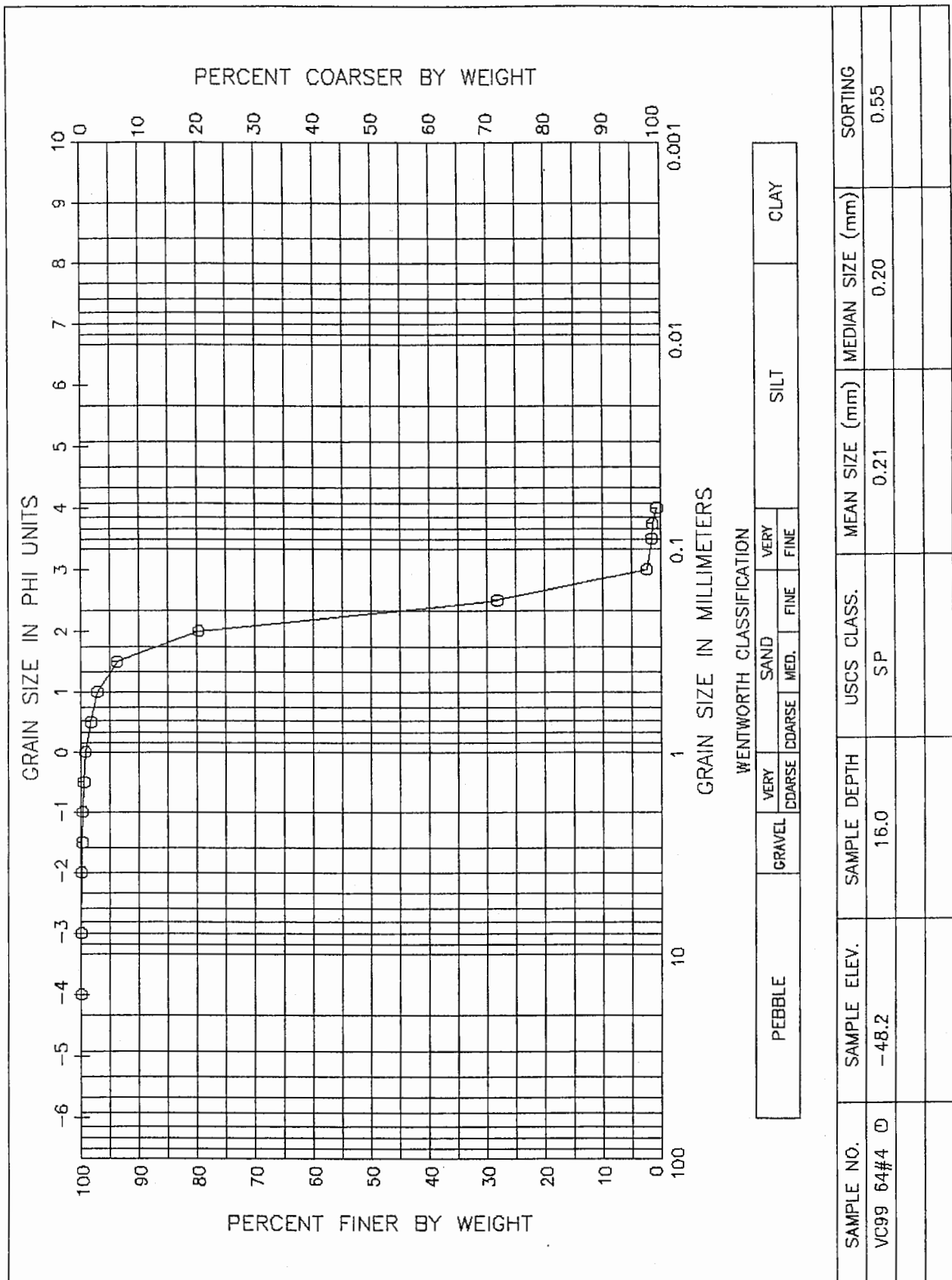


GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



| SAMPLE NO.  | SAMPLE ELEV. | SAMPLE DEPTH | USCS CLASS. | MEAN SIZE (mm) | MEDIAN SIZE (mm) | SORTING |
|-------------|--------------|--------------|-------------|----------------|------------------|---------|
| VC99 54#3 0 | -41.2        | 9.0          | SP          | 0.16           | 0.14             | 0.90    |
|             |              |              |             |                |                  |         |
|             |              |              |             |                |                  |         |

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



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TOWN OF PALM BEACH