Suppl. Table 2. EMPA results for native gold and Ag-rich gold from the Preston and McLaughlin deposits

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Label** | | | **Te (wt%)** | | **Ag (wt%)** | | | **Au (wt%)** | | | **Cu (wt%)** | | | **Hg (wt%)** | | | **Total** | | |
| **Limit of Detection (L.O.D)** | | | **0.030** | | **0.063** | | | **0.079** | | | **0.017** | | | **0.059** | | |  | | |
| PR3-1-1 | | | L.O.D. | | 6.680 | | | 93.150 | | | 0.063 | | | 0.105 | | | 99.998 | | |
| PR3-1-2 | | | L.O.D. | | 6.730 | | | 93.310 | | | 0.062 | | | 0.076 | | | 100.178 | | |
| PR3-1-3 | | | L.O.D. | | 6.650 | | | 93.050 | | | 0.066 | | | 0.067 | | | 99.833 | | |
| PR3-1-4 | | | L.O.D. | | 6.660 | | | 93.160 | | | 0.073 | | | 0.075 | | | 99.968 | | |
| PR3-1-5 | | | L.O.D. | | 6.750 | | | 93.380 | | | 0.072 | | | L.O.D. | | | 100.202 | | |
| PR3-1-6 | | | L.O.D. | | 6.590 | | | 93.040 | | | 0.065 | | | L.O.D. | | | 99.695 | | |
| PR3-1-7 | | | L.O.D. | | 6.710 | | | 93.210 | | | 0.073 | | | 0.088 | | | 100.081 | | |
| PR3-1-8 | | | L.O.D. | | 6.710 | | | 93.330 | | | 0.074 | | | L.O.D. | | | 100.114 | | |
| PR3-1-9 | | | L.O.D. | | 6.600 | | | 92.920 | | | 0.071 | | | 0.070 | | | 99.660 | | |
| PR3-1-10 | | | L.O.D. | | 6.690 | | | 93.250 | | | 0.074 | | | L.O.D. | | | 100.014 | | |
| PR3-2-1 | | | L.O.D. | | 6.590 | | | 93.370 | | | 0.071 | | | 0.073 | | | 100.105 | | |
| PR3-2-2 | | | L.O.D. | | 6.650 | | | 93.220 | | | 0.066 | | | 0.075 | | | 100.010 | | |
| PR3-2-3 | | | L.O.D. | | 6.670 | | | 93.500 | | | 0.064 | | | 0.079 | | | 100.313 | | |
| PR3-2-4 | | | L.O.D. | | 6.720 | | | 93.020 | | | 0.066 | | | L.O.D. | | | 99.806 | | |
| PR3-2-5 | | | L.O.D. | | 6.680 | | | 93.140 | | | 0.059 | | | L.O.D. | | | 99.879 | | |
| PR3-2-6 | | | L.O.D. | | 6.590 | | | 93.300 | | | 0.074 | | | 0.092 | | | 100.056 | | |
| PR3-2-7 | | | L.O.D. | | 6.630 | | | 93.280 | | | 0.065 | | | L.O.D. | | | 99.975 | | |
| PR3-2-8 | | | L.O.D. | | 6.560 | | | 93.260 | | | 0.068 | | | 0.067 | | | 99.954 | | |
| PR3-2-9 | | | L.O.D. | | 6.630 | | | 93.370 | | | 0.076 | | | L.O.D. | | | 100.076 | | |
| PR3-2-10 | | | L.O.D. | | 6.700 | | | 93.250 | | | 0.071 | | | L.O.D. | | | 100.021 | | |
| PR3-3-1 | | | L.O.D. | | 6.670 | | | 93.490 | | | 0.064 | | | L.O.D. | | | 100.224 | | |
| PR3-3-2 | | | L.O.D. | | 6.610 | | | 93.070 | | | 0.068 | | | L.O.D. | | | 99.748 | | |
| PR3-3-3 | | | L.O.D. | | 6.690 | | | 93.280 | | | 0.061 | | | 0.071 | | | 100.102 | | |
| **Sample Label** | | | **Te (wt%)** | | **Ag (wt%)** | | | **Au (wt%)** | | | **Cu (wt%)** | | | **Hg (wt%)** | | | **Total** | | |
| **Limit of Detection (L.O.D)** | | | **0.030** | | **0.063** | | | **0.079** | | | **0.017** | | | **0.059** | | |  | | |
| PR3-3-4 | | | L.O.D. | | 6.640 | | | 92.930 | | | 0.078 | | | 0.093 | | | 99.741 | | |
| PR3-3-5 | | | L.O.D. | | 6.630 | | | 93.140 | | | 0.073 | | | 0.066 | | | 99.909 | | |
| PR3-3-6 | | | L.O.D. | | 6.620 | | | 93.580 | | | 0.056 | | | L.O.D. | | | 100.256 | | |
| PR3-3-7 | | | L.O.D. | | 6.710 | | | 93.500 | | | 0.072 | | | L.O.D. | | | 100.282 | | |
| PR3-3-8 | | | L.O.D. | | 6.660 | | | 93.560 | | | 0.067 | | | 0.079 | | | 100.366 | | |
| PR3-3-9 | | | L.O.D. | | 6.750 | | | 93.260 | | | 0.080 | | | 0.060 | | | 100.150 | | |
| PR3-3-10 | | | L.O.D. | | 6.660 | | | 93.330 | | | 0.063 | | | 0.088 | | | 100.141 | | |
| PR3-4-1 | | | L.O.D. | | 6.670 | | | 93.120 | | | 0.084 | | | L.O.D. | | | 99.874 | | |
| PR3-4-2 | | | L.O.D. | | 6.620 | | | 93.600 | | | 0.090 | | | L.O.D. | | | 100.310 | | |
| PR3-4-3 | | | L.O.D. | | 6.590 | | | 93.610 | | | 0.090 | | | 0.099 | | | 100.389 | | |
| PR3-4-4 | | | L.O.D. | | 6.620 | | | 93.250 | | | 0.091 | | | L.O.D. | | | 99.961 | | |
| PR3-4-5 | | | L.O.D. | | 6.560 | | | 93.190 | | | 0.096 | | | L.O.D. | | | 99.846 | | |
| PR3-4-6 | | | L.O.D. | | 6.700 | | | 92.990 | | | 0.089 | | | L.O.D. | | | 99.779 | | |
| PR3-4-7 | | | L.O.D. | | 6.710 | | | 93.150 | | | 0.094 | | | L.O.D. | | | 99.954 | | |
| PR3-4-8 | | | L.O.D. | | 6.610 | | | 93.120 | | | 0.090 | | | 0.071 | | | 99.892 | | |
| PR3-4-9 | | | L.O.D. | | 6.630 | | | 92.970 | | | 0.088 | | | 0.101 | | | 99.789 | | |
| PR3-4-10 | | | L.O.D. | | 6.590 | | | 93.330 | | | 0.086 | | | L.O.D. | | | 100.006 | | |
| PR3-5-1 | | | L.O.D. | | 6.670 | | | 93.600 | | | 0.072 | | | 0.088 | | | 100.430 | | |
| PR3-5-2 | | L.O.D. | | | | 6.700 | | | 93.360 | | | 0.063 | | | 0.091 | | | 100.214 | |
| PR3-5-3 | | L.O.D. | | | | 6.650 | | | 93.540 | | | 0.051 | | | 0.082 | | | 100.322 | |
| PR3-5-4 | | L.O.D. | | | | 6.570 | | | 92.810 | | | 0.062 | | | 0.067 | | | 99.508 | |
| PR3-5-5 | | L.O.D. | | | | 6.450 | | | 93.220 | | | 0.071 | | | 0.122 | | | 99.863 | |
| PR3-5-6 | | L.O.D. | | | | 6.430 | | | 93.520 | | | 0.071 | | | 0.079 | | | 100.100 | |
| PR3-5-7 | | L.O.D. | | | | 6.510 | | | 93.060 | | | 0.082 | | | 0.088 | | | 99.740 | |
| PR3-5-8 | | L.O.D. | | | | 6.550 | | | 93.380 | | | 0.064 | | | 0.092 | | | 100.086 | |
| **Sample Label** | | **Te (wt%)** | | | | **Ag (wt%)** | | | **Au (wt%)** | | | **Cu (wt%)** | | | **Hg (wt%)** | | | **Total** | |
| **Limit of Detection (L.O.D)** | | **0.030** | | | | **0.063** | | | **0.079** | | | **0.017** | | | **0.059** | | |  | |
| PR3-5-9 | | L.O.D. | | | | 6.520 | | | 93.530 | | | 0.064 | | | 0.106 | | | 100.220 | |
| PR3-5-10 | | L.O.D. | | | | 6.450 | | | 93.450 | | | 0.069 | | | L.O.D. | | | 99.969 | |
| PR3-6-1 | | L.O.D. | | | | 6.650 | | | 93.330 | | | 0.061 | | | 0.080 | | | 100.121 | |
| PR3-6-2 | | L.O.D. | | | | 6.670 | | | 93.370 | | | 0.064 | | | 0.070 | | | 100.174 | |
| PR3-6-4 | | L.O.D. | | | | 6.600 | | | 93.240 | | | 0.058 | | | 0.076 | | | 99.974 | |
| PR3-6-5 | | L.O.D. | | | | 6.620 | | | 93.100 | | | 0.072 | | | L.O.D. | | | 99.792 | |
| PR3-6-6 | | L.O.D. | | | | 6.580 | | | 92.980 | | | 0.068 | | | 0.081 | | | 99.709 | |
| PR3-6-7 | | L.O.D. | | | | 6.460 | | | 93.280 | | | 0.066 | | | 0.114 | | | 99.920 | |
| PR3-6-8 | | L.O.D. | | | | 6.570 | | | 93.260 | | | 0.074 | | | L.O.D. | | | 99.904 | |
| PR3-6-9 | | L.O.D. | | | | 6.670 | | | 93.390 | | | 0.062 | | | 0.076 | | | 100.198 | |
| PR3-6-10 | | L.O.D. | | | | 6.660 | | | 93.260 | | | 0.074 | | | 0.076 | | | 100.071 | |
| McLaughlin-1 core-1 | | L.O.D. | | | | 28.120 | | | 70.790 | | | L.O.D. | | | 0.771 | | | 99.681 | |
| McLaughlin-1 core-2 | | 0.046 | | | | 30.400 | | | 68.470 | | | L.O.D. | | | 0.298 | | | 99.214 | |
| McLaughlin-1 core-3 | | L.O.D. | | | | 30.180 | | | 68.820 | | | L.O.D. | | | 0.365 | | | 99.365 | |
| McLaughlin-1 core-4 | | 0.038 | | | | 29.850 | | | 68.600 | | | L.O.D. | | | 0.358 | | | 98.846 | |
| McLaughlin-1 core-5 | | L.O.D. | | | | 27.800 | | | 70.610 | | | L.O.D. | | | 0.512 | | | 98.922 | |
| McLaughlin-1 core-6 | | L.O.D. | | | | 27.400 | | | 70.710 | | | L.O.D. | | | 0.570 | | | 98.680 | |
| McLaughlin-1 core-7 | | L.O.D. | | | | 26.780 | | | 70.800 | | | L.O.D. | | | 1.310 | | | 98.890 | |
| McLaughlin-1 core-8 | | L.O.D. | | | | 27.440 | | | 71.510 | | | L.O.D. | | | 0.525 | | | 99.475 | |
| McLaughlin-1 core-9 | | L.O.D. | | | | 26.920 | | | 72.030 | | | L.O.D. | | | 0.441 | | | 99.391 | |
| McLaughlin-1 core-10 | | L.O.D. | | | | 29.560 | | | 68.960 | | | L.O.D. | | | 0.533 | | | 99.053 | |
| McLaughlin-1 rim-1 | | 0.053 | | | | 27.390 | | | 70.980 | | | L.O.D. | | | 0.652 | | | 99.075 | |
| McLaughlin-1 rim-2 | | L.O.D. | | | | 27.650 | | | 71.700 | | | L.O.D. | | | 0.255 | | | 99.605 | |
| McLaughlin-1 rim-3 | | 0.035 | | | | 28.260 | | | 71.040 | | | L.O.D. | | | 0.321 | | | 99.656 | |
| McLaughlin-1 rim-4 | | L.O.D. | | | | 27.510 | | | 71.070 | | | L.O.D. | | | 0.272 | | | 98.852 | |
| **Sample Label** | **Te (wt%)** | | | **Ag (wt%)** | | | **Au (wt%)** | | | **Cu (wt%)** | | | **Hg (wt%)** | | | **Total** | | |
| **Limit of Detection (L.O.D)** | **0.030** | | | **0.063** | | | **0.079** | | | **0.017** | | | **0.059** | | |  | | |
| McLaughlin-1 rim-5 | L.O.D. | | | 28.220 | | | 71.230 | | | L.O.D. | | | 0.180 | | | 99.630 | | |
| McLaughlin-1 rim-6 | 0.037 | | | 28.180 | | | 70.590 | | | L.O.D. | | | 0.373 | | | 99.180 | | |
| McLaughlin-1 rim-7 | L.O.D. | | | 27.580 | | | 71.180 | | | L.O.D. | | | 0.205 | | | 98.965 | | |
| McLaughlin-1 rim-8 | 0.038 | | | 28.710 | | | 70.930 | | | L.O.D. | | | 0.283 | | | 99.961 | | |
| McLaughlin-1 rim-9 | L.O.D. | | | 28.520 | | | 70.850 | | | L.O.D. | | | 0.349 | | | 99.719 | | |
| McLaughlin-1 rim-10 | 0.033 | | | 27.320 | | | 70.900 | | | L.O.D. | | | 0.298 | | | 98.551 | | |
| McLaughlin-2 Gold-rich area-1 | L.O.D. | | | 38.080 | | | 57.580 | | | L.O.D. | | | 3.970 | | | 99.630 | | |
| McLaughlin-2 Gold-rich area-2 | 0.041 | | | 38.450 | | | 60.040 | | | L.O.D. | | | 0.915 | | | 99.446 | | |
| McLaughlin-2 Gold-rich area-3 | L.O.D. | | | 37.070 | | | 61.910 | | | L.O.D. | | | 0.796 | | | 99.776 | | |
| McLaughlin-2 Gold-rich area-4 | 0.039 | | | 37.420 | | | 61.360 | | | L.O.D. | | | 0.920 | | | 99.739 | | |
| McLaughlin-2 Gold-rich area-5 | L.O.D. | | | 29.580 | | | 69.470 | | | L.O.D. | | | 0.382 | | | 99.432 | | |
|  |  | | |  | | |  | | |  | | |  | | |  | | |
| Mode | WDS | | | WDS | | | WDS | | | WDS | | | WDS | | |  | | |
| Signal | Te La | | | Ag La | | | Au La | | | Cu Ka | | | Hg La | | |  | | |
| XTAL | PETJ | | | PETJ | | | LiF | | | LiF | | | LiFL | | |  | | |
| Counting time (s) | 110 | | | 110 | | | 110 | | | 110 | | | 110 | | |  | | |
| Beam Current (nA) | 40 | | | 40 | | | 40 | | | 40 | | | 40 | | |  | | |