Supplemental Materials Table 1. Results of ANOVA Comparing Percent Sand (0.063–2 mm) by Site Feature.

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| Test for equal means: | Sum of sqrs | df | Mean square | F | p (same) |
| Between groups: | 14621.1 | 3 | 4873.68 | 19.9 | 2.92E-09 |
| Within groups: | 15922.3 | 65 | 244.958 | Permutation p (n=99999) |  |
| Total: | 30543.3 | 68 | 1.00E-05 |  |  |

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| --- | --- | --- | --- | --- |
| 95% CI for group differences (Multiple-t) | bird mound | sub-mound shell platform | shoreline ridge | platform mound |
| bird mound |  | -55.62; -10.79 | -69.29; -23.95 | -33.02; 7.443 |
| sub-mound shell platform | 10.79; 55.62 |  | -30.46; 3.639 | 6.775; 34.06 |
| shoreline ridge | 23.95; 69.29 | -3.639; 30.46 |  | 19.77; 47.89 |
| platform mound | -7.443; 33.02 | -34.06; -6.775 | -47.89; -19.77 |  |

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| --- | --- | --- | --- | --- |
| Tukey's pairwise (Q/p(same)) | bird mound | sub-mound shell platform | shoreline ridge | platform mound |
| bird mound |  | 0.0008347 | 2.80E-06 | 0.3216 |
| sub-mound shell platform | 5.702 |  | 0.1513 | 7.27E-04 |
| shoreline ridge | 7.913 | 3.027 |  | 6.47E-08 |
| platform mound | 2.433 | 5.76 | 9.259 |  |

|  |  |
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| Kruskal-Wallis test for equal medians |  |
| H (chi2): | 28.58 |
| Hc (tie corrected): | 28.58 |
| p (same): | 2.75E-06 |
| There is a significant difference between sample medians | |

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| Mann-Whitney pairwise sequential Bonferroni significance | bird mound | sub-mound shell platform | shoreline ridge | platform mound |
| bird mound |  | 0.005779 | 0.00719 | 0.01466 |
| sub-mound shell platform | 0.005779 |  | 0.05349 | 1.84E-04 |
| shoreline ridge | 0.00719 | 0.05349 |  | 0.0002179 |
| platform mound | 0.01466 | 1.84E-04 | 0.0002179 |  |

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| --- | --- | --- | --- | --- |
| Dunn's Post Hoc sequential Bonferroni Significance | bird mound | sub-mound shell platform | shoreline ridge | platform mound |
| bird mound |  | 0.0004142 | 5.05E-05 | 0.07323 |
| sub-mound shell platform | 0.0004142 |  | 4.55E-01 | 0.001663 |
| shoreline ridge | 5.05E-05 | 0.4545 |  | 7.57E-05 |
| platform mound | 7.32E-02 | 1.66E-03 | 7.57E-05 |  |

*Note*:Highlighted cells indicate statistically significant results (*p* < 0.05).