

PROJECT NAME: Beach Sediment Analysis  
 CLIENT: HDR, Inc.  
 SAMPLE ID: BPE-T1  
 LOCATION: Bolivar Peninsula East

| BOLIVAR PENINSULA EAST       |                                              |                     |                       |                 |                 |            |
|------------------------------|----------------------------------------------|---------------------|-----------------------|-----------------|-----------------|------------|
| Transect 1                   |                                              |                     |                       |                 |                 |            |
| ASTM MESH                    | PERCENT SHELL BY WEIGHT (BASED ON #10 SIEVE) |                     |                       |                 |                 |            |
|                              | Toe of Dune                                  | Mid Berm            | Swash Zone            | First Bar       | Trough          | Second Bar |
| RETAINED BY #10              | 6.9                                          | 13.8                | 16.2                  | 0.1             | 0.9             | 0.3        |
| ASTM MESH                    | % FINER BY WEIGHT AFTER REMOVING SHELL       |                     |                       |                 |                 |            |
|                              | Toe of Dune                                  | Mid Berm            | Swash Zone            | First Bar       | Trough          | Second Bar |
| #10                          | 98.2                                         | 100.0               | 90.6                  | 100.0           | 98.3            | 99.2       |
| #18                          | 90.2                                         | 86.8                | 85.8                  | 99.9            | 98.1            | 97.8       |
| #35                          | 75.4                                         | 74.2                | 80.0                  | 99.9            | 97.6            | 97.1       |
| #60                          | 47.6                                         | 55.5                | 73.4                  | 99.5            | 94.8            | 96.4       |
| #70                          | 35.6                                         | 43.6                | 69.6                  | 98.9            | 90.8            | 95.7       |
| #80                          | 20.6                                         | 24.9                | 57.1                  | 95.9            | 79.4            | 91.6       |
| #100                         | 7.3                                          | 9.2                 | 24.4                  | 86.3            | 49.2            | 74.9       |
| #120                         | 4.0                                          | 4.5                 | 8.7                   | 75.8            | 27.1            | 51.8       |
| #170                         | 2.1                                          | 1.3                 | 1.4                   | 62.7            | 4.1             | 7.5        |
| #200                         | 1.7                                          | 0.7                 | 1.2                   | 60.8            | 2.9             | 4.2        |
| STATISTICS (EXCLUDING SHELL) |                                              |                     |                       |                 |                 |            |
| MEDIAN GRAIN SIZE (mm)       | 0.265                                        | 0.231               | 0.171                 | --              | 0.150           | 0.123      |
| MEAN GRAIN SIZE (mm)         | 0.393                                        | 0.416               | 0.371                 | --              | 0.149           | 0.127      |
| SORTING ( $\sigma$ )         | 1.278                                        | 1.203               | --                    | --              | 0.471           | 0.435      |
| Munsell Color                | Yellowish Brown                              | Light Brownish Gray | Light Yellowish Brown | Yellowish Brown | Yellowish Brown | Brown      |



