**Table S5:** Details about the AMD and EBPR metagenomes used for evaluation of the tools. The AMD metagenome was downloaded from <http://data.imicrobe.us/project/view/1>, while the EBPR metagenome was downloaded from <http://data.imicrobe.us/project/view/22>.

|  |  |  |  |
| --- | --- | --- | --- |
| Study site | Sequencing technology | Total reads | Average read length (bp) |
| Acid mine drainage (AMD) | Sanger | 319,166 | 1021 |
| Enhanced biological phosphorus removal (EBPR) | Sanger | 224,516 | 985 |