

Supplementary Materials

Table S1: Major and trace element contents of representative adakitic intrusions in New Brunswick.

| Sample | WX85NB-44 | WX85NB-45 | WX85NB-46 | WX85NB-54 | WX85NB-47 | WX85NB-48 | WX85NB-49 | WX85NB-50 | WX85NB-57 |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|------------|
| Batholith/Suite | Pabineau Falls | Pabineau Falls | Pabineau Falls | Pabineau Falls | Pabineau Falls | Charlo Stocks | Charlo Stocks | Charlo Stocks | Sugar Loaf |
| SiO ₂ (wt. %) | 72.0 | 70.7 | 71.1 | 70.3 | 68.9 | 66.6 | 59.8 | 59.6 | 64.8 |
| TiO ₂ | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 1.3 | 1.4 | 0.5 |
| Al ₂ O ₃ | 13.8 | 14.4 | 14.5 | 14.2 | 15.4 | 15.7 | 14.9 | 15.0 | 16.6 |
| Fe ₂ O ₃ | 0.7 | 0.6 | 0.5 | 0.7 | 1.1 | 1.3 | 2.1 | 2.4 | 1.8 |
| FeO | 1.1 | 1.1 | 1.3 | 1.3 | 1.4 | 1.0 | 5.8 | 5.5 | 1.1 |
| MnO | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 |
| MgO | 0.5 | 0.7 | 0.6 | 0.8 | 0.9 | 1.0 | 2.2 | 1.9 | 1.6 |
| CaO | 1.3 | 1.6 | 1.6 | 1.5 | 3.0 | 3.1 | 3.0 | 4.8 | 4.7 |
| Na ₂ O | 4.1 | 4.1 | 4.0 | 4.1 | 4.8 | 5.7 | 4.3 | 4.0 | 4.9 |
| K ₂ O | 4.2 | 4.3 | 4.2 | 4.1 | 2.4 | 1.4 | 3.2 | 2.6 | 1.1 |
| P ₂ O ₅ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.4 | 0.4 | 0.2 |
| LOI | 0.62 | 0.77 | 0.85 | 0.93 | 0.78 | 2.70 | 1.28 | 0.54 | 3.00 |
| Cl | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.0225 | 0.035 | <0.01 |
| F | 0.07 | 0.03 | 0.06 | 0.07 | 0.06 | 0.02 | 0.07 | 0.10 | 0.02 |
| Total | 98.95 | 98.94 | 99.33 | 98.76 | 99.52 | 99.14 | 98.74 | 98.57 | 100.30 |
| Rb (ppm) | 175.02 | 169.60 | 167.58 | 147.43 | 73.70 | 23.80 | 101.79 | 81.30 | 15.24 |
| Cs | 5.15 | 6.88 | 6.65 | 5.13 | 1.37 | 0.35 | 4.15 | 6.42 | 0.45 |
| Ba | 376.00 | 543.00 | 432.00 | 458.00 | 504.00 | 273.00 | 517.00 | 353.00 | 266.00 |
| Sr | 169.53 | 155.10 | 147.56 | 162.96 | 380.10 | 458.23 | 374.63 | 252.90 | 498.78 |
| Ga | 18 | 19 | 18 | 18 | 20 | 19 | 23 | 24 | 19 |
| Li | 48 | 58 | 64 | 78 | 14 | 26 | 28 | 12 | 22 |
| Tl | <1 | <1 | <1 | 1.5 | <1 | <1 | 1 | <1 | <1 |
| Ta | 2.3 | 2.1 | 1.9 | 1.7 | 0.8 | 0.6 | 1.3 | 1.3 | 0.5 |
| Nb | 20.5 | 14.9 | 17.2 | 17.5 | 7.8 | 3.5 | 22.9 | 23.6 | 6.4 |
| Hf | 4.4 | 4.0 | 4.1 | 4.8 | 3.3 | 3.1 | 8.4 | 9.6 | 3.2 |
| Zr | 135.7 | 117.8 | 134.6 | 139.0 | 127.3 | 135.3 | 338.3 | 341.0 | 153.0 |
| Y | 41.0 | 25.6 | 28.8 | 29.4 | 10.3 | 6.4 | 53.2 | 53.3 | 6.4 |
| Th | 29.0 | 13.5 | 15.0 | 16.5 | 8.8 | 3.4 | 9.6 | 11.3 | 3.3 |
| U | 7.9 | 3.0 | 4.3 | 3.4 | 3.9 | 1.3 | 2.5 | 3.1 | 1.2 |
| La | 31.7 | 25.4 | 34.1 | 36.8 | 26.5 | 17.8 | 46.0 | 41.7 | 21.1 |
| Ce | 62.0 | 53.0 | 59.0 | 65.0 | 52.0 | 29.0 | 91.5 | 91.9 | 36.0 |
| Pr | | 5.8 | | | 5.4 | | | 11.1 | |
| Nd | 27.0 | 21.2 | 25.0 | 25.0 | 19.2 | 11.0 | 42.0 | 45.8 | 13.0 |
| Sm | 5.7 | 4.3 | 4.3 | 4.6 | 3.1 | 1.8 | 8.3 | 9.8 | 2.1 |
| Eu | 0.9 | 0.8 | 1.0 | 0.9 | 0.8 | 0.7 | 2.3 | 2.6 | 0.8 |
| Gd | | 3.9 | | | 2.6 | | | 10.1 | |
| Tb | 1.2 | 0.6 | 0.7 | 0.8 | 0.3 | 0.2 | 1.5 | 1.6 | 0.2 |
| Dy | | 3.8 | | | 1.9 | | | 9.9 | |
| Ho | | 0.8 | | | 0.4 | | | 2.1 | |
| Er | | 2.1 | | | 1.0 | | | 5.6 | |
| Tm | | 0.3 | | | 0.2 | | | 0.8 | |

| | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| Yb | 4.3 | 2.0 | 2.8 | 2.7 | 1.0 | 0.6 | 4.9 | 5.1 | 0.5 |
| Lu | 0.7 | 0.3 | 0.4 | 0.4 | 0.2 | 0.1 | 0.7 | 0.7 | 0.1 |
| Cr | <0.5 | 9.0 | 5.5 | 5.3 | 5.4 | 5.7 | 5.9 | 6.0 | 18.0 |
| Ni | 2.5 | 3.0 | 3.0 | 2.8 | 2.5 | 4.5 | 3.3 | 4.3 | 7.8 |
| Co | 3.2 | 3.7 | 3.7 | 4.2 | 4.6 | 6.2 | 14.0 | 15.3 | 9.5 |
| Sc | 6.5 | 5.3 | 5.5 | 6.3 | 4.6 | 4.6 | 19.9 | 21.5 | 6.4 |
| V | 24.0 | 23.0 | 25.5 | 31.5 | 41.5 | 39.5 | 120.5 | 105.5 | 51.0 |
| Cu | 2.0 | 2.0 | 5.5 | 3.0 | 77.0 | 3.0 | 17.0 | 11.0 | 16.5 |
| Pb | 20.0 | 20.0 | 20.0 | 14.0 | 9.0 | <1 | 9.0 | 12.0 | 4.0 |
| Zn | 33.5 | 32.0 | 31.0 | 34.0 | 20.3 | 36.0 | 117.5 | 100.5 | 49.8 |
| Mn | 580.0 | 455.0 | 500.0 | 565.0 | 240.0 | 300.0 | 1548.9 | 1277.9 | 365.0 |
| Bi | <0.1 | <0.1 | 0.2 | <0.1 | 0.6 | 0.2 | 1.3 | 0.3 | 0.3 |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | 10.0 | 4.0 | 6.0 | 6.0 | 4.3 | <0.5 | 1.5 | 7.0 | <0.5 |
| W | 0.5 | <0.5 | 0.5 | 0.8 | <0.5 | <0.5 | <0.5 | 1.3 | <0.5 |
| Mo | 2.0 | 1.0 | 13.0 | <0.5 | 1.0 | 2.0 | 4.0 | 15.5 | <0.5 |
| F | 740.0 | 285.0 | 550.0 | 700.0 | 620.0 | 210.0 | 690.0 | 965.0 | 190.0 |
| Cl | <25 | <25 | <25 | <25 | <25 | <25 | 225.0 | 350.0 | <25 |
| Br | 0.6 | <0.3 | <0.3 | 0.3 | <0.3 | <0.3 | 1.1 | 0.8 | <0.3 |
| B | 20.0 | 10.0 | 20.0 | 25.0 | 5.0 | 10.0 | 20.0 | 20.0 | <5 |
| Be | 7.0 | 6.0 | 7.0 | 6.0 | 3.5 | 3.0 | 5.0 | 5.5 | 2.5 |
| Au | <0.3 | <0.3 | <0.3 | 1.8 | <0.3 | <0.3 | <0.3 | <0.3 | 2.3 |
| Ge | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| As | <0.2 | 0.5 | 0.5 | 0.8 | <0.2 | <0.2 | 14.3 | 5.3 | 0.3 |
| Se | <0.4 | <0.4 | <0.4 | 0.6 | <0.4 | <0.4 | 1.0 | <0.4 | 0.9 |
| Sb | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 1.8 | 0.5 | 0.1 |

Table S1: Continued.

| Sample | WX85NB-55 | WX85NB-56 | WX85NB-51 | WX85NB-58 | WX85NB-59 | WX85NB-60 | WX85NB-60 | WX85NB-62 | WX85NB-64 |
|--------------------------------|------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Batholith/Suite | Mount Sugar Loaf | Mount Sugar Loaf | Charlo Stocks | Charlo Stocks | Charlo Stocks | Charlo Stocks | Charlo Stocks | Charlo Stocks | Charlo Stocks |
| SiO ₂ (wt. %) | 64.5 | 63.9 | 62.0 | 56.0 | 58.9 | 70.5 | 51.5 | 64.2 | 46.4 |
| TiO ₂ | 0.5 | 0.5 | 0.8 | 1.3 | 1.6 | 0.3 | 2.6 | 0.7 | 2.0 |
| Al ₂ O ₃ | 16.5 | 16.6 | 16.5 | 17.7 | 14.7 | 14.3 | 14.3 | 15.9 | 20.8 |
| Fe ₂ O ₃ | 1.6 | 1.7 | 2.1 | 2.6 | 2.2 | 1.5 | 2.4 | 2.1 | 2.3 |
| FeO | 1.3 | 1.2 | 3.3 | 5.7 | 6.1 | 1.3 | 6.0 | 2.5 | 4.6 |
| MnO | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 0.1 | 0.1 | 0.1 |
| MgO | 1.6 | 1.7 | 1.7 | 2.1 | 2.2 | 0.2 | 3.9 | 1.2 | 5.1 |
| CaO | 4.6 | 4.7 | 3.7 | 5.8 | 4.0 | 0.9 | 8.6 | 3.0 | 13.6 |
| Na ₂ O | 4.9 | 4.8 | 4.9 | 5.1 | 6.1 | 5.9 | 5.6 | 4.4 | 2.2 |
| K ₂ O | 1.2 | 1.2 | 2.9 | 1.6 | 1.5 | 3.8 | 0.4 | 3.6 | 0.4 |
| P ₂ O ₅ | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.0 | 0.4 | 0.2 | 0.1 |
| LOI | 3.39 | 3.54 | 1.23 | 0.62 | 0.93 | 0.62 | 2.85 | 2.00 | 1.35 |
| Cl | <0.01 | <0.01 | <0.01 | 0.19 | 0.04 | 0.03 | 0.065 | 0.01 | <0.01 |
| F | 0.03 | 0.04 | 0.06 | 0.05 | 0.11 | 0.08 | 0.07 | 0.06 | 0.02 |
| Total | 100.34 | 100.26 | 99.68 | 99.47 | 99.31 | 99.73 | 99.12 | 100.09 | 99.26 |
| Rb (ppm) | 17.05 | 15.50 | 78.75 | 45.80 | 29.31 | 97.37 | 5.43 | 98.55 | 8.39 |
| Cs | 0.35 | 0.75 | 1.25 | 1.00 | <0.20 | 0.38 | 0.85 | 2.30 | 2.30 |
| Ba | 297.00 | 277.00 | 419.00 | 378.00 | 416.00 | 490.00 | 58.00 | 487.00 | 89.00 |
| Sr | 519.78 | 533.00 | 294.54 | 364.60 | 234.60 | 66.78 | 153.15 | 218.95 | 588.64 |
| Ga | 20 | 20 | 22 | 25 | 25 | 23 | 21 | 21 | 19 |
| Li | 14 | 26 | 14 | 36 | 76 | 10 | 24 | 60 | 8 |
| Tl | <1 | <1 | 6 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ta | <0.04 | <0.04 | 1.3 | <0.04 | 1.4 | 1.9 | 1.4 | 1.5 | 0.6 |
| Nb | 6.5 | 6.8 | 21.0 | 12.3 | 20.4 | 26.9 | 15.8 | 16.9 | 7.5 |
| Hf | 3.1 | 3.1 | 8.6 | 5.1 | 9.2 | 11.5 | 5.3 | 8.6 | 1.2 |
| Zr | 157.6 | 148.7 | 345.9 | 190.2 | 328.1 | 366.4 | 226.5 | 267.3 | 67.7 |
| Y | 6.0 | 6.2 | 34.1 | 41.1 | 64.6 | 60.2 | 42.1 | 32.6 | 9.5 |
| Th | 2.8 | 2.9 | 11.5 | 5.4 | 9.0 | 16.5 | 3.2 | 15.5 | 0.5 |
| U | 1.1 | 1.1 | 4.9 | 1.6 | 2.8 | 5.2 | 1.3 | 4.9 | 0.1 |
| La | 19.3 | 18.7 | 42.2 | 29.8 | 44.0 | 49.3 | 25.5 | 45.1 | 6.4 |
| Ce | 33.0 | 36.4 | 84.0 | 65.2 | 89.0 | 95.0 | 56.0 | 78.0 | 13.5 |
| Pr | | 3.9 | | 8.0 | | | | | |
| Nd | 12.0 | 14.3 | 33.0 | 34.1 | 45.0 | 40.0 | 30.0 | 33.0 | 7.0 |
| Sm | 1.8 | 2.4 | 5.8 | 7.6 | 10.0 | 7.4 | 6.3 | 5.5 | 1.6 |
| Eu | 0.8 | 0.8 | 1.7 | 3.1 | 3.4 | 1.3 | 2.5 | 1.6 | 1.2 |
| Gd | | 2.2 | | 8.1 | | | | | |
| Tb | 0.3 | 0.3 | 0.9 | 1.3 | 1.6 | 1.6 | 1.1 | 1.0 | 0.3 |
| Dy | | 1.3 | | 7.5 | | | | | |
| Ho | | 0.2 | | 1.6 | | | | | |
| Er | | 0.6 | | 4.1 | | | | | |

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|----|-------|-------|-------|--------|--------|-------|--------|-------|-------|
| Tm | | 0.1 | | 0.5 | | | | | |
| Yb | 0.5 | 0.5 | 3.5 | 3.6 | 5.9 | 6.1 | 3.6 | 3.5 | 0.8 |
| Lu | 0.1 | 0.1 | 0.5 | 0.5 | 0.9 | 0.9 | 0.5 | 0.5 | 0.1 |
| Cr | 16.5 | 32.0 | 7.5 | 0.5 | <0.5 | <0.5 | 2.0 | 5.0 | 146.0 |
| Ni | 9.0 | 9.5 | 4.5 | 2.5 | 1.5 | 1.0 | 4.0 | 3.5 | 42.8 |
| Co | 8.9 | 9.5 | 11.0 | 14.5 | 11.0 | 2.0 | 17.0 | 9.3 | 35.5 |
| Se | 5.7 | 6.5 | 10.1 | 19.8 | 18.4 | 6.7 | 32.3 | 10.0 | 36.5 |
| V | 50.5 | 53.5 | 61.5 | 82.5 | 54.0 | 5.5 | 326.0 | 67.0 | 236.0 |
| Cu | 14.0 | 31.0 | 12.0 | 11.0 | 8.5 | 2.0 | 75.0 | 25.0 | 115.0 |
| Pb | 8.0 | 8.0 | 12.0 | 8.0 | 8.0 | 3.0 | <1 | 16.0 | 8.0 |
| Zn | 49.0 | 51.0 | 68.0 | 136.5 | 39.0 | 25.8 | 42.0 | 57.0 | 42.3 |
| Mn | 370.0 | 400.0 | 820.0 | 1471.5 | 1161.7 | 360.0 | 1084.2 | 640.0 | 820.0 |
| Bi | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | <0.1 | 0.4 | 0.4 |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | <0.5 | 7.0 | 3.0 | 6.0 | <0.5 | 0.8 | 2.0 | <0.5 | <0.5 |
| W | <0.5 | <0.5 | 1.5 | 1.0 | <0.5 | <0.5 | <0.5 | 3.0 | <0.5 |
| Mo | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.0 | 3.5 |
| F | 260.0 | 380.0 | 560.0 | 480.0 | 1100.0 | 770.0 | 730.0 | 580.0 | 160.0 |
| Cl | <25 | <25 | <25 | 1900.0 | 400.0 | 300.0 | 650.0 | 100.0 | <25 |
| Br | <0.3 | <0.3 | <0.3 | 0.9 | 0.7 | 1.4 | 1.1 | 0.6 | <0.3 |
| B | 10.0 | 10.0 | 20.0 | 10.0 | 10.0 | 20.0 | <5 | 30.0 | 10.0 |
| Be | 3.0 | 2.0 | 5.0 | 4.0 | 6.0 | 5.5 | 4.0 | 5.0 | 3.0 |
| Au | <0.3 | <0.3 | 5.5 | 1.5 | <0.3 | 2.0 | <0.3 | 1.0 | 0.5 |
| Ge | <5 | <5 | <5 | <5 | <5 | 5.0 | <5 | <5 | <5 |
| As | <0.2 | <0.2 | 5.0 | 1.5 | 1.0 | 1.3 | 1.5 | 1.0 | 3.3 |
| Se | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | 3.8 | <0.4 | 0.6 |
| Sb | 0.1 | 0.1 | 0.6 | 0.2 | 0.2 | 0.1 | 0.6 | 0.3 | 0.7 |

Table S1: Continued.

| Sample | WX85NB-65 | WX85NB-66 | WX85NB-67 | WX85NB-69 | WX85NB-70 | WX85NB-71 | WX85NB-127 | WX85NB-129 | WX85NB-154 |
|--------------------------------|---------------|---------------|---------------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|
| Batholith/Suite | Charlo Stocks | Charlo Stocks | Charlo Stocks | Mt Squaw Cap Stocks | Mt Squaw Cap Stocks | Mt Squaw Cap Stocks | North Dungarvan River | North Dungarvan River | North Dungarvan River |
| SiO ₂ (wt. %) | 63.5 | 46.3 | 64.6 | 65.3 | 55.7 | 69.7 | 73.2 | 69.1 | 66.7 |
| TiO ₂ | 0.8 | 3.5 | 0.7 | 0.3 | 0.9 | 0.2 | 0.2 | 0.5 | 0.7 |
| Al ₂ O ₃ | 16.0 | 16.1 | 15.6 | 15.5 | 18.6 | 16.1 | 13.9 | 15.0 | 15.3 |
| Fe ₂ O ₃ | 2.4 | 4.1 | 1.8 | 1.0 | 2.2 | 1.6 | 0.4 | 1.0 | 0.7 |
| FeO | 2.3 | 7.5 | 2.6 | 1.0 | 4.6 | 1.4 | 0.7 | 1.7 | 3.5 |
| MnO | 0.1 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| MgO | 1.4 | 5.1 | 1.1 | 1.4 | 2.7 | 0.3 | 0.4 | 1.0 | 1.5 |
| CaO | 2.8 | 10.6 | 3.0 | 2.9 | 2.2 | 1.4 | 0.8 | 3.0 | 2.9 |
| Na ₂ O | 4.5 | 2.9 | 4.6 | 5.2 | 6.7 | 6.0 | 3.8 | 3.6 | 3.8 |
| K ₂ O | 3.7 | 0.7 | 3.7 | 1.2 | 2.1 | 1.8 | 4.6 | 3.1 | 2.5 |
| P ₂ O ₅ | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 |
| LOI | 2.00 | 1.01 | 0.93 | 5.73 | 3.47 | 1.39 | 1.00 | 0.70 | 0.89 |
| Cl | <0.01 | 0.01 | 0.06 | <0.01 | <0.01 | 0.005 | <0.01 | <0.01 | <0.01 |
| F | 0.08 | 0.02 | 0.07 | 0.04 | 0.02 | 0.02 | 0.04 | 0.03 | 0.09 |
| Total | 99.82 | 98.33 | 99.15 | 99.98 | 99.75 | 100.29 | 99.26 | 99.02 | 98.91 |
| Rb (ppm) | 100.81 | 16.67 | 129.20 | 19.43 | 51.83 | 48.73 | 226.41 | 121.61 | 121.97 |
| Cs | 1.45 | 1.22 | 2.95 | 2.58 | 1.00 | 1.95 | 12.50 | 6.45 | 4.12 |
| Ba | 500.00 | 113.00 | 419.00 | 332.00 | 360.00 | 528.00 | 322.00 | 443.00 | 403.00 |
| Sr | 257.72 | 538.89 | 202.50 | 387.78 | 977.02 | 349.35 | 61.49 | 176.79 | 228.51 |
| Ga | 20 | 20 | 22 | 19 | 20 | 20 | 16 | 17 | 20 |
| Li | 86 | 36 | 46 | 48 | 86 | 40 | 43 | 24 | 14 |
| Tl | <1 | <1 | <1 | 2 | 2 | <1 | 1.5 | <1 | 2 |
| Ta | 1.0 | 1.2 | 1.1 | 0.5 | 0.9 | 0.6 | 3.1 | 0.6 | 0.9 |
| Nb | 16.9 | 13.3 | 18.3 | 3.9 | 9.3 | 8.9 | 17.7 | 10.8 | 17.0 |
| Hf | 8.0 | 2.6 | 7.6 | 3.2 | 3.8 | 4.8 | 3.0 | 3.3 | 6.2 |
| Zr | 289.7 | 118.0 | 281.5 | 131.7 | 202.2 | 199.4 | 84.1 | 130.2 | 191.7 |
| Y | 33.5 | 17.4 | 33.6 | 7.3 | 20.8 | 13.0 | 26.8 | 19.5 | 24.0 |
| Th | 13.5 | 1.8 | 15.0 | 3.6 | 3.0 | 5.5 | 15.5 | 12.0 | 13.0 |
| U | 4.2 | 0.8 | 3.5 | 1.2 | 1.4 | 2.0 | 5.1 | 3.4 | 2.5 |
| La | 44.4 | 12.7 | 37.5 | 18.5 | 15.7 | 23.7 | 27.3 | 32.6 | 55.2 |
| Ce | 79.0 | 27.0 | 76.6 | 32.5 | 33.0 | 43.0 | 47.0 | 51.0 | 90.5 |
| Pr | | | 8.5 | | | | | | |
| Nd | 33.0 | 13.5 | 31.1 | 12.5 | 15.0 | 16.0 | 18.5 | 18.0 | 35.0 |
| Sm | 5.7 | 3.0 | 6.2 | 2.1 | 3.2 | 2.5 | 3.3 | 3.0 | 5.7 |
| Eu | 1.4 | 1.4 | 1.3 | 0.8 | 1.2 | 1.0 | 0.6 | 0.9 | 1.7 |
| Gd | | | 6.1 | | | | | | |
| Tb | 0.9 | 0.6 | 1.0 | 0.3 | 0.5 | 0.4 | 0.7 | 0.4 | 0.8 |
| Dy | | | 5.9 | | | | | | |
| Ho | | | 1.2 | | | | | | |
| Er | | | 3.4 | | | | | | |
| Tm | | | 0.5 | | | | | | |
| Yb | 3.3 | 1.6 | 3.3 | 0.7 | 1.9 | 1.4 | 2.2 | 1.6 | 2.2 |
| Lu | 0.5 | 0.2 | 0.5 | 0.1 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 |
| Cr | 4.2 | 2.0 | 5.8 | 13.0 | 2.0 | 0.8 | 3.6 | 3.7 | 18.8 |
| Ni | 3.0 | 7.0 | 3.5 | 6.3 | 2.0 | 1.5 | 1.8 | 2.5 | 7.8 |
| Co | 9.6 | 45.0 | 9.1 | 5.3 | 17.0 | 2.4 | 2.1 | 6.2 | 11.4 |
| Sc | 10.3 | 41.9 | 9.0 | 4.9 | 7.9 | 1.0 | 4.9 | 7.8 | 14.0 |
| V | 69.0 | 510.0 | 57.0 | 38.5 | 103.0 | 4.0 | 11.0 | 59.5 | 88.5 |
| Cu | 6.0 | 61.0 | 5.5 | 2.0 | 4.0 | 1.5 | 1.3 | 6.0 | 7.8 |

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|----|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Pb | 20.0 | 2.0 | 16.0 | 2.0 | 4.0 | 16.0 | 18.0 | 32.0 | 16.0 |
| Zn | 40.5 | 71.0 | 39.0 | 16.3 | 76.0 | 73.0 | 22.5 | 32.5 | 51.5 |
| Mn | 550.0 | 1200.4 | 560.0 | 220.0 | 870.0 | 1006.8 | 430.0 | 570.0 | 440.0 |
| Bi | 1.4 | 0.4 | <0.1 | <0.1 | 0.2 | 0.4 | <0.1 | 2.5 | 0.5 |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | 6.0 | 0.8 | <0.5 | 0.8 | <0.5 | <0.5 | 4.5 | <0.5 | <0.5 |
| W | 1.5 | <0.5 | 1.5 | <0.5 | <0.5 | <0.5 | 3.8 | <0.5 | 2.0 |
| Mo | <0.5 | 1.5 | <0.5 | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| F | 810.0 | 240.0 | 670.0 | 405.0 | 240.0 | 240.0 | 400.0 | 280.0 | 915.0 |
| Cl | <25 | 100.0 | 600.0 | <25 | <25 | 50.0 | <25 | <25 | <25 |
| Br | <0.3 | <0.3 | 1.0 | <0.3 | <0.3 | 0.8 | <0.3 | <0.3 | 0.7 |
| B | 20.0 | 10.0 | 50.0 | 40.0 | 80.0 | 50.0 | 25.0 | 30.0 | 20.0 |
| Be | 4.0 | 4.0 | 4.0 | 2.5 | 4.0 | 3.0 | 6.5 | 5.0 | 3.0 |
| Au | 2.0 | <0.3 | <0.3 | 0.5 | <0.3 | <0.3 | 3.5 | <0.3 | 0.8 |
| Ge | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 5.0 |
| As | 1.0 | 4.5 | 6.5 | <0.2 | 0.5 | 2.0 | 0.5 | 1.0 | 0.8 |
| Se | 2.0 | 0.6 | <0.4 | <0.4 | 0.8 | <0.4 | <0.4 | <0.4 | <0.4 |
| Sb | 0.4 | 0.8 | 0.9 | 0.1 | 0.6 | 0.3 | 0.4 | 0.3 | 0.2 |

Table S1: Continued.

| Sample | WX85NB-155 | WX86NB-292 | WX85NB-156 | WX85NB-190 | WX85NB-195 |
|--------------------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|
| Batholith/Suite | North Dungarvan River | North Dungarvan River | North Dungarvan River | Magaguadavic Granite | Magaguadavic Granite |
| SiO ₂ (wt. %) | 57.8 | 71.9 | 56.0 | 62.0 | 68.5 |
| TiO ₂ | 1.1 | 0.3 | 0.7 | 0.9 | 0.7 |
| Al ₂ O ₃ | 17.1 | 14.7 | 16.3 | 16.1 | 14.7 |
| Fe ₂ O ₃ | 2.5 | 0.8 | 1.4 | 1.3 | 1.8 |
| FeO | 4.4 | 1.0 | 5.4 | 3.6 | 1.6 |
| MnO | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| MgO | 4.0 | 0.5 | 7.1 | 2.4 | 1.3 |
| CaO | 6.3 | 1.7 | 6.1 | 3.9 | 2.9 |
| Na ₂ O | 2.8 | 3.7 | 2.4 | 3.8 | 4.1 |
| K ₂ O | 2.0 | 4.3 | 1.6 | 3.3 | 3.7 |
| P ₂ O ₅ | 0.2 | 0.1 | 0.1 | 0.3 | 0.2 |
| LOI | 0.70 | 0.70 | 1.50 | 1.31 | 0.62 |
| Cl | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| F | 0.03 | 0.03 | 0.05 | 0.43 | 0.07 |
| Total | 99.21 | 99.89 | 99.03 | 99.67 | 100.28 |
| Rb (ppm) | 71.00 | 182.86 | 65.99 | 116.44 | 132.22 |
| Cs | 3.00 | 9.05 | 4.00 | 4.05 | 3.95 |
| Ba | 265.00 | 532.00 | 204.00 | 782.00 | 515.00 |
| Sr | 337.20 | 122.87 | 337.28 | 618.73 | 382.95 |
| Ga | 22 | 17 | 18 | 22 | 19 |
| Li | 20 | 34 | 21 | 40 | 44 |
| Tl | 1 | <1 | <1 | <1 | <1 |
| Ta | 1.1 | 1.7 | 0.9 | 1.7 | 1.8 |
| Nb | 12.3 | 17.2 | 9.8 | 18.2 | 18.5 |
| Hf | 4.2 | 5.4 | 3.3 | 6.9 | 6.9 |
| Zr | 137.9 | 167.7 | 110.3 | 252.5 | 198.2 |
| Y | 20.0 | 26.6 | 19.8 | 27.2 | 23.4 |
| Th | 7.5 | 17.0 | 7.3 | 16.0 | 29.8 |
| U | 2.1 | 5.9 | 2.3 | 5.6 | 4.7 |
| La | 30.6 | 39.0 | 24.2 | 64.5 | 69.1 |
| Ce | 56.0 | 64.0 | 44.5 | 115.0 | 141.3 |
| Pr | | | | | 14.5 |
| Nd | 23.0 | 24.0 | 19.0 | 44.5 | 48.8 |
| Sm | 4.3 | 4.1 | 3.7 | 7.1 | 8.2 |
| Eu | 1.4 | 1.0 | 1.1 | 2.0 | 1.6 |
| Gd | | | | | 6.7 |
| Tb | 0.6 | 0.7 | 0.6 | 1.0 | 1.0 |
| Dy | | | | | 5.5 |
| Ho | | | | | 1.1 |
| Er | | | | | 2.8 |
| Tm | | | | | 0.4 |
| Yb | 2.1 | 2.4 | 2.0 | 2.6 | 2.7 |
| Lu | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 |

| | | | | | |
|----|-------|-------|-------|--------|-------|
| Cr | 62.3 | 7.5 | 296.5 | 42.8 | 17.3 |
| Ni | 29.8 | 4.0 | 114.5 | 16.0 | 6.3 |
| Co | 25.3 | 3.2 | 36.8 | 13.8 | 8.1 |
| Sc | 21.3 | 5.2 | 21.0 | 11.9 | 7.5 |
| V | 160.0 | 15.0 | 124.0 | 106.5 | 58.0 |
| Cu | 36.5 | 1.0 | 85.0 | 16.5 | 7.3 |
| Pb | 9.0 | 28.0 | 8.0 | 8.0 | 12.0 |
| Zn | 75.8 | 34.0 | 74.3 | 73.3 | 47.3 |
| Mn | 855.0 | 440.0 | 880.0 | 685.0 | 490.0 |
| Bi | <0.1 | <0.1 | <0.1 | - | - |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | 1.3 | 4.0 | <0.5 | 0.8 | 2.8 |
| W | <0.5 | 1.0 | <0.5 | 5.3 | <0.5 |
| Mo | <0.5 | <0.5 | 1.0 | 1.5 | 1.0 |
| F | 290.0 | 250.0 | 520.0 | 4270.0 | 730.0 |
| Cl | <25 | <25 | 25.0 | <25 | <25 |
| Br | 1.2 | <0.3 | <0.3 | <0.3 | 0.3 |
| B | 10.0 | 20.0 | 20.0 | 10.0 | 10.0 |
| Be | 4.0 | 6.0 | 4.5 | 5.0 | 4.0 |
| Au | 0.3 | 1.0 | 2.8 | 1.0 | <0.3 |
| Ge | <5 | 10.0 | <5 | 5.0 | <5 |
| As | <0.2 | 0.5 | 1.3 | 2.0 | 2.5 |
| Se | <0.4 | <0.4 | <0.4 | <0.4 | 0.8 |
| Sb | 0.1 | 0.6 | 0.1 | 0.6 | 0.7 |

Table S1: Continued.

| Sample | WX85NB-196 | WX85NB-199 | WX85NB-206 | WX85NB-207 | WX85NB-208 |
|--------------------------------|-------------------------|-------------------------|------------|------------|------------|
| Batholith/Suite | Magaguadavic Granite | Magaguadavic Granite | Hampstead | Hampstead | Hampstead |
| SiO ₂ (wt. %) | 68.9 | 74.8 | 67.1 | 65.5 | 65.8 |
| TiO ₂ | 0.5 | 0.3 | 0.6 | 0.6 | 0.7 |
| Al ₂ O ₃ | 14.9 | 12.5 | 15.4 | 15.5 | 15.5 |
| Fe ₂ O ₃ | 1.3 | 0.7 | 1.5 | 1.4 | 1.6 |
| FeO | 1.5 | 1.0 | 1.7 | 2.0 | 2.0 |
| MnO | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 |
| MgO | 1.1 | 0.2 | 1.4 | 1.7 | 1.7 |
| CaO | 2.3 | 0.9 | 3.0 | 3.2 | 3.3 |
| Na ₂ O | 4.1 | 3.6 | 4.4 | 4.3 | 4.4 |
| K ₂ O | 4.3 | 5.0 | 3.9 | 3.7 | 3.6 |
| P ₂ O ₅ | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 |
| LOI | 0.66 | 0.62 | 0.39 | 0.54 | 0.39 |
| Cl | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| F | 0.06 | 0.15 | 0.06 | 0.07 | 0.07 |
| Total | 99.95 | 99.78 | 99.82 | 99.02 | 99.32 |
| Rb (ppm) | 168.04 | 271.92 | 152.70 | 156.56 | 144.14 |
| Cs | 8.40 | 12.32 | 3.75 | 3.30 | 3.12 |
| Ba | 625.00 | 234.00 | 699.00 | 679.00 | 675.00 |
| Sr | 329.37 | 51.88 | 357.80 | 384.23 | 386.19 |
| Ga | 19 | 18 | 21 | 20 | 20 |
| Li | 70 | <1 | 42 | 36 | 38 |
| Tl | <1 | <1 | <1 | <1 | <1 |
| Ta | 1.4 | 2.5 | 1.2 | 1.0 | 0.9 |
| Nb | 16.5 | 21.6 | 14.0 | 12.4 | 12.3 |
| Hf | 5.9 | 5.7 | 6.5 | 6.2 | 6.1 |
| Zr | 185.9 | 160.1 | 182.1 | 182.8 | 184.7 |
| Y | 21.6 | 55.4 | 17.1 | 17.7 | 15.3 |
| Th | 22.5 | 30.8 | 23.5 | 19.3 | 19.5 |
| U | 6.6 | 10.0 | 6.5 | 4.3 | 4.5 |
| La | 55.0 | 50.9 | 45.9 | 45.9 | 45.9 |
| Ce | 94.5 | 125.0 | 88.1 | 78.5 | 78.5 |
| Pr | | 12.0 | 9.4 | | |
| Nd | 32.0 | 41.2 | 33.2 | 28.0 | 28.0 |
| Sm | 4.8 | 8.5 | 5.5 | 4.2 | 4.3 |
| Eu | 1.2 | 0.7 | 1.2 | 1.1 | 1.2 |
| Gd | | 8.1 | 4.4 | | |
| Tb | 0.7 | 1.4 | 0.6 | 0.5 | 0.6 |
| Dy | | 9.1 | 3.2 | | |
| Ho | | 2.0 | 0.6 | | |
| Er | | 5.5 | 1.7 | | |
| Tm | | 0.8 | 0.2 | | |
| Yb | 2.1 | 5.6 | 1.6 | 1.3 | 1.4 |
| Lu | 0.3 | 0.8 | 0.2 | 0.2 | 0.3 |

| | | | | | |
|----|-------|--------|-------|-------|-------|
| Cr | 14.3 | 0.5 | 21.8 | 22.8 | 25.5 |
| Ni | 4.8 | 1.8 | 10.3 | 12.3 | 12.8 |
| Co | 7.6 | 1.8 | 9.3 | 10.1 | 10.3 |
| Sc | 7.0 | 5.0 | 7.3 | 8.1 | 8.1 |
| V | 46.5 | 11.0 | 56.0 | 68.0 | 68.0 |
| Cu | 8.3 | 1.3 | 5.3 | 8.3 | 8.8 |
| Pb | 16.0 | 15.0 | 16.0 | 17.0 | 19.0 |
| Zn | 53.5 | 22.0 | 43.0 | 48.5 | 50.3 |
| Mn | 480.0 | 295.0 | 415.0 | 420.0 | 455.0 |
| Bi | - | - | 0.2 | <0.1 | <0.1 |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | 3.0 | 4.0 | 1.3 | 1.3 | 1.8 |
| W | <0.5 | 3.3 | 0.5 | <0.5 | 0.5 |
| Mo | <0.5 | <0.5 | 1.0 | 1.5 | 2.0 |
| F | 595.0 | 1450.0 | 630.0 | 665.0 | 650.0 |
| Cl | <25 | <25 | 25.0 | <25 | <25 |
| Br | <0.3 | <0.3 | 0.4 | 0.4 | 0.3 |
| B | 15.0 | 10.0 | 15.0 | 15.0 | 15.0 |
| Be | 6.5 | 7.0 | 4.0 | 4.0 | 4.0 |
| Au | 0.5 | 0.8 | 0.3 | 0.3 | 0.3 |
| Ge | <5 | 5.0 | 5.0 | 5.0 | 5.0 |
| As | 3.3 | 2.0 | 0.3 | 0.5 | 1.3 |
| Se | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 |
| Sb | 0.9 | 0.5 | 0.3 | 0.3 | 0.3 |

Table S1: Continued.

| Sample | WX85NB-209 | WX85NB-213 | WX85NB-214 | WX85NB-226 | WX86NB-292 |
|--------------------------------|------------|------------|------------|-----------------------|-----------------------|
| Batholith/Suite | Hampstead) | Tower Hill | Tower Hill | Burnthill Brook Suite | Burnthill Brook Suite |
| SiO ₂ (wt. %) | 66.8 | 73.4 | 73.4 | 71.3 | 75.1 |
| TiO ₂ | 0.6 | 0.2 | 0.2 | 0.3 | 0.2 |
| Al ₂ O ₃ | 15.6 | 14.7 | 14.6 | 14.3 | 12.9 |
| Fe ₂ O ₃ | 1.6 | 0.4 | 0.3 | 0.7 | 1.1 |
| FeO | 1.7 | 0.6 | 0.6 | 1.3 | 0.3 |
| MnO | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| MgO | 1.5 | 0.2 | 0.2 | 0.6 | 0.2 |
| CaO | 3.0 | 0.7 | 0.9 | 1.7 | 0.9 |
| Na ₂ O | 4.4 | 3.8 | 3.9 | 4.1 | 3.9 |
| K ₂ O | 3.6 | 5.0 | 4.9 | 3.9 | 4.5 |
| P ₂ O ₅ | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| LOI | 0.70 | 0.81 | 0.74 | 0.81 | 0.62 |
| Cl | 0.005 | <0.01 | <0.01 | <0.01 | <0.01 |
| F | 0.07 | 0.02 | 0.02 | 0.21 | 0.08 |
| Total | 99.98 | 100.20 | 99.99 | 99.57 | 99.95 |
| Rb (ppm) | 159.21 | 209.20 | 212.86 | 278.00 | 297.60 |
| Cs | 5.75 | 10.50 | 11.12 | 8.60 | 6.20 |
| Ba | 669.00 | 470.00 | 423.00 | 289.00 | 76.00 |
| Sr | 389.08 | 82.20 | 84.58 | 301.90 | 52.50 |
| Ga | 21 | 22 | 20 | 19 | 19 |
| Li | 40 | 90 | 130 | 135 | 96 |
| Tl | 4 | 2.5 | <1 | <1 | 6 |
| Ta | 1.1 | 1.5 | 1.2 | 3.9 | 3.7 |
| Nb | 13.4 | 13.8 | 12.5 | 19.9 | 21.6 |
| Hf | 6.2 | 2.8 | 3.1 | 5.1 | 4.9 |
| Zr | 191.5 | 78.0 | 79.4 | 145.0 | 94.6 |
| Y | 14.5 | 13.7 | 14.2 | 49.2 | 47.5 |
| Th | 23.0 | 16.3 | 16.5 | 21.8 | 35.0 |
| U | 4.8 | 3.3 | 3.3 | 10.9 | 13.8 |
| La | 51.7 | 24.7 | 29.7 | 29.8 | 22.3 |
| Ce | 82.0 | 49.7 | 49.5 | 64.0 | 48.0 |
| Pr | | 5.4 | | 7.6 | |
| Nd | 26.0 | 19.0 | 18.5 | 29.0 | 24.0 |
| Sm | 3.7 | 3.9 | 3.4 | 6.4 | 5.5 |
| Eu | 1.2 | 0.5 | 0.6 | 0.6 | 0.6 |
| Gd | | 3.3 | | 5.7 | |
| Tb | 0.5 | 0.4 | 0.4 | 1.1 | 1.2 |
| Dy | | 2.2 | | 6.8 | |
| Ho | | 0.3 | | 1.5 | |
| Er | | 0.9 | | 4.4 | |
| Tm | | 0.1 | | 0.7 | |
| Yb | 1.3 | 0.7 | 0.7 | 5.0 | 5.5 |
| Lu | 0.2 | 0.1 | 0.1 | 0.7 | 0.9 |

| | | | | | |
|----|-------|-------|-------|--------|-------|
| Cr | 15.0 | 4.0 | 0.9 | 1.0 | 7.5 |
| Ni | 8.5 | 1.0 | 1.0 | 3.5 | 2.5 |
| Co | 9.9 | 1.6 | 1.2 | 3.9 | 1.8 |
| Sc | 7.2 | 3.2 | 2.7 | 6.1 | 4.1 |
| V | 60.0 | 4.0 | 4.0 | 25.0 | 9.0 |
| Cu | 37.0 | 1.0 | 1.5 | 1.3 | 1.0 |
| Pb | 20.0 | 25.0 | 31.0 | 14.0 | 20.0 |
| Zn | 44.5 | 39.3 | 39.5 | 31.8 | 23.0 |
| Mn | 370.0 | 210.0 | 245.0 | 520.0 | 310.0 |
| Bi | <0.1 | 0.3 | 0.7 | 0.9 | 0.7 |
| Cd | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | <0.5 | 3.8 | 6.0 | 17.0 | 7.0 |
| W | 1.0 | 1.5 | 0.8 | 4.8 | 1.0 |
| Mo | <0.5 | <0.5 | <0.5 | 1.0 | <0.5 |
| F | 700.0 | 235.0 | 245.0 | 2100.0 | 830.0 |
| Cl | 50.0 | <25 | <25 | <25 | <25 |
| Br | 0.7 | 0.3 | <0.3 | 0.4 | <0.3 |
| B | 20.0 | 10.0 | 20.0 | 25.0 | 10.0 |
| Be | 4.0 | 5.5 | 6.0 | 11.0 | 10.0 |
| Au | <0.3 | 0.5 | 1.0 | 1.5 | 2.0 |
| Ge | <5 | <5 | <5 | <5 | 10.0 |
| As | 6.0 | 2.0 | <0.2 | 1.8 | 0.5 |
| Se | <0.4 | <0.4 | 0.4 | <0.4 | <0.4 |
| Sb | 0.6 | 0.3 | 0.2 | 0.3 | 0.2 |

Table S1: Continued.

| Sample | WX86NB-294 | WX86NB-295 | WX86NB-296 | FY-FT3 | FY-FT5 |
|--------------------------------|-----------------------|-----------------------|-----------------------|--------------|--------------|
| Batholith/Suite | Burnthill Brook Suite | Burnthill Brook Suite | Burnthill Brook Suite | Watson Brook | Watson Brook |
| SiO ₂ (wt. %) | 73.4 | 75.5 | 72.3 | 60.0 | 59.5 |
| TiO ₂ | 0.2 | 0.2 | 0.3 | 0.8 | 0.8 |
| Al ₂ O ₃ | 14.2 | 12.8 | 14.0 | 15.6 | 15.3 |
| Fe ₂ O ₃ | 0.4 | 0.6 | 0.5 | 5.6 | 5.7 |
| FeO | 0.8 | 0.7 | 1.3 | 5.0 | 5.1 |
| MnO | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| MgO | 0.2 | 0.2 | 0.5 | 4.4 | 4.4 |
| CaO | 0.8 | 0.9 | 1.5 | 4.7 | 5.0 |
| Na ₂ O | 3.8 | 4.0 | 3.8 | 3.7 | 3.8 |
| K ₂ O | 5.2 | 4.6 | 4.5 | 3.7 | 3.3 |
| P ₂ O ₅ | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 |
| LOI | 0.62 | 0.47 | 0.77 | 1.14 | 1.17 |
| Cl | <0.01 | <0.01 | <0.01 | | |
| F | 0.17 | 0.10 | 0.14 | | |
| Total | 100.13 | 100.14 | 99.78 | 99.98 | 99.25 |
| Rb (ppm) | 353.65 | 308.04 | 286.72 | 97.00 | 95.00 |
| Cs | 12.75 | 6.55 | 10.75 | 3.20 | 4.00 |
| Ba | 183.00 | 80.00 | 393.00 | 1226.00 | 1175.00 |
| Sr | 45.94 | 54.38 | 128.71 | 852.00 | 858.00 |
| Ga | 20 | 18 | 20 | 19 | 20 |
| Li | 130 | 100 | 88 | | |
| Tl | 3 | 5 | <1 | | |
| Ta | 3.9 | 4.6 | 3.4 | 0.6 | 0.7 |
| Nb | 21.7 | 26.2 | 23.8 | 7.5 | 8.2 |
| Hf | 3.6 | 4.7 | 5.2 | 5.2 | 5.8 |
| Zr | 98.1 | 94.3 | 148.7 | 215.0 | 229.0 |
| Y | 34.1 | 58.5 | 47.7 | 17.6 | 18.5 |
| Th | 25.0 | 33.5 | 29.5 | 22.7 | 23.8 |
| U | 13.0 | 14.0 | 12.4 | 3.2 | 3.0 |
| La | 27.9 | 25.3 | 46.3 | 71.5 | 72.3 |
| Ce | 62.0 | 53.0 | 86.0 | 135.0 | 138.0 |
| Pr | | | | 15.5 | 15.8 |
| Nd | 24.0 | 26.0 | 36.0 | 55.4 | 57.1 |
| Sm | 6.3 | 6.1 | 7.0 | 9.1 | 8.9 |
| Eu | 0.5 | 0.4 | 0.9 | 2.1 | 2.2 |
| Gd | | | | 5.3 | 5.6 |
| Tb | 1.1 | 1.5 | 1.3 | 0.6 | 0.7 |
| Dy | | | | 3.5 | 3.6 |
| Ho | | | | 0.6 | 0.7 |
| Er | | | | 1.7 | 1.7 |
| Tm | | | | 0.2 | 0.3 |
| Yb | 3.3 | 6.6 | 4.9 | 1.6 | 1.7 |
| Lu | 0.6 | 1.0 | 0.8 | 0.2 | 0.3 |

| | | | | | |
|----|--------|-------|--------|-------|-------|
| Cr | 4.0 | <0.5 | 7.0 | 157.0 | 162.0 |
| Ni | 2.0 | 1.5 | 3.0 | 80.0 | 90.0 |
| Co | 1.6 | 1.8 | 3.4 | 20.0 | 20.0 |
| Sc | 3.0 | 4.7 | 5.2 | 13.0 | 13.0 |
| V | 9.5 | 10.5 | 23.0 | 118.0 | 119.0 |
| Cu | 1.0 | 0.5 | 1.0 | 70.0 | 40.0 |
| Pb | 24.0 | 20.0 | 28.0 | 19.0 | 21.0 |
| Zn | 22.5 | 24.5 | 34.5 | 60.0 | 70.0 |
| Mn | 410.0 | 460.0 | 400.0 | | |
| Bi | <0.1 | <0.1 | <0.1 | < 0.1 | < 0.1 |
| Cd | <0.5 | <0.5 | <0.5 | | |
| Sn | 22.0 | 11.0 | 20.0 | 1.0 | 1.0 |
| W | 2.5 | 1.0 | 1.0 | < 0.5 | 0.8 |
| Mo | <0.5 | <0.5 | <0.5 | < 2 | < 2 |
| F | 1700.0 | 970.0 | 1400.0 | | |
| Cl | <25 | <25 | <25 | | |
| Br | 1.0 | <0.3 | 0.9 | | |
| B | 10.0 | 20.0 | 10.0 | | |
| Be | 10.0 | 9.0 | 8.0 | 2.0 | 3.0 |
| Au | <0.3 | <0.3 | <0.3 | 5.0 | < 2 |
| Ge | <5 | 10.0 | 10.0 | 1.1 | 1.0 |
| As | 1.0 | 0.5 | <0.2 | 1.9 | < 0.5 |
| Se | <0.4 | <0.4 | <0.4 | | |
| Sb | 0.4 | 0.2 | 0.3 | 0.2 | 0.2 |

Table S1: Continued.

| Sample | Rv-3-21.3M-Rivere Verte | RV-3-23.9M Rivere Verte | Mine Gaspé | Mine Gaspé | FY-GR1 Eagle Lake | FY-GR2 Eagle Lake |
|--------------------------------|-------------------------|----------------------------|------------|------------|----------------------|----------------------|
| Batholith/Suite | Rivere Verte | | D1 | D2 | | |
| SiO ₂ (wt. %) | 62.6 | 66.9 | 70.5 | 67.5 | 73.0 | 71.8 |
| TiO ₂ | 0.6 | 0.5 | 0.4 | 0.5 | 0.1 | 0.2 |
| Al ₂ O ₃ | 15.6 | 16.5 | 14.9 | 15.4 | 13.2 | 14.4 |
| Fe ₂ O ₃ | 2.7 | 4.0 | 0.9 | 1.6 | | |
| FeO | 2.4 | 3.6 | 1.0 | 0.9 | 0.8 | 1.5 |
| MnO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MgO | 1.7 | 1.3 | 0.8 | 1.1 | 0.3 | 0.5 |
| CaO | 4.2 | 2.7 | 2.1 | 3.2 | 1.4 | 1.0 |
| Na ₂ O | 4.2 | 4.2 | 4.9 | 4.8 | 4.4 | 3.9 |
| K ₂ O | 3.1 | 3.2 | 3.5 | 3.4 | 3.9 | 4.4 |
| P ₂ O ₅ | 0.2 | 0.1 | 0.1 | 0.2 | 0.0 | 0.1 |
| LOI | 4.58 | 1.13 | | | 1.72 | 0.88 |
| Cl | | | | | | |
| F | | | | | | |
| Total | 99.48 | 100.40 | 99.93 | 99.64 | 99.05 | 98.68 |
| Rb (ppm) | 136.00 | 65.00 | 81.00 | 71.00 | 152.00 | 176.00 |
| Cs | 2.10 | 2.00 | 0.50 | 0.80 | 2.40 | 3.10 |
| Ba | 438.00 | 931.00 | 798.00 | 932.00 | 470.00 | 580.00 |
| Sr | 368.00 | 682.00 | 577.00 | 798.00 | 159.00 | 282.00 |
| Ga | 21 | 18 | 19 | 21 | 16 | 20 |
| Li | | | | 15 | | |
| Tl | | | | | 0.8 | 0.81 |
| Ta | 0.4 | 0.4 | 1.9 | 1.5 | 0.9 | 1.2 |
| Nb | 4.7 | 3.8 | 17.0 | 19.0 | 7.2 | 9.2 |
| Hf | 3.2 | 3.1 | 4.3 | 4.5 | 2.4 | 3.4 |
| Zr | 130.0 | 118.0 | 168.0 | 224.0 | 80.0 | 115.0 |
| Y | 40.5 | 8.6 | 12.0 | 12.0 | 18.5 | 17.8 |
| Th | 4.3 | 4.8 | 10.0 | 9.1 | 17.0 | 16.1 |
| U | 2.1 | 1.5 | 1.5 | 2.5 | 3.9 | 3.2 |
| La | 23.3 | 26.0 | 36.0 | 51.0 | 23.5 | 29.8 |
| Ce | 49.2 | 49.3 | 63.0 | 97.0 | 46.2 | 58.5 |
| Pr | 6.5 | 5.6 | | 9.7 | 5.3 | 6.7 |
| Nd | 28.5 | 20.7 | 16.9 | 33.1 | 19.2 | 23.5 |
| Sm | 7.9 | 3.6 | 3.6 | 5.2 | 3.6 | 4.5 |
| Eu | 1.2 | 1.2 | 1.0 | 1.2 | 0.6 | 0.7 |
| Gd | 7.8 | 2.5 | | 4.1 | 3.1 | 3.2 |
| Tb | 1.4 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 |
| Dy | 8.3 | 1.7 | | 2.7 | 3.2 | 3.1 |
| Ho | 1.6 | 0.3 | | 0.5 | 0.7 | 0.6 |
| Er | 4.0 | 0.8 | | 1.2 | 2.0 | 1.8 |
| Tm | 0.5 | 0.1 | | 0.2 | 0.3 | 0.3 |
| Yb | 3.0 | 0.7 | 1.1 | 1.2 | 2.2 | 2.0 |
| Lu | 0.4 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 |

| | | | | | | |
|----|------|-------|------|-------|-------|-------|
| Cr | 13.0 | 21.0 | 7.0 | 13.0 | < 20 | 30.0 |
| Ni | < 20 | < 20 | 14.0 | 16.0 | < 20 | < 20 |
| Co | 7.0 | 8.0 | | | 1.0 | 2.0 |
| Sc | 6.0 | 6.0 | 3.4 | 3.8 | 5.0 | 5.0 |
| V | 57.0 | 52.0 | | 38.0 | 11.0 | 19.0 |
| Cu | 80.0 | 70.0 | 8.0 | 133.0 | < 10 | < 10 |
| Pb | < 5 | < 5 | | 5.0 | 17.0 | 25.0 |
| Zn | 40.0 | 40.0 | 27.0 | 10.0 | < 30 | 40.0 |
| Mn | | | | | | |
| Bi | 0.3 | < 0.1 | | | 0.1 | < 0.1 |
| Cd | | | | | 3.1 | 3.2 |
| Sn | < 1 | 1.0 | | | 1.0 | 2.0 |
| W | 17.4 | 2.0 | | | 1.7 | < 0.5 |
| Mo | < 2 | < 2 | | | < 2 | < 2 |
| F | | | | | | |
| Cl | | | | | | |
| Br | | | | | < 0.5 | < 0.5 |
| B | | | | | | |
| Be | 2.0 | 2.0 | | | 3.0 | 4.0 |
| Au | < 2 | < 2 | | | < 2 | < 2 |
| Ge | 1.1 | 0.8 | | | 1.2 | 1.0 |
| As | 3.0 | 1.4 | | | < 5 | < 5 |
| Se | | | | | < 3 | < 3 |
| Sb | 0.5 | < 0.2 | | | 0.3 | 0.3 |

Table S1: Continued.

| Sample | 2010CB01 | 2010CB02 | 2010CB03 | 2010CB04 | 2010CB05 | 2010CB06 |
|--------------------------------|----------|----------|----------|----------|----------|----------|
| Batholith/Suite | Evandale | Evandale | Evandale | Evandale | Evandale | Evandale |
| SiO ₂ (wt. %) | 67.1 | 68.5 | 69.3 | 66.9 | 68.8 | 68.9 |
| TiO ₂ | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.4 |
| Al ₂ O ₃ | 15.5 | 16.4 | 16.3 | 16.2 | 15.7 | 15.3 |
| Fe ₂ O ₃ | 3.2 | 3.3 | 3.4 | 3.8 | 3.5 | 2.7 |
| FeO | 2.9 | 3.0 | 3.1 | 3.5 | 3.2 | 2.4 |
| MnO | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| MgO | 2.3 | 2.3 | 2.3 | 2.7 | 2.7 | 1.9 |
| CaO | 2.7 | 2.9 | 2.9 | 3.1 | 3.0 | 2.5 |
| Na ₂ O | 3.7 | 4.0 | 4.1 | 3.9 | 3.7 | 3.7 |
| K ₂ O | 3.9 | 3.8 | 3.8 | 3.7 | 4.0 | 3.9 |
| P ₂ O ₅ | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 |
| LOI | | | | | | |
| Cl | | | | | | |
| F | | | | | | |
| Total | 99.48 | 102.17 | 103.13 | 101.64 | 102.57 | 99.86 |
| Rb (ppm) | 175.00 | 167.00 | 174.00 | 159.00 | 183.00 | 175.00 |
| Cs | 6.00 | 7.00 | 6.00 | 6.00 | 5.00 | 6.00 |
| Ba | 689.00 | 614.00 | 604.00 | 691.00 | 606.00 | 650.00 |
| Sr | 396.00 | 405.00 | 372.00 | 399.00 | 351.00 | 341.00 |
| Ga | 21 | 21 | 21 | 21 | 19 | 18 |
| Li | 30 | 27 | 29 | 28 | 26 | 27 |
| Tl | | | | | | |
| Ta | | | | | | |
| Nb | 16.0 | 16.0 | 18.0 | 19.0 | 17.0 | 12.0 |
| Hf | 4.0 | 5.0 | 6.0 | 5.0 | 5.0 | 5.0 |
| Zr | 201.0 | 190.0 | 207.0 | 190.0 | 199.0 | 147.0 |
| Y | 14.0 | 12.0 | 15.0 | 15.0 | 15.0 | 10.0 |
| Th | 17.0 | 16.0 | 20.0 | 17.0 | 20.0 | 22.0 |
| U | 5.0 | 3.0 | 3.0 | 6.0 | 6.0 | 5.0 |
| La | 44.6 | 44.1 | 44.6 | 45.3 | 47.8 | 46.5 |
| Ce | 77.0 | 55.0 | 88.0 | 90.0 | 87.0 | 44.0 |
| Pr | | | | | | |
| Nd | 18.0 | 20.0 | 34.0 | 25.0 | 29.0 | 18.0 |
| Sm | 5.3 | 4.7 | 5.2 | 5.4 | 5.4 | 4.0 |
| Eu | 1.1 | 1.0 | 0.9 | 1.2 | 1.2 | 0.8 |
| Gd | | | | | | |
| Tb | | | | | | |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | 1.8 | 1.2 | 1.3 | 1.3 | 1.9 | 0.9 |
| Lu | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 |

| | | | | | | |
|----|------|------|------|------|------|------|
| Cr | 28.0 | 27.0 | 25.0 | 32.0 | 27.0 | 37.0 |
| Ni | 17.0 | 18.0 | 16.0 | 20.0 | 21.0 | 20.0 |
| Co | 12.0 | 11.0 | 11.0 | 10.0 | 10.0 | 8.0 |
| Sc | 6.0 | 5.8 | 6.0 | 6.8 | 6.9 | 5.1 |
| V | 48.0 | 46.0 | 50.0 | 59.0 | 52.0 | 40.0 |
| Cu | 16.0 | 12.0 | 13.0 | 10.0 | 13.0 | 7.0 |
| Pb | 14.0 | 11.0 | 10.0 | 12.0 | 17.0 | 16.0 |
| Zn | 27.0 | 24.0 | 31.0 | 42.0 | 22.0 | 37.0 |
| Mn | | | | | | |
| Bi | | | | | | |
| Cd | | | | | | |
| Sn | | | | | | |
| W | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mo | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| F | | | | | | |
| Cl | | | | | | |
| Br | | | | | | |
| B | | | | | | |
| Be | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Au | | | | | | |
| Ge | | | | | | |
| As | | | | | | |
| Se | | | | | | |
| Sb | 0.6 | 1.3 | 0.9 | 1.1 | 1.3 | 0.0 |

Table S1: Continued.

| Sample | 2010CB07 | 2010CB08 | 2010CB09 | 2010CB11 | 2010CB12 | 2010CB14 |
|--------------------------------|----------|----------|----------|----------|----------|----------|
| Batholith/Suite | Evandale | Evandale | Evandale | Evandale | Evandale | Evandale |
| SiO ₂ (wt. %) | 70.2 | 68.1 | 67.3 | 65.7 | 68.4 | 71.7 |
| TiO ₂ | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 |
| Al ₂ O ₃ | 15.7 | 17.4 | 17.9 | 17.1 | 16.8 | 15.6 |
| Fe ₂ O ₃ | 2.8 | 2.6 | 2.7 | 2.5 | 3.4 | 2.8 |
| FeO | 2.6 | 2.4 | 2.4 | 2.3 | 3.0 | 2.6 |
| MnO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MgO | 2.1 | 1.0 | 1.2 | 1.2 | 1.3 | 1.8 |
| CaO | 2.7 | 1.8 | 2.6 | 1.8 | 2.9 | 2.6 |
| Na ₂ O | 3.7 | 2.2 | 3.1 | 2.5 | 3.9 | 4.1 |
| K ₂ O | 4.0 | 6.0 | 4.2 | 4.8 | 3.8 | 3.5 |
| P ₂ O ₅ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| LOI | | | | | | |
| Cl | | | | | | |
| F | | | | | | |
| Total | 102.01 | 100.22 | 100.39 | 96.57 | 101.58 | 102.95 |
| Rb (ppm) | 181.00 | 287.00 | 233.00 | 272.00 | 218.00 | 157.00 |
| Cs | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ba | 587.00 | 678.00 | 530.00 | 571.00 | 597.00 | 734.00 |
| Sr | 313.00 | 243.00 | 192.00 | 172.00 | 204.00 | 332.00 |
| Ga | 21 | 18 | 20 | 20 | 19 | 20 |
| Li | 16 | 15 | 13 | 16 | 24 | 20 |
| Tl | | | | | | |
| Ta | | | | | | |
| Nb | 13.0 | 10.0 | 10.0 | 10.0 | 11.0 | 11.0 |
| Hf | 4.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| Zr | 150.0 | 197.0 | 200.0 | 200.0 | 217.0 | 196.0 |
| Y | 11.0 | 8.0 | 9.0 | 9.0 | 11.0 | 9.0 |
| Th | 22.0 | 26.0 | 26.0 | 28.0 | 25.0 | 25.0 |
| U | 4.0 | 8.0 | 10.0 | 7.0 | 7.0 | 9.0 |
| La | 40.9 | 41.3 | 38.8 | 39.8 | 51.8 | 38.2 |
| Ce | 54.0 | 102.0 | 105.0 | 103.0 | 105.0 | 72.0 |
| Pr | | | | | | |
| Nd | 19.0 | 22.0 | 23.0 | 25.0 | 25.0 | 18.0 |
| Sm | 4.4 | 4.1 | 3.8 | 4.1 | 4.4 | 4.0 |
| Eu | 1.1 | 1.1 | 0.5 | 0.5 | 0.3 | 0.8 |
| Gd | | | | | | |
| Tb | | | | | | |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | 1.4 | 0.7 | 0.6 | 0.6 | 1.5 | 1.1 |
| Lu | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 |

| | | | | | | |
|----|------|-------|------|------|------|------|
| Cr | 27.0 | 17.0 | 16.0 | 23.0 | 19.0 | 25.0 |
| Ni | 17.0 | 13.0 | 10.0 | 12.0 | 17.0 | 16.0 |
| Co | 7.0 | 4.0 | 6.0 | 0.0 | 0.0 | 9.0 |
| Sc | 5.5 | 3.2 | 3.2 | 3.4 | 5.7 | 4.5 |
| V | 39.0 | 30.0 | 31.0 | 33.0 | 46.0 | 36.0 |
| Cu | 12.0 | 108.0 | 8.0 | 12.0 | 75.0 | 56.0 |
| Pb | 12.0 | 9.0 | 4.0 | 9.0 | 5.0 | 10.0 |
| Zn | 43.0 | 32.0 | 22.0 | 15.0 | 17.0 | 36.0 |
| Mn | | | | | | |
| Bi | | | | | | |
| Cd | | | | | | |
| Sn | | | | | | |
| W | 0.0 | 9.0 | 0.0 | 0.0 | 10.0 | 0.0 |
| Mo | 0.0 | 2.0 | 2.0 | 0.0 | 4.0 | 0.0 |
| F | | | | | | |
| Cl | | | | | | |
| Br | | | | | | |
| B | | | | | | |
| Be | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Au | | | | | | |
| Ge | | | | | | |
| As | | | | | | |
| Se | | | | | | |
| Sb | 1.0 | 44.7 | 6.3 | 16.9 | 8.5 | 0.8 |

Table S1: Continued.

| Sample | 2010CB15 | 2010CB16 | 2010CB18 | SEV01125 | SEV01126 | SEV01127 |
|--------------------------------|----------|----------|----------|----------|----------|----------|
| Batholith/Suite | Evandale | Evandale | Evandale | Evandale | Evandale | Evandale |
| SiO ₂ (wt. %) | 67.9 | 78.5 | 62.1 | 66.1 | 61.6 | 64.6 |
| TiO ₂ | 0.4 | 0.1 | 0.8 | 0.6 | 0.7 | 0.6 |
| Al ₂ O ₃ | 18.4 | 14.1 | 16.3 | 16.3 | 14.4 | 15.8 |
| Fe ₂ O ₃ | 3.3 | 0.9 | 5.1 | 3.6 | 3.8 | 3.6 |
| FeO | 3.0 | 0.8 | 4.6 | | | |
| MnO | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| MgO | 1.6 | 0.1 | 3.1 | 2.6 | 2.7 | 2.8 |
| CaO | 3.0 | 0.6 | 4.0 | 3.4 | 3.2 | 3.3 |
| Na ₂ O | 0.9 | 3.5 | 4.3 | 4.0 | 3.4 | 3.7 |
| K ₂ O | 4.1 | 5.1 | 2.8 | 3.6 | 3.6 | 3.8 |
| P ₂ O ₅ | 0.1 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 |
| LOI | | | | | | |
| Cl | | | | 253.6721 | 284.9434 | 252.0757 |
| F | | | | | | |
| Total | 100.54 | 103.23 | 99.14 | 100.66 | 93.91 | 98.73 |
| Rb (ppm) | 208.00 | 183.00 | 152.00 | 140.80 | 142.98 | 147.42 |
| Cs | 0.00 | 4.00 | 9.00 | 4.00 | 4.00 | 3.00 |
| Ba | 463.00 | 147.00 | 557.00 | 652.88 | 686.81 | 700.74 |
| Sr | 146.00 | 75.00 | 428.00 | 387.88 | 378.04 | 382.00 |
| Ga | 17 | 17 | 23 | 20.8144 | 20.40336 | 21.3402 |
| Li | 56 | 9 | 52 | | | |
| Tl | | | | | | |
| Ta | | | | < 0.5 | 1.9 | 1.5 |
| Nb | 10.0 | 10.0 | 23.0 | 12.4 | 14.1 | 13.1 |
| Hf | 4.0 | 5.0 | 8.0 | 5.0 | 6.0 | 5.0 |
| Zr | 194.0 | 76.0 | 276.0 | 197.4 | 224.5 | 186.1 |
| Y | 10.0 | 4.0 | 22.0 | 12.7 | 14.4 | 13.0 |
| Th | 20.0 | 32.0 | 16.0 | 18.6 | 20.3 | 16.9 |
| U | 5.0 | 2.0 | 20.0 | 3.2 | 4.4 | 4.1 |
| La | 34.1 | 33.9 | 57.9 | 36.8 | 44.8 | 41.7 |
| Ce | 84.0 | 61.0 | 91.0 | 64.0 | 75.0 | 69.0 |
| Pr | | | | | | |
| Nd | 10.0 | 0.0 | 68.0 | 26.0 | 25.0 | 19.0 |
| Sm | 3.6 | 1.0 | 9.0 | 4.1 | 4.8 | 4.3 |
| Eu | 0.8 | 0.0 | 1.9 | 1.1 | 1.3 | 1.1 |
| Gd | | | | | | |
| Tb | | | | < 0.5 | < 0.5 | < 0.5 |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | 0.7 | 0.7 | 2.2 | 1.4 | 1.4 | 1.3 |
| Lu | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |

| | | | | | | |
|----|------|------|------|--------|--------|--------|
| Cr | 16.0 | 7.0 | 43.0 | 30.0 | 33.0 | 33.0 |
| Ni | 11.0 | 9.0 | 26.0 | 12.6 | 16.9 | 12.8 |
| Co | 9.0 | 0.0 | 16.0 | 11.0 | 11.0 | 9.0 |
| Sc | 3.7 | 1.0 | 10.0 | 7.1 | 8.1 | 7.5 |
| V | 34.0 | 5.0 | 80.0 | 54.1 | 70.0 | 55.3 |
| Cu | 6.0 | 4.0 | 12.0 | 13.3 | 14.3 | 17.4 |
| Pb | 8.0 | 14.0 | 11.0 | 13.8 | 17.5 | 13.5 |
| Zn | 23.0 | 14.0 | 74.0 | 27.7 | 31.4 | 26.3 |
| Mn | | | | | | |
| Bi | | | | | | |
| Cd | | | | | | |
| Sn | | | | < 0.01 | < 0.01 | < 0.01 |
| W | 10.0 | 0.0 | 0.0 | < 1 | < 1 | < 1 |
| Mo | 2.0 | 1.0 | 0.0 | 0.5 | 3.0 | 0.5 |
| F | | | | | | |
| Cl | | | | | | |
| Br | | | | | | |
| B | | | | | | |
| Be | 2.0 | 5.0 | 3.0 | | | |
| Au | | | | < 2 | < 2 | 3.0 |
| Ge | | | | | | |
| As | | | | 2.9 | 4.3 | 3.5 |
| Se | | | | < 3 | < 3 | < 3 |
| Sb | 57.3 | 0.4 | 0.6 | 0.4 | 0.3 | 0.3 |

Table S1: Continued.

| Sample | SEV01128 | JL-09-024 | JL-09-057 | JL-10-139 | 7020-101 | 7012-130 |
|--------------------------------|----------|-----------|-----------|-----------|----------|----------|
| Batholith/Suite | Evandale | BMGS | BMGS | BMGS | BMGS | BMGS |
| SiO ₂ (wt. %) | 62.6 | 66.4 | 70.4 | 66.0 | 67.9 | 67.3 |
| TiO ₂ | 0.7 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| Al ₂ O ₃ | 14.4 | 17.0 | 15.3 | 16.8 | 16.4 | 16.0 |
| Fe ₂ O ₃ | 3.7 | 3.0 | 1.9 | 3.0 | 2.1 | 2.7 |
| FeO | | 2.7 | 1.7 | 2.7 | 1.9 | 2.4 |
| MnO | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 |
| MgO | 2.7 | 1.4 | 0.8 | 1.8 | 1.2 | 1.1 |
| CaO | 3.1 | 2.8 | 2.1 | 3.0 | 3.4 | 2.8 |
| Na ₂ O | 3.4 | 5.0 | 4.5 | 4.7 | 4.5 | 5.1 |
| K ₂ O | 3.7 | 1.8 | 2.7 | 1.4 | 2.1 | 1.9 |
| P ₂ O ₅ | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| LOI | | | | | | |
| Cl | 372.5282 | | | | | |
| F | | | | | | |
| Total | 94.93 | | | | | |
| Rb (ppm) | 148.18 | 39.00 | 47.00 | 36.00 | 40.00 | 34.00 |
| Cs | 4.00 | | | | | |
| Ba | 683.13 | 413.00 | 443.00 | 365.00 | 526.00 | 442.00 |
| Sr | 378.54 | 707.00 | 388.00 | 523.00 | 581.00 | 614.00 |
| Ga | 22.12301 | 0 | 0 | 0 | 0 | 0 |
| Li | | | | | | |
| Tl | | | | | | |
| Ta | 2.7 | 0.8 | 1.2 | 0.9 | 0.9 | 0.8 |
| Nb | 12.9 | 7.0 | 7.0 | 5.0 | 5.0 | 5.0 |
| Hf | 5.0 | 3.6 | 3.3 | 3.1 | 3.2 | 3.5 |
| Zr | 211.2 | 136.0 | 118.0 | 122.0 | 126.0 | 148.0 |
| Y | 11.9 | 7.0 | 8.0 | 7.0 | 7.0 | 6.0 |
| Th | 19.8 | 5.0 | 7.0 | 4.0 | 5.0 | 4.0 |
| U | 4.2 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| La | 39.9 | 20.4 | 21.8 | 13.4 | 23.2 | 23.6 |
| Ce | 68.0 | 38.9 | 41.9 | 25.2 | 45.0 | 46.8 |
| Pr | | 4.2 | 4.4 | 2.8 | 4.7 | 4.8 |
| Nd | 20.0 | 16.1 | 16.2 | 10.6 | 16.4 | 17.3 |
| Sm | 4.3 | 2.3 | 2.4 | 1.9 | 2.5 | 2.4 |
| Eu | 1.1 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 |
| Gd | | 1.8 | 1.7 | 1.5 | 1.7 | 1.6 |
| Tb | < 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| Dy | | 1.4 | 1.4 | 1.2 | 1.1 | 1.1 |
| Ho | | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 |
| Er | | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 |
| Tm | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Yb | 1.4 | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 |
| Lu | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

| | | | | | | |
|----|--------|------|-------|-------|-------|------|
| Cr | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ni | 7.8 | 10.0 | 4.0 | 6.0 | 8.0 | 7.0 |
| Co | 12.0 | | | | | |
| Sc | 7.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| V | 62.9 | 32.0 | 22.0 | 38.0 | 28.0 | 24.0 |
| Cu | 12.8 | 17.0 | 108.0 | 394.0 | 506.0 | 30.0 |
| Pb | 10.9 | 2.0 | 2.0 | 1.0 | 1.0 | 3.0 |
| Zn | < 2 | 90.0 | 13.0 | 32.0 | 20.0 | 63.0 |
| Mn | | | | | | |
| Bi | | | | | | |
| Cd | | | | | | |
| Sn | < 0.01 | | | | | |
| W | < 1 | | | | | |
| Mo | 0.5 | | | | | |
| F | | | | | | |
| Cl | | | | | | |
| Br | | | | | | |
| B | | | | | | |
| Be | | | | | | |
| Au | < 2 | | | | | |
| Ge | | | | | | |
| As | 2.8 | | | | | |
| Se | < 3 | | | | | |
| Sb | < 0.1 | | | | | |

Table S1: Continued.

| Sample | 7003-295 | WX85NB-188 | WX85NB-118 | WX85NB-119 | WX85NB-120 | WX85NB-121 |
|--------------------------------|----------|------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Batholith/Suite | BMGS | Beech Hill | North Pole Stream Suite | North Pole Stream Suite | North Pole Stream Suite | North Pole Stream Suite |
| SiO ₂ (wt. %) | 66.4 | 75.2 | 69.6 | 54.4 | 72.3 | 66.6 |
| TiO ₂ | 0.4 | 0.2 | 0.6 | 0.8 | 0.3 | 0.8 |
| Al ₂ O ₃ | 15.5 | 12.7 | 14.3 | 17.3 | 13.7 | 15.2 |
| Fe ₂ O ₃ | 2.5 | | 1.1 | 1.7 | 0.6 | 1.4 |
| FeO | 2.2 | 0.6 | 1.9 | 4.2 | 1.0 | 2.7 |
| MnO | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| MgO | 1.1 | 0.2 | 0.9 | 5.4 | 0.5 | 1.3 |
| CaO | 3.5 | 0.9 | 2.3 | 8.7 | 1.6 | 2.8 |
| Na ₂ O | 3.7 | 3.9 | 3.6 | 3.2 | 3.5 | 4.2 |
| K ₂ O | 2.3 | 4.7 | 3.8 | 1.4 | 4.6 | 3.1 |
| P ₂ O ₅ | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 |
| LOI | | 0.54 | 0.62 | 1.54 | 0.70 | 0.47 |
| Cl | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| F | | 0.17 | 0.08 | 0.04 | 0.05 | 0.04 |
| Total | | 99.95 | 99.17 | 99.06 | 99.11 | 99.10 |
| Rb (ppm) | 53.00 | 375.98 | 137.87 | 52.30 | 233.92 | 93.14 |
| Cs | | 13.80 | 4.50 | 3.02 | 9.70 | 2.58 |
| Ba | 485.00 | 192.00 | 1000.00 | 181.00 | 442.00 | 673.00 |
| Sr | 271.00 | 54.64 | 200.20 | 407.66 | 96.24 | 183.48 |
| Ga | 0 | 18 | 16 | 17 | 16 | 19 |
| Li | | 100 | 18 | 18 | 48 | 18 |
| Tl | | 1.5 | <1 | <1 | <1 | <1 |
| Ta | 0.6 | 4.3 | 1.0 | 0.7 | 1.4 | 0.7 |
| Nb | 5.0 | 37.3 | 16.1 | 6.9 | 16.0 | 15.8 |
| Hf | 3.4 | 6.0 | 8.5 | 3.0 | 4.8 | 8.8 |
| Zr | 146.0 | 147.0 | 239.0 | 98.7 | 134.7 | 296.7 |
| Y | 6.0 | 69.6 | 33.9 | 18.3 | 31.8 | 27.9 |
| Th | 4.0 | 43.5 | 18.0 | 7.5 | 20.5 | 11.2 |
| U | 1.0 | 16.5 | 3.2 | 2.0 | 5.8 | 1.4 |
| La | 21.1 | 56.6 | 95.2 | 21.8 | 42.3 | 40.0 |
| Ce | 41.3 | 103.0 | 155.0 | 39.0 | 75.0 | 73.5 |
| Pr | 4.2 | | | | | |
| Nd | 15.3 | 39.0 | 53.0 | 16.0 | 30.0 | 34.0 |
| Sm | 2.3 | 7.0 | 8.0 | 3.0 | 5.5 | 6.7 |
| Eu | 0.7 | 0.6 | 2.2 | 1.1 | 0.9 | 1.5 |
| Gd | 1.5 | | | | | |
| Tb | 0.2 | 1.6 | 1.2 | 0.6 | 1.0 | 1.0 |
| Dy | 1.1 | | | | | |
| Ho | 0.2 | | | | | |
| Er | 0.5 | | | | | |
| Tm | 0.1 | | | | | |
| Yb | 0.5 | 8.5 | 3.2 | 1.7 | 3.3 | 2.4 |
| Lu | 0.1 | 1.3 | 0.4 | 0.3 | 0.5 | 0.3 |

| | | | | | | |
|----|------|--------|-------|-------|-------|-------|
| Cr | 0.0 | <0.5 | 6.5 | 179.0 | 7.0 | 9.5 |
| Ni | 7.0 | 1.0 | 2.5 | 44.3 | 3.0 | 5.0 |
| Co | | 1.9 | 6.8 | 26.5 | 3.6 | 8.8 |
| Sc | 0.0 | 4.0 | 10.4 | 24.6 | 5.9 | 11.9 |
| V | 25.0 | 12.0 | 51.5 | 160.5 | 24.5 | 70.0 |
| Cu | 9.0 | 2.3 | 9.5 | 17.5 | 2.5 | 11.5 |
| Pb | 1.0 | 18.0 | 20.0 | 6.0 | 32.0 | 17.0 |
| Zn | 27.0 | 21.0 | 40.0 | 53.8 | 23.0 | 57.0 |
| Mn | | 325.0 | 500.0 | 795.0 | 390.0 | 520.0 |
| Bi | | 0.3 | <0.1 | <0.1 | 1.2 | <0.1 |
| Cd | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Sn | | 8.8 | <0.5 | <0.5 | 28.0 | 2.3 |
| W | | 3.5 | <0.5 | 0.5 | <0.5 | <0.5 |
| Mo | | <0.5 | <0.5 | <0.5 | <0.5 | 1.0 |
| F | | 1700.0 | 760.0 | 355.0 | 480.0 | 435.0 |
| Cl | | <25 | <25 | <25 | <25 | <25 |
| Br | | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| B | | 40.0 | 20.0 | 15.0 | 20.0 | 15.0 |
| Be | | 9.0 | 4.0 | 3.5 | 4.0 | 3.0 |
| Au | | 2.3 | 1.5 | 2.8 | <0.3 | <0.3 |
| Ge | | <5 | <5 | <5 | <5 | <5 |
| As | | 8.0 | <0.2 | 0.5 | 0.5 | 0.3 |
| Se | | 2.0 | <0.4 | <0.4 | <0.4 | <0.4 |
| Sb | | 1.0 | 0.2 | 0.1 | 1.3 | 0.1 |

Table S1: Continued.

| Sample | WX85NB-122 | WX85NB-123 | WX85NB-124 | CM-95-9 | CM-95-33 | CM-95-42 |
|--------------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|
| Batholith/Suite | North Pole Stream Suite | North Pole Stream Suite | North Pole Stream Suite | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke |
| SiO ₂ (wt. %) | 73.6 | 67.5 | 73.4 | 70.0 | 69.6 | 65.7 |
| TiO ₂ | 0.2 | 0.7 | 0.2 | 0.3 | 0.3 | 0.3 |
| Al ₂ O ₃ | 14.0 | 14.9 | 13.8 | 15.3 | 15.4 | 14.7 |
| Fe ₂ O ₃ | 0.5 | 1.5 | 0.4 | 2.0 | 2.2 | 1.7 |
| FeO | 0.8 | 2.1 | 0.7 | 0.8 | 0.2 | 0.1 |
| MnO | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| MgO | 0.4 | 1.1 | 0.3 | 1.1 | 0.7 | 0.5 |
| CaO | 1.1 | 2.8 | 0.8 | 3.9 | 3.1 | 5.1 |
| Na ₂ O | 3.9 | 3.8 | 3.5 | 5.1 | 5.6 | 2.9 |
| K ₂ O | 4.7 | 3.8 | 5.3 | 0.5 | 0.7 | 0.8 |
| P ₂ O ₅ | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| LOI | 0.77 | 0.62 | 0.54 | 0.80 | 1.50 | 7.50 |
| Cl | <0.01 | <0.01 | <0.01 | | | |
| F | 0.05 | 0.07 | 0.03 | | | |
| Total | 100.14 | 99.31 | 99.19 | 98.45 | 97.75 | 91.71 |
| Rb (ppm) | 229.64 | 115.43 | 229.78 | 10.00 | 14.00 | 23.00 |
| Cs | 8.20 | 2.60 | 7.05 | 0.25 | 0.25 | 1.00 |
| Ba | 350.00 | 1377.00 | 289.00 | 162.00 | 207.00 | 42.00 |
| Sr | 67.33 | 255.53 | 54.37 | 690.00 | 520.00 | 150.00 |
| Ga | 18 | 18 | 16 | | | |
| Li | 40 | 22 | 30 | | | |
| Tl | <1 | 1 | 2 | | | |
| Ta | 2.4 | 0.9 | 1.9 | 0.3 | 0.3 | 0.3 |
| Nb | 15.1 | 14.6 | 14.8 | 6.0 | 5.0 | 5.0 |
| Hf | 3.1 | 9.4 | 2.8 | 3.3 | 3.3 | 2.6 |
| Zr | 90.8 | 273.4 | 77.0 | 127.0 | 101.0 | 111.0 |
| Y | 30.3 | 29.9 | 29.6 | 5.8 | 5.9 | 4.7 |
| Th | 17.3 | 14.0 | 14.5 | 3.3 | 3.4 | 3.6 |
| U | 5.3 | 2.7 | 4.2 | 0.8 | 1.1 | 1.2 |
| La | 27.6 | 95.2 | 23.0 | 15.9 | 12.0 | 14.4 |
| Ce | 48.0 | 152.0 | 44.0 | 29.0 | 21.0 | 26.0 |
| Pr | | | | | | |
| Nd | 19.0 | 54.0 | 18.0 | 11.0 | 8.0 | 11.0 |
| Sm | 3.5 | 8.1 | 3.6 | 2.0 | 1.5 | 1.9 |
| Eu | 0.7 | 2.4 | 0.6 | 1.2 | 0.6 | 0.5 |
| Gd | | | | | | |
| Tb | 0.8 | 1.0 | 0.8 | 0.3 | 0.1 | 0.1 |
| Dy | | | | | | |
| Ho | | | | | | |
| Er | | | | | | |
| Tm | | | | | | |
| Yb | 2.6 | 2.9 | 2.7 | 0.5 | 0.5 | 0.4 |
| Lu | 0.4 | 0.4 | 0.4 | 0.1 | 0.1 | 0.1 |

| | | | | | | |
|----|-------|-------|-------|------|------|------|
| Cr | 4.6 | 7.5 | 3.3 | 34.0 | 8.0 | 35.0 |
| Ni | 2.0 | 4.3 | 0.5 | 6.0 | 3.0 | 6.0 |
| Co | 2.5 | 7.2 | 2.1 | 5.0 | 4.0 | 5.0 |
| Sc | 5.1 | 13.1 | 4.0 | 4.8 | 4.0 | 4.0 |
| V | 13.5 | 61.0 | 10.5 | 41.0 | 34.0 | 32.0 |
| Cu | 2.5 | 6.8 | 1.0 | 7.8 | 1.6 | 12.4 |
| Pb | 16.0 | 13.0 | 28.0 | 1.0 | 1.0 | 1.0 |
| Zn | 19.0 | 44.3 | 17.0 | 17.4 | 21.8 | 19.8 |
| Mn | 330.0 | 440.0 | 270.0 | | | |
| Bi | 0.2 | 0.8 | <0.1 | 0.1 | 0.1 | 0.1 |
| Cd | 0.5 | <0.5 | <0.5 | | | |
| Sn | 8.5 | 0.8 | 3.0 | | | |
| W | 0.5 | 0.8 | 1.0 | 0.5 | 0.5 | 3.0 |
| Mo | 1.0 | <0.5 | <0.5 | 0.5 | 0.5 | 0.5 |
| F | 500.0 | 725.0 | 330.0 | | | |
| Cl | <25 | <25 | <25 | | | |
| Br | <0.3 | 0.3 | <0.3 | 2.0 | 1.2 | 1.9 |
| B | 10.0 | 5.0 | 30.0 | | | |
| Be | 4.5 | 4.0 | 4.0 | 1.0 | 1.3 | 0.7 |
| Au | <0.3 | 0.8 | 1.0 | 1.0 | 6.0 | 1.0 |
| Ge | <5 | <5 | <5 | | | |
| As | 0.3 | <0.2 | 0.5 | 0.3 | 1.0 | 3.8 |
| Se | 1.0 | <0.4 | <0.4 | | | |
| Sb | 0.2 | <0.1 | 0.3 | 0.1 | 0.3 | 0.7 |

Table S1: Continued.

| Sample | CM-95-43 | CM-95-19 | CM-95-40 | CM-95-34 | CM-95-27 | CM-95-32 | CM-95-41 |
|--------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Batholith/Suite | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke | McKenzie Gulch porphyry dyke |
| SiO ₂ (wt. %) | 69.3 | 65.3 | 67.6 | 68.9 | 69.7 | 68.0 | 69.1 |
| TiO ₂ | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 |
| Al ₂ O ₃ | 15.5 | 15.3 | 15.3 | 15.5 | 15.3 | 14.8 | 15.2 |
| Fe ₂ O ₃ | 2.1 | 1.1 | 2.1 | 2.4 | 1.6 | 1.6 | 1.6 |
| FeO | 1.9 | 0.6 | 0.5 | 0.4 | 0.9 | 0.8 | 0.7 |
| MnO | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MgO | 1.3 | 0.4 | 0.9 | 1.1 | 0.7 | 0.7 | 0.7 |
| CaO | 2.3 | 5.2 | 2.9 | 3.0 | 2.4 | 3.2 | 2.8 |
| Na ₂ O | 5.5 | 5.3 | 5.3 | 5.4 | 5.5 | 4.9 | 5.3 |
| K ₂ O | 1.1 | 1.0 | 1.3 | 1.0 | 1.4 | 1.1 | 1.2 |
| P ₂ O ₅ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| LOI | 1.60 | 5.00 | 3.00 | 1.20 | 2.10 | 4.40 | 2.60 |
| Cl | | | | | | | |
| F | | | | | | | |
| Total | 97.65 | 94.23 | 95.87 | 97.89 | 97.00 | 94.70 | 96.17 |
| Rb (ppm) | 18.00 | 24.00 | 37.00 | 22.00 | 48.00 | 27.00 | 32.00 |
| Cs | 1.10 | 2.10 | 1.20 | 1.30 | 1.20 | 1.20 | 1.40 |
| Ba | 402.00 | 151.00 | 193.00 | 302.00 | 321.00 | 194.00 | 227.00 |
| Sr | 748.00 | 383.00 | 470.00 | 565.00 | 679.00 | 385.00 | 581.00 |
| Ga | | | | | | | |
| Li | | | | | | | |
| Tl | | | | | | | |
| Ta | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Nb | 5.0 | 4.0 | 3.0 | 5.0 | 4.0 | 4.0 | 3.0 |
| Hf | 3.9 | 3.3 | 3.4 | 3.1 | 3.1 | 3.4 | 3.6 |
| Zr | 114.0 | 120.0 | 117.0 | 106.0 | 116.0 | 111.0 | 117.0 |
| Y | 5.3 | 5.4 | 4.9 | 5.3 | 4.1 | 5.0 | 4.4 |
| Th | 3.5 | 3.1 | 3.2 | 3.3 | 3.7 | 3.8 | 3.8 |
| U | 1.0 | 0.8 | 1.1 | 0.8 | 1.0 | 1.1 | 1.3 |
| La | 16.2 | 7.7 | 13.8 | 13.5 | 15.4 | 16.8 | 16.5 |
| Ce | 28.0 | 15.0 | 24.0 | 24.0 | 27.0 | 30.0 | 28.0 |
| Pr | | | | | | | |
| Nd | 11.0 | 8.0 | 10.0 | 10.0 | 10.0 | 11.0 | 11.0 |
| Sm | 2.0 | 1.6 | 1.9 | 1.8 | 1.8 | 2.0 | 2.0 |
| Eu | 1.1 | 0.7 | 0.9 | 1.0 | 0.8 | 0.8 | 0.7 |
| Gd | | | | | | | |
| Tb | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.3 | 0.2 |
| Dy | | | | | | | |
| Ho | | | | | | | |
| Er | | | | | | | |
| Tm | | | | | | | |
| Yb | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 |

| | | | | | | | |
|----|------|------|------|------|------|------|------|
| Lu | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Cr | 6.0 | 20.0 | 21.0 | 21.0 | 23.0 | 32.0 | 8.0 |
| Ni | 5.0 | 6.0 | 8.0 | 8.0 | 4.0 | 4.0 | 9.0 |
| Co | 4.0 | 2.0 | 4.0 | 4.0 | 3.0 | 5.0 | 3.0 |
| Sc | 4.0 | 4.9 | 4.3 | 4.3 | 2.8 | 2.8 | 2.8 |
| V | 35.0 | 39.0 | 34.0 | 34.0 | 21.0 | 22.0 | 21.0 |
| Cu | 2.2 | 12.8 | 1.3 | 1.3 | 5.2 | 1.2 | 3.9 |
| Pb | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Zn | 22.6 | 17.6 | 27.0 | 27.0 | 16.1 | 17.7 | 9.9 |
| Mn | | | | | | | |
| Bi | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Cd | | | | | | | |
| Sn | | | | | | | |
| W | 0.5 | 3.0 | 0.5 | 0.5 | 0.5 | 0.3 | 0.5 |
| Mo | 8.0 | 22.0 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 |
| F | | | | | | | |
| Cl | | | | | | | |
| Br | 2.2 | 3.5 | 2.3 | 2.3 | 2.2 | 2.8 | 2.0 |
| B | | | | | | | |
| Be | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.1 |
| Au | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 7.0 |
| Ge | | | | | | | |
| As | 1.0 | 2.2 | 0.8 | 0.8 | 0.9 | 1.7 | 8.0 |
| Se | | | | | | | |
| Sb | 0.1 | 2.1 | 0.1 | 0.1 | 0.1 | 1.1 | 0.2 |