|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chimney location** | **Meta-genome libraries** | **Meta-transcriptome libraries** | **16S rRNA amplicon libraries (DNA)** | **16S rRNA amplicon libraries (RNA)** | **Cells per mL** | **Avg T (°C)** | **Max T (°C)** | **pH** | **End-member sulfide (mmol/kg)** | **Sulfide (mmol/kg)** | **Sulfate (mmol/kg)** | **S (mmol/kg)** | **Mg (mmol/kg)** | **Sr (mmol/kg)** |
| Camel Humps | 2 | 0 | 4 | 0 | 4.28E+04 | 24.6 | 40.8 | 8.14 | 0.30 | 0.019 | 23.7 | 24.6 | 46.6 | 0.0820 |
| Sombrero1 | 3 | 1 | 7 | 1 | 5.95E+04 | 11.3 | 13.2 | 7.95 | 0.40 | 0.002 | 27.1 | 27.8 | 53.8 | 0.0819 |
| Sombrero2 | 2 | 0 | 6 | 1 | 6.29E+04 | 47.4 | 51.5 | 8.68 | 0.40 | 0.117 | 18.2 | 19.5 | 35.7 | 0.0847 |
| Marker 3 | 2 | 0 | 6 | 0 | 6.29E+04 | 18.3 | 20.9 | 8.62 | 1.20 | 0.204 | 22.9 | 23.4 | 45.0 | 0.0835 |
| Marker C | 0 | 0 | 1 | 1 | 3.77E+04 | 74.7 | 79.7 | 10.13 | 1 | 0.391 | 16.3 | 17.5 | 31.3 | 0.0840 |
| Calypso | 2 | 0 | 6 | 1 | 4.80E+04 | 21.5 | 23.5 | 9.27 | 2.10 | 1.263 | 14.7 | 16.3 | 29.5 | 0.0839 |
| Marker 2 | 2 | 1 | 3 | 1 | 2.55E+04 | 53.5 | 58.3 | 9.45 | 2.70 | 1.758 | 7.7 | 11.0 | 14.9 | 0.0867 |
| Marker 8 | 0 | 0 | 1 | 0 | 7.48E+04 | 35.6 | 41.6 | 9.90 | 3.40 | 1.817 | 9.2 | 12.0 | 18.7 | 0.0847 |

**Table 1.** Overview of hydrothermal fluid samples collected from Lost City chimneys. Cell numbers are the median of all samples collected from that location. Temperatures and chemistry values are reported for one representative sample collected from that location, typically the sample for which the most chemistry and/or sequence data was available. End-member sulfide is from Aquino et al. (2021).