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 |   |