

## Porphyry Cu-Mo-Au

**Province:**

**Potential:**

**Certainty:**

**Index (out of 10):**

Critical Elements (Assessment Criteria)	Identified	Not Identified, but likely	Unlikely	Weighting
Setting <ul style="list-style-type: none"> <li>• Convergent plate margin: island arc and/or continental arc environment</li> </ul>				
Source (fluid, metal, energy) <ul style="list-style-type: none"> <li>• I-type, oxidised calc-alkaline to alkaline intrusives (For Copper, Molybdenum and Gold, and fluid as well as energy)</li> </ul>				
Fluid pathway <ul style="list-style-type: none"> <li>• Structures along and across the arcs important for the emplacement of volcanic-plutonic complexes</li> <li>• Structures associated with stratovolcanoes and volcanic-plutonic complexes important as fluid pathways</li> </ul>				
Trap (any of the following) (predominantly structural) <ul style="list-style-type: none"> <li>• Calderas and caldera-related structures</li> <li>• Breccia pipes and diatremes</li> <li>• Faults and shear zones</li> </ul>				
Signs of mineralising process (any of the following, but if occurrences have been identified the level of certainty increases) <ul style="list-style-type: none"> <li>• Wall rock alteration (any of the following):</li> </ul>				

<ul style="list-style-type: none"> <li>• propylitic</li> <li>• potassic</li> <li>• phyllic</li> <li>• Argillic</li> <li>• Geochemical anomalies</li> <li>• Geophysical: 'bulls-eye' type of magnetic anomaly</li> <li>• Known occurrences porphyry copper ± molybdenum ± gold</li> </ul>				
<p>Preservation (any of the following but presence of sinter increases certainty because it is a more reliable criteria for assessing preservation)</p> <ul style="list-style-type: none"> <li>• Age: Mesozoic to Tertiary dominant although deposits known throughout Phanerozoic. Only a few reported in Proterozoic and Archaean</li> <li>• Presence of epithermal gold mineralisation could be indicative of preserved nature of the porphyry system</li> </ul>				