Major Element Concentrations of the <2 μm Fraction of Selected Samples from Saskatchewan Saline Lakes.

| **ID/Class** | **Al** | **B** | **Be** | **Ca** | **Fe** | **K** | **Li** | **Mg** | **Mn** | **Mo** | **Na** | **P** | **S** | **Ti** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | μg g-1 | | | | | | | | | | | | | |
| **147-A** | 1000 | 11 | 0.13 | 550 | 630 | 170 | 4.3 | 530 | 9.1 | 0.0067 | 1800 | 18 | 270 | 9.6 |
| **148-C** | 410 | 15 | 0.055 | 370 | 410 | 77 | ND | 330 | 7.6 | 0.015 | 8700 | 15 | 1500 | 9.2 |
| **149-B** | 560 | 17 | 0.071 | 550 | 430 | 110 | ND | 450 | 9.3 | 0.0071 | 7400 | 15 | 1300 | 6.9 |
| **151-B** | 410 | 12 | 0.05 | 3000 | 410 | 130 | 7.5 | 3300 | 69 | ND | 910 | 12 | 160 | 6.3 |
| **152-B** | 260 | 22 | 0.055 | 470 | 3200 | 130 | ND | 580 | 51 | 0.071 | 4800 | 42 | 750 | 7.1 |
| **153-B** | 360 | 27 | 0.093 | 350 | 970 | 140 | ND | 300 | 16 | 0.018 | 7800 | 22 | 1400 | 5.4 |
| **162-B** | 590 | 10 | 0.067 | 2300 | 430 | 130 | 13 | 3400 | 17 | ND | 220 | 30 | 270 | 7.9 |
| **163-B** | 410 | 7.6 | 0.046 | 3200 | 410 | 110 | 10 | 3400 | 17 | ND | 260 | 24 | 260 | 6.7 |
| **181-C** | 520 | 25 | 0.065 | 470 | 380 | 82 | ND | 620 | 10 | ND | 8300 | 13 | 1600 | 9.8 |
| **182-A** | 1000 | 10 | 0.13 | 1200 | 730 | 200 | 6.3 | 1200 | 15 | 0.011 | 1300 | 26 | 500 | 10 |
| **183-A** | 890 | 12 | 0.11 | 2000 | 570 | 190 | 8.8 | 2200 | 22 | 0.0085 | 570 | 24 | 170 | 9.6 |
| **187-A** | 440 | 13 | 0.047 | 3500 | 300 | 92 | 9.9 | 3500 | 22 | ND | 440 | 18 | 120 | 5 |
| **188-A** | 410 | 13 | 0.042 | 4000 | 320 | 79 | 9.4 | 3300 | 22 | 0.01 | 420 | 20 | 120 | 4.4 |
| **195-A** | 1000 | 12 | 0.11 | 1700 | 590 | 240 | 9.5 | 1600 | 13 | 0.02 | 610 | 20 | 140 | 10 |
| **196-B** | 1000 | 14 | 0.12 | 2200 | 750 | 220 | 11 | 2000 | 15 | ND | 830 | 19 | 120 | 12 |
| **197-C** | 820 | 13 | 0.12 | 2200 | 910 | 260 | 4.9 | 700 | 22 | 0.11 | 2400 | 14 | 690 | 7.5 |
| **202-C** | 350 | 57 | 0.057 | 850 | 570 | 100 | 3.9 | 1500 | 5.8 | 0.063 | 7400 | 10 | 1400 | 4.4 |
| **203-C** | 440 | 30 | 0.10 | 400 | 1100 | 120 | 6.6 | 1900 | 7.8 | 0.03 | 7000 | 15 | 1100 | 5.6 |
| **204-C** | 280 | 27 | 0.058 | 190 | 590 | 74 | ND | 740 | 4 | 0.04 | 10000 | 9 | 2000 | 4.0 |
| **227-A** | 850 | 17 | 0.10 | 450 | 560 | 130 | 3.3 | 660 | 16 | 0.019 | 4400 | 18 | 780 | 10 |
| **228-A** | 1300 | 4.3 | 0.13 | 970 | 700 | 130 | 5.0 | 990 | 13 | 0.034 | 520 | 18 | 470 | 15 |
| **234-A** | 780 | 19 | 0.073 | 3000 | 430 | 160 | 7.5 | 3000 | 13 | ND | 1900 | 20 | 410 | 8.8 |
| **235-B** | 740 | 6.9 | 0.07 | 3200 | 410 | 150 | 8.4 | 3400 | 14 | ND | 440 | 17 | 440 | 9 |
| **240-B** | 850 | 13 | 0.082 | 2700 | 480 | 160 | 8.1 | 2700 | 13 | ND | 960 | 23 | 210 | 10 |
| **242-C** | 850 | 9.0 | 0.08 | 3000 | 480 | 170 | 8.5 | 3300 | 15 | ND | 1200 | 17 | 340 | 11 |
| **265-A** | 1100 | 21 | 0.11 | 920 | 570 | 130 | 9.7 | 3500 | 13 | 0.01 | 1400 | 18 | 410 | 13 |
| **266-A** | 1000 | 15 | 0.10 | 1600 | 540 | 120 | 8.2 | 2700 | 12 | 0.042 | 1500 | 16 | 530 | 12 |
| **267-A** | 930 | 18 | 0.093 | 1100 | 480 | 110 | 10 | 3700 | 12 | 0.015 | 1100 | 17 | 410 | 10 |
| **294-C** | 780 | 22 | 0.078 | 2000 | 610 | 130 | 5.9 | 3000 | 18 | 0.0073 | 3300 | 21 | 530 | 7.9 |
| **296-C** | 590 | 11 | 0.064 | 2000 | 430 | 92 | ND | 1600 | 11 | ND | 6100 | 16 | 1000 | 5.6 |
| **297-C** | 590 | 19 | 0.065 | 2000 | 430 | 110 | ND | 1900 | 15 | ND | 5700 | 11 | 810 | 6.3 |
| **301-C** | 330 | 25 | 0.039 | 500 | 3400 | 74 | 4.8 | 1600 | 130 | ND | 4400 | 550 | 940 | 7.1 |
| **303-C** | 890 | 23 | 0.094 | 1200 | 470 | 160 | 3.5 | 660 | 13 | ND | 5700 | 15 | 840 | 7.9 |
| **307-A** | 850 | 33 | 0.087 | 1500 | 470 | 120 | 12 | 3400 | 18 | 0.013 | 2100 | 26 | 620 | 8.8 |
| **308-C** | 780 | 29 | 0.08 | 1300 | 480 | 120 | 12 | 3600 | 22 | ND | 3500 | 16 | 750 | 9.8 |
| **309-C** | 820 | 13 | 0.092 | 62 | 380 | 130 | ND | 370 | 4.2 | 0.008 | 9100 | 9.7 | 1600 | 6.5 |
| **MESS-3a** | 630 | - | 0.11 | 370 | 680 | 140 | 0.61 | 530 | 5.6 | 0.021 | 520 | 32 | 50 | - |
| **MESS-3b** | 740 | - | 0.12 | 370 | 680 | 160 | 0.56 | 530 | 5.8 | 0.02 | 520 | 32 | 50 | - |
| **MESS-3c** | 850 | - | 0.12 | 400 | 680 | 140 | 0.55 | 580 | 5.6 | 0.026 | 520 | 36 | 56 | - |
| **MESS-3d** | 890 | - | 0.14 | 370 | 680 | 130 | ND | 620 | 6.4 | 0.025 | 520 | 31 | 56 | - |
| **MESS-3\*** | 740 | - | ND | 350 | 630 | 130 | 0.58 | 530 | 5.5 | 0.022 | 480 | 32 | 53 | - |
| **Blank** | <1.9 | <1.9 | <0.001 | <2.5 | <0.9 | <0.51 | <2.9 | <0.82 | <0.01 | <0.01 | <3.3 | 0.65 | <0.94 | <0.1 |
| **Blank** | <1.9 | <1.9 | <0.001 | <2.5 | <0.9 | <0.51 | <2.9 | <0.82 | <0.01 | <0.01 | <3.3 | 0.65 | <0.94 | <0.1 |
| **Blank** | <1.9 | <1.9 | <0.001 | <2.5 | <0.9 | <0.51 | <2.9 | <0.82 | <0.01 | <0.01 | <3.3 | 0.65 | <0.94 | <0.1 |
| **Blank** | <1.9 | <1.9 | <0.001 | <2.5 | <0.9 | <0.51 | <2.9 | <0.82 | <0.01 | <0.01 | <3.3 | 0.65 | <0.94 | <0.1 |

\*Expected values (Note Li standard used Control).

† Sampled below detection limits for Se.

‡ “ND” = Not Detected.

Minor Element Concentrations of the <2 μm Fraction of Samples from Saskatchewan Saline Lakes.

| **ID/class** | **Ag** | **As** | **Ba** | **Cd** | **Co** | **Cr** | **Cu** | **Ni** | **Pb** | **Sb** | **Sn** | **Sr** | **Tl** | **U** | **V** | **Zn** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | μg g-1 | | | | | | | | | | | | | | | |
| **147-A** | ND | 0.25 | 2.6 | ND | 0.25 | 0.85 | 0.47 | 0.65 | 0.087 | ND | ND | 0.94 | ND | ND | 1.7 | 1.2 |
| **148-C** | ND | 0.4 | 1.3 | ND | 0.17 | 0.48 | 2.1 | 0.46 | 0.092 | ND | 0.042 | 1.3 | ND | 0.059 | 0.88 | 0.93 |
| **149-B** | ND | 0.13 | 0.71 | ND | 0.19 | 0.46 | 1.2 | 0.53 | 0.053 | ND | 0.029 | 1.1 | ND | 0.05 | 0.82 | 0.78 |
| **151-B** | ND | 0.041 | 1.1 | ND | 0.17 | 0.31 | 0.33 | 0.34 | 0.045 | ND | ND | 4.0 | 0.01 | 0.059 | 0.61 | 0.47 |
| **152-B** | 0.004 | 2.0 | 2.8 | ND | 0.24 | 0.33 | 0.61 | 0.92 | 0.13 | 0.14 | ND | 0.63 | ND | 0.15 | 0.75 | 0.62 |
| **153-B** | ND | 0.15 | 1.6 | ND | 0.2 | 0.38 | 0.52 | 0.41 | 0.077 | ND | ND | 0.57 | ND | 0.084 | 1.0 | 0.7 |
| **162-B** | ND | 0.037 | 1.3 | ND | 0.13 | 0.38 | 0.31 | 0.31 | 0.077 | ND | ND | 4.5 | ND | 0.12 | 0.84 | 0.79 |
| **163-B** | ND | 0.019 | 0.87 | ND | 0.11 | 0.29 | 0.22 | 0.26 | 0.039 | ND | ND | 4.1 | ND | 0.11 | 0.67 | 0.49 |
| **181-C** | ND | 0.15 | 1.2 | ND | 0.17 | 0.48 | 1.3 | 0.39 | ND | ND | ND | 0.45 | ND | 0.12 | 1.0 | 0.99 |
| **182-A** | ND | 0.33 | 2.5 | ND | 0.27 | 0.79 | 0.54 | 0.65 | 0.10 | ND | ND | 1.4 | ND | 0.029 | 1.8 | 1.1 |
| **183-A** | ND | 0.24 | 1.6 | ND | 0.2 | 0.65 | 0.44 | 0.48 | 0.097 | ND | ND | 5.2 | ND | 0.046 | 1.5 | 1.0 |
| **187-A** | ND | 0.075 | 0.95 | ND | 0.12 | 0.29 | 0.19 | 0.22 | 0.043 | ND | ND | 11 | ND | 0.10 | 0.71 | 0.43 |
| **188-A** | 0.003 | 0.097 | 0.87 | ND | 0.11 | 0.27 | 0.17 | 0.22 | 0.046 | ND | ND | 16 | ND | 0.092 | 0.67 | 0.39 |
| **195-A** | ND | 0.061 | 2.0 | ND | 0.2 | 0.69 | 0.42 | 0.53 | 0.068 | ND | ND | 2.6 | ND | 0.021 | 1.5 | 0.91 |
| **196-B** | ND | 0.27 | 2.3 | ND | 0.29 | 0.75 | 0.52 | 0.6 | 0.087 | ND | ND | 4.7 | ND | 0.035 | 1.7 | 0.9 |
| **197-C** | ND | 0.59 | 3.9 | ND | 0.27 | 0.63 | 0.63 | 0.72 | 0.11 | 0.1 | ND | 5.9 | ND | 0.071 | 1.5 | 1.5 |
| **202-C** | ND | 0.93 | 1.0 | ND | 0.15 | 0.35 | 0.28 | 0.43 | 0.063 | ND | ND | 0.63 | ND | 0.084 | 0.77 | 0.52 |
| **203-C** | ND | 0.43 | 0.58 | ND | 0.25 | 0.62 | 0.72 | 0.63 | 0.14 | 0.14 | ND | 0.35 | ND | 0.13 | 1.3 | 2.2 |
| **204-C** | ND | 0.33 | 0.45 | ND | 0.17 | 0.37 | 0.54 | 0.46 | 0.077 | 0.09 | ND | 0.18 | ND | 0.13 | 0.82 | 0.66 |
| **227-A** | ND | 0.19 | 1.6 | ND | 0.22 | 0.71 | 0.55 | 0.65 | 0.063 | ND | ND | 0.86 | ND | ND | 1.6 | 0.88 |
| **228-A** | ND | 0.13 | 2.8 | ND | 0.22 | 0.90 | 0.46 | 0.56 | 0.072 | ND | ND | 1.4 | ND | ND | 2.2 | 0.95 |
| **234-A** | ND | 0.057 | 1.7 | ND | 0.13 | 0.48 | 0.33 | 0.31 | 0.045 | ND | ND | 4.1 | ND | 0.046 | 1.0 | 0.59 |
| **235-B** | ND | 0.044 | 1.7 | ND | 0.13 | 0.46 | 0.24 | 0.31 | 0.041 | ND | ND | 5.0 | ND | 0.037 | 1.0 | 0.54 |
| **240-B** | ND | 0.075 | 1.8 | ND | 0.15 | 0.54 | 0.31 | 0.36 | 0.058 | ND | ND | 3.9 | ND | 0.036 | 1.1 | 0.71 |
| **242-C** | ND | 0.051 | 1.7 | ND | 0.15 | 0.52 | 0.28 | 0.34 | 0.048 | ND | ND | 4.6 | ND | 0.05 | 1.2 | 0.64 |
| **265-A** | ND | 0.19 | 2.2 | ND | 0.19 | 0.65 | 0.38 | 0.44 | 0.068 | ND | ND | 2.2 | ND | 0.023 | 1.6 | 0.84 |
| **266-A** | ND | 0.19 | 2.2 | ND | 0.17 | 0.60 | 0.38 | 0.41 | 0.063 | ND | ND | 5.1 | ND | 0.059 | 1.4 | 0.77 |
| **267-A** | ND | 0.12 | 2.0 | ND | 0.16 | 0.54 | 0.38 | 0.37 | 0.058 | ND | ND | 3.1 | ND | 0.063 | 1.3 | 0.72 |
| **294-C** | ND | 0.52 | 1.1 | ND | 0.22 | 0.40 | 0.39 | 0.34 | 0.068 | ND | ND | 4.0 | ND | 0.11 | 0.8 | 0.75 |
| **296-C** | ND | 0.43 | 1.5 | ND | 0.092 | 0.31 | 0.38 | 0.2 | 0.053 | ND | ND | 2.5 | ND | 0.15 | 0.69 | 0.48 |
| **297-C** | ND | 0.091 | 0.95 | ND | 0.1 | 0.31 | 0.17 | 0.19 | 0.048 | ND | ND | 2.6 | ND | 0.16 | 0.63 | 0.55 |
| **301-C** | ND | 9.6 | 0.56 | ND | 0.19 | 0.27 | 0.83 | 0.22 | ND | ND | ND | 2.2 | ND | 0.37 | 0.94 | 1.8 |
| **303-C** | ND | 0.092 | 1.1 | 0.01 | 0.14 | 0.46 | 0.42 | 0.29 | 0.058 | ND | ND | 1.5 | ND | 0.16 | 0.94 | 0.82 |
| **307-A** | ND | 0.20 | 1.5 | ND | 0.14 | 0.48 | 0.28 | 0.34 | 0.058 | ND | ND | 4.5 | ND | 0.11 | 1.2 | 0.68 |
| **308-C** | ND | 0.20 | 1.2 | ND | 0.12 | 0.48 | 0.25 | 0.22 | 0.053 | ND | ND | 2.2 | ND | 0.11 | 0.98 | 0.67 |
| **309-C** | ND | 0.17 | 1.5 | ND | 0.097 | 0.46 | 0.25 | 0.26 | 0.042 | ND | ND | 0.34 | ND | 0.13 | 1.0 | 0.67 |
| **MESS-3a** | ND | 0.24 | 2.3 | ND | 0.2 | 0.58 | 0.47 | 0.61 | 0.11 | ND | ND | 0.70 | ND | ND | 1.5 | 1.4 |
| **MESS-3b** | ND | 0.23 | 2.4 | ND | 0.2 | 0.63 | 0.46 | 0.60 | 0.11 | ND | ND | 0.78 | ND | ND | 1.6 | 1.4 |
| **MESS-3c** | ND | 0.24 | 2.5 | ND | 0.2 | 0.65 | 0.5 | 0.61 | 0.11 | ND | ND | 0.83 | ND | ND | 1.7 | 1.4 |
| **MESS-3d** | ND | 0.24 | 2.8 | ND | 0.2 | 0.75 | 0.5 | 0.61 | 0.10 | ND | ND | 0.88 | ND | 0.031 | 1.9 | 1.4 |
| **MESS-3\*** | ND | 0.24 | 2.5 | ND | 0.2 | 0.69 | 0.49 | 0.63 | 0.092 | ND | ND | 0.73 | ND | ND | 1.6 | 1.4 |
| **Blank** | <0.002 | <0.01 | <0.004 | <0.01 | <0.01 | <0.02 | <0.03 | <0.02 | <0.02 | <0.06 | <0.02 | <0.01 | <0.01 | <0.02 | <0.02 | <0.05 |
| **Blank** | <0.002 | <0.01 | <0.004 | <0.01 | <0.01 | <0.02 | <0.03 | <0.02 | <0.02 | <0.06 | <0.02 | <0.01 | <0.01 | <0.02 | <0.02 | <0.05 |
| **Blank** | <0.002 | <0.01 | <0.004 | <0.01 | <0.01 | <0.02 | <0.03 | <0.02 | <0.02 | <0.06 | <0.02 | <0.01 | <0.01 | <0.02 | <0.02 | <0.05 |
| **Blank** | <0.002 | <0.01 | <0.004 | <0.01 | <0.01 | <0.02 | <0.03 | <0.02 | <0.02 | <0.06 | <0.02 | <0.01 | <0.01 | <0.02 | <0.02 | <0.05 |

\*Expected values (Note Li standard used Control).

† Sampled below detection limits for Se.

‡ “ND” = Not Detected.