Table 3. Trace element compositions (ppm) of Triassic sandstones from the Hexi Corridor and the Yaoshan section

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample ID | Location | Trace elements (ppm) | | | | | | | | | | |
| Sc | Co | Rb | Sr | Y | Th | U | Nb | Zr | Hf | Ba |
| H1 | Shuanglonggou | 5.13 | 4.22 | 84.40 | 141.00 | 13.80 | 9.63 | 1.48 | 8.07 | 31.10 | 1.25 | 1026.00 |
| H2 | Tiaozigou | 9.28 | 8.90 | 97.90 | 261.00 | 18.30 | 8.24 | 1.42 | 9.70 | 74.70 | 2.39 | 987.00 |
| H3 | Tiaozigou | 3.48 | 3.23 | 81.00 | 177.00 | 10.20 | 7.65 | 1.26 | 5.58 | 33.80 | 1.29 | 656.00 |
| H4 | Dongqinggou | 7.48 | 10.40 | 70.80 | 205.00 | 11.50 | 7.12 | 1.50 | 8.01 | 75.60 | 2.53 | 794.00 |
| H5 | Dongqinggou | 5.07 | 7.93 | 54.10 | 42.60 | 10.20 | 7.41 | 1.67 | 7.39 | 76.30 | 2.45 | 161.00 |
| H6 | Mahuanggou | 4.33 | 5.77 | 47.90 | 116.00 | 13.60 | 5.35 | 1.60 | 6.29 | 47.90 | 1.58 | 566.00 |
| H7 | Mahuanggou | 2.72 | 4.05 | 56.20 | 89.10 | 7.96 | 5.34 | 1.31 | 3.85 | 46.80 | 1.47 | 932.00 |
| E1 | Yaoshan | 2.61 | 2.57 | 63.60 | 103.00 | 7.89 | 5.08 | 1.01 | 4.46 | 60.10 | 2.04 | 789.00 |
| E2 | Yaoshan | 4.87 | 4.04 | 75.90 | 68.20 | 12.50 | 8.29 | 1.48 | 9.91 | 91.00 | 3.06 | 512.00 |
| E3 | Yaoshan | 4.72 | 5.89 | 62.60 | 60.60 | 14.30 | 11.00 | 1.92 | 12.80 | 137.00 | 4.40 | 464.00 |
| E4 | Yaoshan | 1.60 | 3.65 | 54.60 | 66.40 | 6.89 | 4.80 | 1.19 | 3.13 | 49.00 | 1.64 | 704.00 |
| E5 | Yaoshan | 6.58 | 5.57 | 66.00 | 240.00 | 13.10 | 8.77 | 2.49 | 9.74 | 82.90 | 2.77 | 1794.00 |
| Detection Limit (Unit:ppm) | | 0.001 | 0.002 | 0.001 | 0.01 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.012 |