On-line Supplementary Table 2 The analytical data of major ionic compositions for the soil-water extraction of the aeolian sediments from the Taklamakan and Badanjilin deserts

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sample name | NaP+P  (mg/l) | KP+P  (mg/l) | MgP2+P (mg/l) | CaP2+P (mg/l) | ClP-P  (mg/l) | SOR4RP2- P(mg/l) | HCOR3RP-P (mg/l) |
| B1 | 4.30 | 3.66 | 0.46 | 2.03 | 7.62 | 1.53 | 13.0 |
| B3 | 2.53 | 1.81 | 0.32 | 1.82 | 2.74 | 0.50 | 8.39 |
| B4 | 10.0 | 1.37 | 0.28 | 1.23 | 2.87 | 0.53 | 0.46 |
| B5-1 | 3.85 | 1.68 | 0.38 | 1.44 | 1.32 | 0.90 | 4.99 |
| B5-2 | 3.91 | 2.80 | 0.50 | 2.03 | 6.99 | 1.61 | 4.25 |
| B5-3 | 6.07 | 3.22 | 0.33 | 1.63 | 2.10 | 1.16 | 1.30 |
| B5-4 | 5.71 | 3.54 | 0.36 | 1.67 | 1.67 | 1.11 | 5.78 |
| B6-2 | 5.11 | 3.22 | 0.35 | 1.24 | 1.69 | 0.80 | 0.77 |
| B6-3 | 3.62 | 2.04 | 0.42 | 2.04 | 7.12 | 1.21 | 5.39 |
| B7-1 | 2.80 | 1.19 | 0.27 | 0.81 | 2.12 | 0.67 | 2.08 |
| B7-2 | 2.99 | 1.27 | 0.34 | 1.85 | 1.63 | 0.42 | 7.00 |
| B7-3 | 3.71 | 2.75 | 0.38 | 2.13 | 1.64 | 1.20 | 17.5 |
| B8-1 | 4.16 | 1.32 | 0.77 | 1.35 | 4.33 | 1.76 | 1.90 |
| B8-2 | 3.79 | 1.06 | 0.34 | 1.28 | 2.90 | 0.96 | 0.98 |
| B8-3 | 3.64 | 1.59 | 0.45 | 2.01 | 5.44 | 0.66 | 9.08 |
| B10 | 9.45 | 1.37 | 0.24 | 0.88 | 4.60 | 0.91 | 4.01 |
| B11 | 3.77 | 1.24 | 0.43 | 1.67 | 3.70 | 0.31 | 8.58 |
| B12 | 4.48 | 4.18 | 0.70 | 4.13 | 2.05 | 1.67 | 17.5 |
| T1-1 | 20.7 | 2.77 | 0.65 | 2.49 | 45.1 | 0.77 | 33.5 |
| T1-3 | 15.6 | 1.09 | 0.59 | 1.55 | 19.6 | 1.33 | 34.4 |
| T2-4 | 6.84 | 2.05 | 0.67 | 2.36 | 10.9 | 2.74 | 22.3 |
| T2-5 | 21.4 | 3.34 | 0.57 | 2.43 | 49.4 | 4.51 | 38.5 |
| T3 | 62.0 | 6.97 | 1.25 | 4.21 | 162 | 9.46 | 68.8 |
| T4 | 43.9 | 6.03 | 0.91 | 2.42 | 89.4 | 1.72 | 53.1 |
| T5-3 | 107 | 9.48 | 1.01 | 3.67 | 257 | 3.35 | 80.8 |
| T5-4 | 72.9 | 9.26 | 1.47 | 4.44 | 178 | 6.06 | 52.4 |
| T5-8 | 125 | 14.6 | 2.70 | 9.57 | 331 | 14.7 | 96.0 |
| T7-2 | 10375 | 234 | 26.3 | 325.4 | 15091 | 1699 | 19203 |
| T7-3 | 9255 | 117 | 11.2 | 293 | 23841 | 2013 | 12419 |
| T10 | 16.8 | 3.77 | 0.56 | 3.08 | 24.1 | 4.01 | 17.3 |
| T18 | 55.3 | 8.19 | 1.35 | 5.32 | 156 | 6.27 | 34.4 |