**Supplementary Table 4.** Comparative Statistical Outcomes of Beta and Alpha Diversity Indices, including PERMANOVA (strata), Shannon Diversity Index, Faith's Phylogenetic Diversity (PD) and Observed Features.

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| --- | --- | --- | --- |
| **Comparison by factors** | **Analysis** | **p-value** | **q-value** |
| August (n=17) vs February (n=18) – Figure 1 | PERMANOVA (strata) | 0.001 | N/A |
| Shannon Index | 0.005564 | 0.005564 |
| Faith-pd | 0.390822 | 0.390822 |
| Observed Features | 0.002669 | 0.002669 |
| Large (n=17) vs Small (n=6) – Figure 3 | PERMANOVA (strata) | 0.789 | N/A |
| Shannon Index | 0.141482 | 0.141482 |
| Faith-pd | 0.441209 | 0.441209 |
| Observed Features | 0.528612 | 0.528612 |