

SIEVING ERROR: 0.2%

**SAMPLE STATISTICS**SAMPLE IDENTITY: **PEN-91-09\_175**

ANALYST &amp; DATE: TC/RM, 8/20/91

SAMPLE TYPE: Trimodal, Moderately Well Sorted

TEXTURAL GROUP: Sand

SEDIMENT NAME: Moderately Well Sorted Medium Sand

|                       | $\mu\text{m}$     | $\phi$        | GRAIN SIZE DISTRIBUTION |                     |             |                        |
|-----------------------|-------------------|---------------|-------------------------|---------------------|-------------|------------------------|
| MODE 1:               | 273.5             | 1.876         | GRAVEL: 0.0%            | COARSE SAND: 13.4%  |             |                        |
| MODE 2:               | 460.0             | 1.126         | SAND: 100.0%            | MEDIUM SAND: 64.5%  |             |                        |
| MODE 3:               | 193.5             | 2.375         | MUD: 0.0%               | FINE SAND: 21.5%    |             |                        |
| $D_{10}$ :            | 192.5             | 0.910         |                         | V FINE SAND: 0.6%   |             |                        |
| MEDIAN or $D_{50}$ :  | 314.7             | 1.668         | V COARSE GRAVEL: 0.0%   | V COARSE SILT: 0.0% |             |                        |
| $D_{90}$ :            | 532.2             | 2.377         | COARSE GRAVEL: 0.0%     | COARSE SILT: 0.0%   |             |                        |
| $(D_{90} / D_{10})$ : | 2.765             | 2.613         | MEDIUM GRAVEL: 0.0%     | MEDIUM SILT: 0.0%   |             |                        |
| $(D_{90} - D_{10})$ : | 339.7             | 1.467         | FINE GRAVEL: 0.0%       | FINE SILT: 0.0%     |             |                        |
| $(D_{75} / D_{25})$ : | 1.694             | 1.629         | V FINE GRAVEL: 0.0%     | V FINE SILT: 0.0%   |             |                        |
| $(D_{75} - D_{25})$ : | 177.3             | 0.760         | V COARSE SAND: 0.0%     | CLAY: 0.0%          |             |                        |
|                       | METHOD OF MOMENTS |               |                         | FOLK & WARD METHOD  |             |                        |
|                       | Arithmetic        | Geometric     | Logarithmic             | Geometric           | Logarithmic | Description            |
|                       | $\mu\text{m}$     | $\mu\text{m}$ | $\phi$                  | $\mu\text{m}$       | $\phi$      |                        |
| MEAN ( $\bar{x}$ ):   | 346.7             | 321.8         | 1.636                   | 321.4               | 1.638       | Medium Sand            |
| SORTING ( $\sigma$ ): | 131.6             | 1.462         | 0.548                   | 1.471               | 0.557       | Moderately Well Sorted |
| SKEWNESS ( $Sk$ ):    | 0.796             | -0.109        | 0.109                   | 0.041               | -0.041      | Symmetrical            |
| KURTOSIS ( $K$ ):     | 3.396             | 2.704         | 2.704                   | 0.958               | 0.958       | Mesokurtic             |

**GRAIN SIZE DISTRIBUTION**