Epithermal Gold-Silver

Province:

Potential: **Certainty:**

Critical Elements (Assessment Criteria)	**Identified**	**Not Identified, but likely**	**Unlikely**	**Weighting**
Setting • Convergent plate margin (main arc, inner side of the arcs, arc-related rifts)				
Source (fluid, metal, energy) • Felsic to intermediate volcanic-intrusive complex				
Fluid pathway • volcanic-intrusive complexes generate geothermal systems and associated fluid pathway. Regional zones of propylitic alteration are indicative of convective fluid flow system				
Trap (any of the following) • Calderas and caldera-related structures • Breccia pipes and diatremes • Faults and shear zones				

Signs of mineralising process (any of the following, but if occurrences have been identified the level of certainty increases)
• Wall rock alteration (any of the following):
  • Adularia (low temperature potash feldspathic)
  • Sericitic
  • Argilllic
  • Silicification
  • Acid-sulphate				

• $\delta^{18}O$ haloes • Geochemical anomalies • Known occurrences of epithermal and/or porphyry copper ± gold				
Preservation (any of the following but presence of sinter increases certainty because it is a more reliable criteria for assessing preservation) • Age: Phanerozoic deposits are more likely to be preserved • Presence of silica sinters				