

Sediment Analysis Data Sheet

Sample A-27R1-9.0

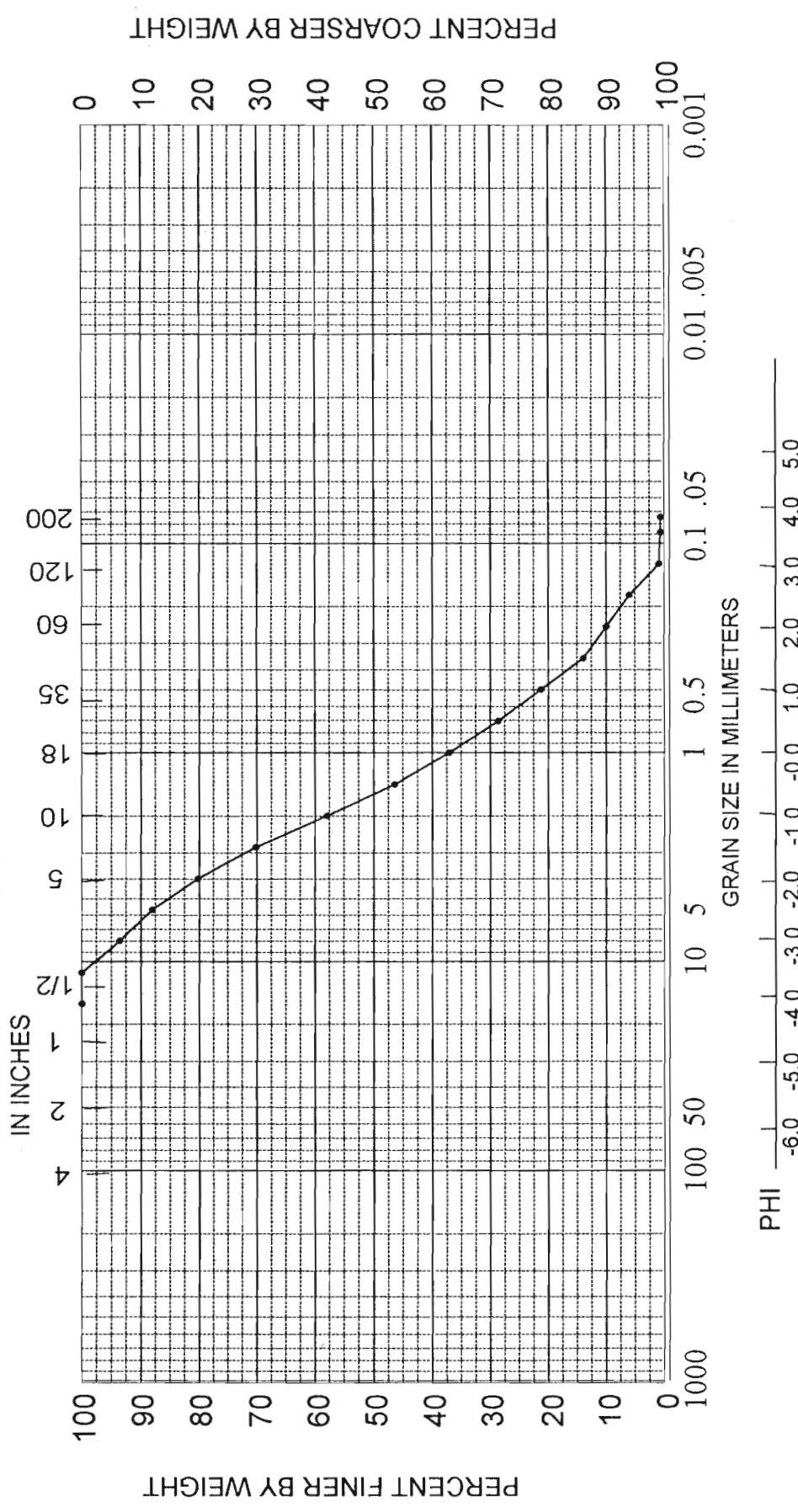
| Sieve | Size (mm) | Phi size | Wt | Wt % | Cuml % | Folk | Statistics phi | mm |
|-------|--------------|-------------|--------|---------|-----------|-------------------|-------------------|------|
| | 16.00 | -4.00 | 0.00 | 0.00 | 0.00 | | | |
| | 11.31 | -3.50 | 0.00 | 0.00 | 0.00 | | | |
| | 8.00 | -3.00 | 2.07 | 6.42 | 6.42 | | | |
| | 5.66 | -2.50 | 1.78 | 5.53 | 11.95 | 5% : | -3.11 | 8.64 |
| 5 | 4.00 | -2.00 | 2.50 | 7.78 | 19.72 | 16% : | -2.24 | 4.72 |
| 7 | 2.83 | -1.50 | 3.24 | 10.06 | 29.78 | 25% : | -1.74 | 3.33 |
| 10 | 2.00 | -1.00 | 3.94 | 12.25 | 42.03 | 50% : | -0.65 | 1.57 |
| 14 | 1.41 | -0.50 | 3.72 | 11.55 | 53.58 | 75% : | 0.75 | 0.59 |
| 18 | 1.00 | 0.00 | 2.99 | 9.29 | 62.87 | 84% : | 1.36 | 0.39 |
| 25 | 0.71 | 0.50 | 2.72 | 8.46 | 71.33 | 95% : | 2.60 | 0.17 |
| 35 | 0.50 | 1.00 | 2.37 | 7.35 | 78.68 | | | |
| 45 | 0.35 | 1.50 | 2.38 | 7.38 | 86.06 | Med. | -0.65 | 1.57 |
| 60 | 0.25 | 2.00 | 1.27 | 3.95 | 90.02 | Mean | -0.51 | 1.43 |
| 80 | 0.18 | 2.50 | 1.29 | 3.99 | 94.01 | St Dev. | 1.76 | |
| 120 | 0.13 | 3.00 | 1.63 | 5.05 | 99.06 | Skew | 0.13 | |
| 170 | 0.09 | 3.50 | 0.09 | 0.29 | 99.35 | Kurt. | 0.94 | |
| 200 | 0.07 | 3.75 | 0.00 | 0.01 | 99.36 | | | |
| Pan | | | 0.01 | 0.04 | 99.40 | | | |
| Total | | | 32.00 | 99.40 | 99.40 | | | |
| | | | | | | Moment Statistics | | |
| | | | | | | | Phi | mm |
| Cu = | 8.46 | | Gravel | 16 | % | Mean | -0.50 | 1.42 |
| | | | Coarse | Sand | 26 | % | St. Dev. | 1.65 |
| | | | Med. | Sand | 40 | % | Skewness | 0.25 |
| Cc = | 1.05 | | Fine | Sand | 17 | % | Kurtosis | 2.24 |

SEA, INC.

HYDROMETER

U.S. STANDARD SIEVE NUMBERS

U.S. STANDARD SIEVE OPENING
IN INCHES



| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---------|--------|------|--------|--------|------|--------------|
| | COARSE | FINE | COARSE | MEDIUM | FINE | |

| SAMPLE NO. | ELEV. | CLASSIFICATION | | | | PROJECT Amelia Island Stabilization Project | |
|------------|-------------|-----------------------|--|--|--|---|------------------------|
| 9.0' | -23.2' MLLW | Well graded sand (SW) | | | | AREA | Amelia Island, Georgia |
| | | | | | | BORING NO. | A-27R1 |
| | | | | | | DATE | June 2001 |

Sediment Analysis Data Sheet

Sampl A-27R1-12.0

| Sieve | Size (mm) | Phi size | Wt | Wt % | Cuml % | Folk | Statistics phi | mm |
|-------|--------------|-------------|--------|---------|-----------|----------|-------------------|------|
| | 16.00 | -4.00 | 0.00 | 0.00 | 0.00 | | | |
| | 11.31 | -3.50 | 0.00 | 0.00 | 0.00 | | | |
| | 8.00 | -3.00 | 0.00 | 0.00 | 0.00 | | | |
| | 5.66 | -2.50 | 0.00 | 0.00 | 0.00 | 5% : | 2.17 | 0.22 |
| 5 | 4.00 | -2.00 | 0.00 | 0.00 | 0.00 | 16% : | 2.51 | 0.18 |
| 7 | 2.83 | -1.50 | 0.00 | 0.00 | 0.00 | 25% : | 2.58 | 0.17 |
| 10 | 2.00 | -1.00 | 0.00 | 0.00 | 0.00 | 50% : | 2.75 | 0.15 |
| 14 | 1.41 | -0.50 | 0.00 | 0.00 | 0.00 | 75% : | 2.93 | 0.13 |
| 18 | 1.00 | 0.00 | 0.00 | 0.01 | 0.01 | 84% : | 3.00 | 0.13 |
| 25 | 0.71 | 0.50 | 0.00 | 0.00 | 0.01 | 95% : | 3.37 | 0.10 |
| 35 | 0.50 | 1.00 | 0.00 | 0.01 | 0.02 | | | |
| 45 | 0.35 | 1.50 | 0.01 | 0.03 | 0.04 | Med. | 2.75 | 0.15 |
| 60 | 0.25 | 2.00 | 0.06 | 0.15 | 0.20 | Mean | 2.75 | 0.15 |
| 80 | 0.18 | 2.50 | 5.03 | 14.04 | 14.23 | St Dev. | 0.30 | |
| 120 | 0.13 | 3.00 | 25.22 | 70.43 | 84.66 | Skew | 0.01 | |
| 170 | 0.09 | 3.50 | 4.98 | 13.91 | 98.57 | Kurt. | 1.39 | |
| 200 | 0.07 | 3.75 | 0.18 | 0.50 | 99.07 | | | |
| Pan | | | 0.01 | 0.03 | 99.10 | | | |
| Total | | | 35.49 | 99.10 | 99.10 | | | |
| | | | | | | Moment | Statistics | |
| | | | | | | | Phi | mm |
| Cu = | 1.42 | | Gravel | | 0 % | Mean | 2.75 | 0.15 |
| | | | Coarse | Sand | 0 % | St. Dev. | 0.28 | 0.82 |
| | | | Med. | Sand | 0 % | Skewness | -0.04 | |
| Cc = | 1.06 | | Fine | Sand | 99 % | Kurtosis | 5.49 | |

SEA, INC.

U.S. STANDARD SIEVE OPENING U.S. STANDARD SIEVE NUMBERS HYDROMETER
IN INCHES

200

120

60

35

18

10

5

1/2

1

2

4

100

90

80

70

60

50

40

30

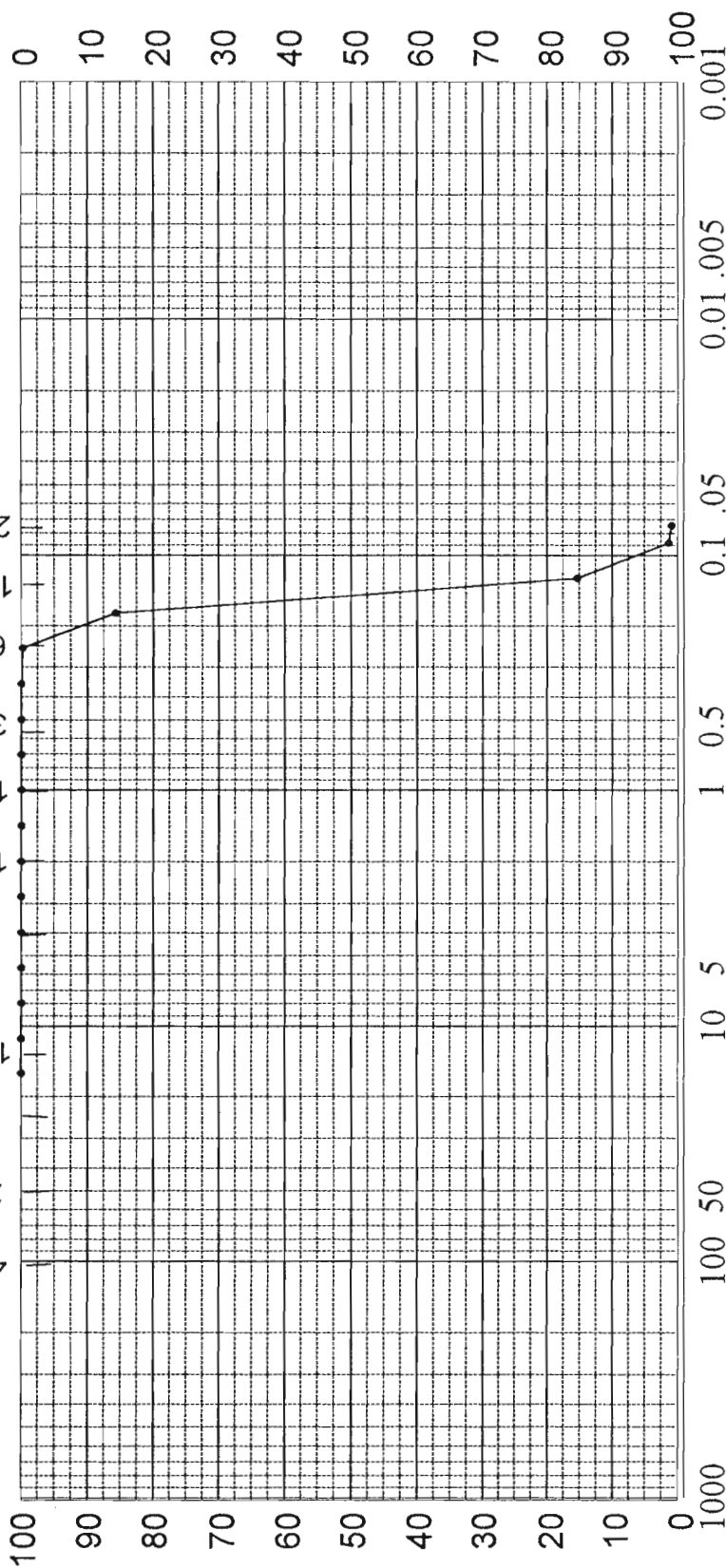
20

10

0

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT



GRAIN SIZE IN MILLIMETERS

PHI

-6.0 -5.0 -4.0 -3.0 -2.0 -1.0 -0.0 1.0 2.0 3.0 4.0 5.0

| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---------|--------|------|--------|--------|------|--------------|
| | COARSE | FINE | COARSE | MEDIUM | FINE | |

| SAMPLE NO. | ELEV. | CLASSIFICATION | | PROJECT | |
|------------|-------------|----------------|--|------------|------------------------|
| 12.0' | -26.2' MLLW | Fine sand (SP) | | AREA | Amelia Island, Georgia |
| | | | | BORING NO. | A-27R1 |
| | | | | DATE | June 2001 |