Tabela 1:

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| Environmental variables | Taxonomic |  |  |  |  | Phylogenetic |  |  |  |  |  |
|  | Total |  | Turnover |  | Nestedness | Total |  | Turnover |  |  |  |
|  | F ratio | P value |  |  |  |  |  |  |  |  |  |
| Turbidity | 1.39 | 0.22 | 2.13 | 0.09 |  |  |  |  |  |  |  |
| pH | 2.31 | 0.03 | 2.51 | 0.08 |  |  |  |  |  |  |  |
| Conductivity | 1.19 | 0.32 | 1.68 | 0.21 |  |  |  |  |  |  |  |
| Dissolved O2 | 0.53 | 0.79 | 0.72 | 0.58 |  |  |  |  |  |  |  |
| Altitude | 0.76 | 0.61 | -0.11 |  |  |  |  |  |  |  |  |
| Temperature | 1.06 | 0.38 |  |  |  |  |  |  |  |  |  |
| Depth | 0.76 | 0.60 |  |  |  |  |  |  |  |  |  |
| Velocity | 1.85 | 0.09 |  |  |  |  |  |  |  |  |  |
| Basin | 1.98 | 0.06 |  |  |  |  |  |  |  |  |  |
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