Appendix Table 02. Elemental concentrations (µg L-1) of the surface water at each station in the Tonle Sap Lake in the rainy season. REEs; total values of the rare earth elements. DL; Detection Limit.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Element | DL | L01 | L02 | L03 | L04 | L05 | L06 | L07 | L08 | L09 | L10 | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18 | Mean±SD |
| Ca | 0.7 | 8880 | 9290 | 8520 | 8730 | 8890 | 9620 | 9890 | 10200 | 10300 | 9770 | 10000 | 9600 | 9840 | 9600 | 9440 | 11300 | 6740 | 11200 | 9550±1020 |
| Na | 8 | 3180 | 3320 | 3150 | 3240 | 3310 | 3560 | 3720 | 3730 | 3840 | 3700 | 3700 | 3680 | 3510 | 3580 | 3620 | 4350 | 4450 | 4060 | 3650±360 |
| Si | 1 | 2030 | 2490 | 2230 | 2730 | 2980 | 3250 | 4420 | 4560 | 4280 | 3890 | 3930 | 3390 | 4340 | 4290 | 3640 | 5980 | 6780 | 5480 | 3930±1270 |
| Mg | 0.8 | 2290 | 2380 | 2260 | 2310 | 2310 | 2470 | 2510 | 2520 | 2560 | 2480 | 2490 | 2550 | 2460 | 2430 | 2540 | 2990 | 2070 | 3060 | 2480±240 |
| K | 20 | 1370 | 1350 | 1420 | 1420 | 1410 | 1380 | 1290 | 1300 | 1460 | 1470 | 1430 | 1460 | 1320 | 1410 | 1470 | 1470 | 1500 | 1330 | 1400±70 |
| Al | 0.7 | 47 | 39 | 25 | 24 | 128 | 110 | 126 | 150 | 69 | 67 | 81 | 97 | 97 | 81 | 49 | 13 | 567 | 0 | 98±124 |
| Fe | 0.03 | 39 | 28 | 36 | 47 | 121 | 84 | 64 | 76 | 34 | 37 | 38 | 50 | 63 | 37 | 37 | 73 | 741 | 247 | 103±167 |
| Sr | 0.02 | 50.4 | 51.3 | 50.0 | 51.7 | 49.1 | 52.2 | 54.5 | 55.7 | 55.2 | 53.8 | 53.8 | 53.1 | 53.7 | 51.5 | 53.8 | 66.5 | 42.0 | 67.7 | 53.7±5.8 |
| Ba | 0.04 | 22.1 | 22.5 | 23.4 | 24.2 | 22.2 | 22.3 | 22.7 | 23.1 | 22.0 | 21.7 | 20.9 | 21.7 | 23.3 | 20.4 | 21.4 | 28.7 | 27.6 | 21.7 | 22.9±2.1 |
| Mn | 0.01 | 0.7 | 0.5 | 0.5 | 0.8 | 1.0 | 1.2 | 1.1 | 1.4 | 0.5 | 0.5 | 0.8 | 1.3 | 0.7 | 0.5 | 1.1 | 3.9 | 22.3 | 12.6 | 2.9±5.6 |
| B | 0.4 | 6.7 | 6.7 | 7.0 | 7.5 | 7.9 | 7.4 | 7.8 | 7.7 | 8.7 | 8.1 | 8.2 | 7.5 | 7.7 | 8.5 | 7.4 | 9.4 | 10.3 | 9.3 | 8.0±1.0 |
| P | 5 | 43.1 | 40.8 | 18.9 | 6.9 | 5.5 | 16.9 | < DL | < DL | 8.7 | 7.4 | < DL | < DL | < DL | < DL | 8.0 | < DL | 5.4 | < DL | 9.9± 2.8 |
| Zn | 0.03 | 0.2 | 0.2 | 0.5 | 0.3 | 2.2 | 0.9 | 0.5 | 0.7 | 1.1 | 4.7 | 3.5 | 2.4 | 0.8 | 0.9 | 3.8 | 0.5 | 17.1 | 1.2 | 2.3±3.9 |
| Ti | 0.4 | 0.6 | 0.4 | < DL | < DL | 1.7 | 1.3 | 1.7 | 1.5 | 0.7 | 1.0 | 0.9 | 0.7 | 0.8 | 0.8 | 0.4 | < DL | 11.8 | < DL | 1.4±2.6 |
| Rb | 0.01 | 2.74 | 2.67 | 2.90 | 2.95 | 3.24 | 3.08 | 2.68 | 2.76 | 2.76 | 2.90 | 2.74 | 2.79 | 2.82 | 2.56 | 3.00 | 4.46 | 4.87 | 4.41 | 3.13±0.69 |
| V | 0.001 | 0.55 | 0.42 | 0.35 | 0.33 | 0.46 | 0.45 | 0.62 | 0.71 | 0.72 | 0.63 | 0.69 | 0.61 | 0.54 | 0.64 | 0.51 | 0.15 | 0.92 | 0.09 | 0.52±0.20 |
| As | 0.01 | 1.32 | 1.09 | 1.02 | 1.01 | 1.38 | 1.13 | 0.92 | 0.89 | 0.77 | 0.87 | 0.79 | 0.78 | 0.89 | 0.76 | 1.01 | 0.96 | 1.28 | 0.76 | 0.98±0.20 |
| Cu | 0.03 | 0.71 | 0.58 | 0.61 | 0.50 | 0.60 | 0.84 | 0.99 | 0.92 | 1.09 | 1.03 | 1.78 | 1.00 | 0.82 | 0.66 | 0.71 | 0.33 | 1.69 | 0.35 | 0.85±0.39 |

Appendix Table 02 (Continued).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Element | DL | L01 | L02 | L03 | L04 | L05 | L06 | L07 | L08 | L09 | L10 | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18 | Mean±SD |
| Li | 0.3 | 0.61 | 0.78 | 0.47 | 0.61 | 0.71 | 0.51 | 0.56 | 0.67 | 0.67 | 0.81 | 0.62 | 0.68 | 0.73 | 0.73 | 0.63 | 0.79 | 1.18 | 0.82 | 0.70±0.16 |
| Ni | 0.1 | < DL | < DL | < DL | < DL | < DL | < DL | 0.45 | 0.26 | < DL | < DL | < DL | < DL | 0.81 | < DL | < DL | 1.10 | 1.21 | 0.25 | 0.23±0.40 |
| Cr | 0.01 | 0.067 | 0.040 | 0.045 | 0.037 | 0.123 | 0.110 | 0.131 | 0.146 | 0.129 | 0.100 | 0.136 | 0.113 | 0.088 | 0.108 | 0.087 | 0.033 | 0.430 | 0.037 | 0.109±0.89 |
| Zr | 0.003 | 0.040 | 0.044 | 0.002 | 0.015 | 0.127 | 0.082 | 0.086 | 0.067 | 0.108 | 0.049 | 0.064 | 0.064 | 0.050 | 0.076 | 0.039 | 0.010 | 0.602 | < DL | 0.085±0.134 |
| Co | 0.02 | 0.029 | 0.024 | 0.022 | 0.029 | 0.022 | < DL | 0.027 | 0.043 | 0.032 | 0.032 | 0.030 | 0.033 | 0.023 | 0.041 | 0.025 | 0.035 | 0.142 | 0.052 | 0.036±0.028 |
| Pb | 0.002 | 0.047 | 0.040 | 0.049 | 0.047 | 0.086 | 0.097 | 0.080 | 0.068 | 0.036 | 0.042 | 0.043 | 0.035 | 0.082 | 0.037 | 0.050 | 0.055 | 0.543 | 0.206 | 0.091±0.120 |
| Mo | 0.006 | 0.165 | 0.148 | 0.121 | 0.105 | 0.127 | 0.139 | 0.170 | 0.175 | 0.178 | 0.173 | 0.163 | 0.139 | 0.138 | 0.184 | 0.136 | 0.068 | 0.093 | 0.072 | 0.139±0.036 |
| Sb | 0.001 | 0.189 | 0.142 | 0.128 | 0.124 | 0.137 | 0.158 | 0.190 | 0.194 | 0.209 | 0.216 | 0.201 | 0.178 | 0.174 | 0.190 | 0.173 | 0.106 | 0.088 | 0.099 | 0.161±0.040 |
| Ga | 0.02 | 0.030 | < DL | < DL | < DL | 0.033 | 0.025 | 0.039 | 0.039 | 0.032 | 0.032 | 0.038 | 0.025 | < DL | 0.036 | < DL | < DL | 0.135 | < DL | 0.030±0.029 |
| U | 0.002 | 0.028 | 0.023 | 0.018 | 0.018 | 0.031 | 0.028 | 0.032 | 0.034 | 0.034 | 0.029 | 0.038 | 0.023 | 0.024 | 0.030 | 0.022 | 0.010 | 0.048 | 0.005 | 0.026±0.010 |
| Se | 0.03 | 0.038 | 0.049 | 0.047 | 0.031 | 0.038 | 0.041 | 0.051 | 0.052 | 0.040 | 0.040 | 0.055 | 0.053 | 0.047 | 0.039 | 0.043 | 0.033 | 0.065 | 0.038 | 0.044±0.009 |
| Cs | 0.02 | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | 0.026 | < DL | < DL | < DL | < DL | 0.054 | < DL | < DL |
| W | 0.002 | 0.119 | 0.101 | 0.068 | 0.057 | 0.047 | 0.029 | 0.028 | 0.018 | 0.070 | 0.070 | 0.038 | 0.046 | 0.027 | 0.075 | 0.042 | 0.007 | 0.028 | 0.021 | 0.049±0.030 |
| Sn | 0.003 | 0.014 | 0.008 | 0.005 | 0.006 | 0.011 | 0.007 | 0.014 | 0.011 | 0.021 | 0.021 | 0.017 | 0.013 | 0.013 | 0.015 | 0.026 | 0.007 | 0.058 | 0.016 | 0.016±0.012 |
| Ge | 0.01 | 0.010 | < DL | < DL | < DL | < DL | < DL | < DL | 0.011 | 0.010 | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL | < DL |
| Cd | 0.001 | 0.001 | 0.001 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.002 | 0.002 | 0.003 | 0.001 | 0.003 | 0.001 | 0.002±0.001 |
| REEs |  | 0.22 | 0.15 | 0.19 | 0.19 | 0.38 | 0.31 | 0.23 | 0.25 | 0.16 | 0.14 | 0.18 | 0.18 | 0.23 | 0.17 | 0.14 | 0.15 | 1.83 | 0.11 | 0.29±0.39 |