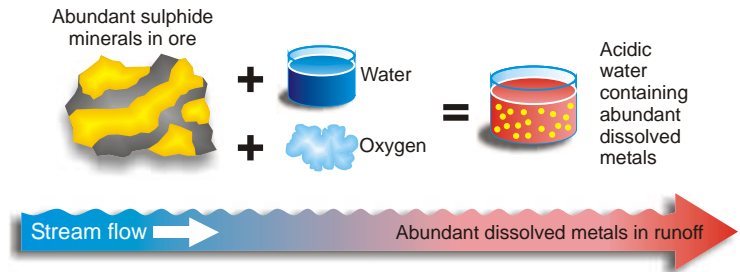


Q. Acid rock drainage?

Many mining operations must deal with the problem of acid rock drainage, which occurs when rock rich in sulphide minerals (commonly pyrite) reacts with water and atmospheric oxygen. Under these conditions, sulphide minerals dissolve, releasing metals and producing acidic waters. Acidic waters can transport high concentrations of metals, which can harm aquatic plants and animals.



A. Not here in Whitehorse Copper Belt!

Acid rock drainage is not a problem in the Whitehorse Copper Belt, because sulphide minerals are sparse in the ore while calcite, which is derived from limestone, is abundant. When calcite dissolves in water, it consumes acid that has been generated by dissolution of sulphide minerals. As a result, waters flowing from the mine wastes do not transport metals.

