
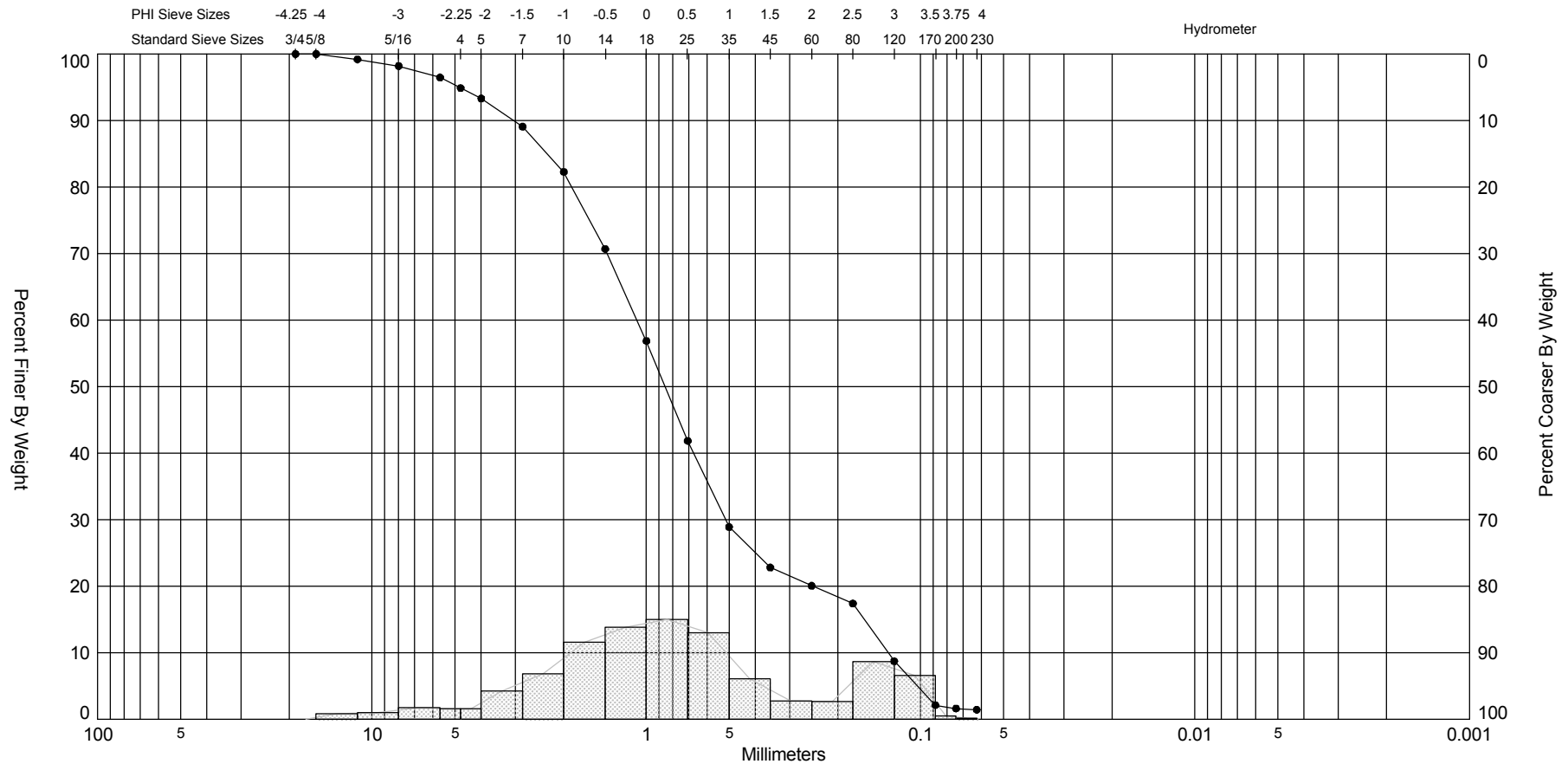



|  |                  |  |                 |  |                     |                      |                 |
|--|------------------|--|-----------------|--|---------------------|----------------------|-----------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                  |  |                 | <br><b>Coastal Planning &amp; Engineering</b><br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |                     |                      |                 |
| Project Name: 2007 Sand Search Investigation                                   |                  |  |                 |  |                     |                      |                 |
| Sample Name: TPVC-07-29 #2   |                  |  |                 |  |                     |                      |                 |
| Analysis Date: 02-09-07  |                  |  |                 |  |                     |                      |                 |
| Analyzed By: au  |                  |  |                 |  |                     |                      |                 |
| Easting (ft):  |                  | Northing (ft):   |                 | Coordinate System:   |                     | Elevation (ft):      |                 |
| 972,946  |                  | 835,759  |                 | Florida State Plane East   |                     | -34.6 NAVD 88        |                 |
| USCS:  |                  | Munsell: Wet - 2.5Y-5/1<br>Dry - 2.5Y-5/1<br>Washed - 2.5Y-5/1 |                 | Comments:  |                     |                      |                 |
| SW   |                  |  |                 |  |                     |                      |                 |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):  | Sieve Loss (%): | Fines (%):<br>#200 - 1.62<br>#230 - 1.43   | Organics (%):       | Carbonates (%):      | Shell Hash (%): |
| 90.76  | 89.59            | 0.02   | 0.13            |  |                     | 70.00                | 5               |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters)                                       | Grams Retained  | % Weight Retained  | Cum. Grams Retained | C. % Weight Retained |                 |
| 3/4  | -4.25            | 19.03  | 0.00            | 0.00   | 0.00                | 0.00                 |                 |
| 5/8  | -4.00            | 16.00  | 0.00            | 0.00   | 0.00                | 0.00                 |                 |
| 7/16   | -3.50            | 11.31  | 0.73            | 0.80   | 0.73                | 0.80                 |                 |
| 5/16   | -3.00            | 8.00   | 0.91            | 1.00   | 1.64                | 1.80                 |                 |
| 3.5  | -2.50            | 5.66   | 1.57            | 1.73   | 3.21                | 3.53                 |                 |
| 4  | -2.25            | 4.76   | 1.44            | 1.59   | 4.65                | 5.12                 |                 |
| 5  | -2.00            | 4.00   | 1.43            | 1.58   | 6.08                | 6.70                 |                 |
| 7  | -1.50            | 2.83   | 3.82            | 4.21   | 9.90                | 10.91                |                 |
| 10   | -1.00            | 2.00   | 6.17            | 6.80   | 16.07               | 17.71                |                 |
| 14   | -0.50            | 1.41   | 10.52           | 11.59  | 26.59               | 29.30                |                 |
| 18   | 0.00             | 1.00   | 12.55           | 13.83  | 39.14               | 43.13                |                 |
| 25   | 0.50             | 0.71   | 13.63           | 15.02  | 52.77               | 58.15                |                 |
| 35   | 1.00             | 0.50   | 11.76           | 12.96  | 64.53               | 71.11                |                 |
| 45   | 1.50             | 0.35   | 5.53            | 6.09   | 70.06               | 77.20                |                 |
| 60   | 2.00             | 0.25   | 2.50            | 2.75   | 72.56               | 79.95                |                 |
| 80   | 2.50             | 0.18   | 2.41            | 2.66   | 74.97               | 82.61                |                 |
| 120  | 3.00             | 0.13   | 7.88            | 8.68   | 82.85               | 91.29                |                 |
| 170  | 3.50             | 0.09   | 5.98            | 6.59   | 88.83               | 97.88                |                 |
| 200  | 3.75             | 0.07   | 0.45            | 0.50   | 89.28               | 98.38                |                 |
| 230  | 4.00             | 0.06   | 0.17            | 0.19   | 89.45               | 98.57                |                 |
|  |                  |  |                 |  |                     |                      |                 |
| Phi 5  | Phi 16           | Phi 25   | Phi 50          | Phi 75   | Phi 84              | Phi 95               |                 |
| 3.28   | 2.58             | 1.32   | 0.23            | -0.69  | -1.13               | -2.27                |                 |
| Moment   | Mean Phi         | Mean mm  | Sorting         | Skewness   | Kurtosis            |                      |                 |
| Statistics   | 0.34             | 0.79   | 1.61            | 0.12   | 2.64                |                      |                 |

SIEVE ANALYSIS TOPB\_VC\_07.GPJ FL DEP ROSS.GDT 5/10/07



| Gravel |      | Sand   |        |      | Silt and Clay |
|--------|------|--------|--------|------|---------------|
| Coarse | Fine | Coarse | Medium | Fine |               |

| Sample  | Symbol | Elev. (ft) | USCS | % Fines                    | % Organics | % Carbonates   | Median | Mean | Skew | Kurt | Sort | Sample Information |                                |
|---|--------|------------|------|----------------------------|------------|--|--------|------|------|------|------|--------------------|--------------------------------|
| TPVC-07-29 #2   | —●—    | -34.6      | SW   | #200 - 1.62<br>#230 - 1.43 |            | 70.00  | 0.23   | 0.34 | 0.12 | 2.64 | 1.61 | Project Name:      | 2007 Sand Search Investigation |
| Comments:   |        |            |      |                            |            |  |        |      |      |      |      | Analysis Date:     | 02-09-07                       |
| Depths and elevations based on measured values                                      |        |            |      |                            |            |  |        |      |      |      |      | Analyzed By:       | au                             |
|  |        |            |      |                            |            | Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |        |      |      |      |      | Easting (X, ft):   | 972,946                        |
|   |        |            |      |                            |            |  |        |      |      |      |      | Northing (Y, ft):  | 835,759                        |
|   |        |            |      |                            |            |  |        |      |      |      |      | Horizontal System: | NAD 1983                       |
|   |        |            |      |                            |            |  |        |      |      |      |      | Vertical System:   | NAVD 88                        |