

5 cm

COMPARISON OF THE DISSOLUTION OF MINERALS BY WATER AND AN AQUEOUS SOLUTION OF HUMIC SUBSTANCES

Mineral	Composition	Element determined	μg/ml in solution after 24 hour extraction by:	
			H ₂ O/atmos CO ₂	500 μg/ml THS-1
Galena	PbS	Pb	1.1	50
Bornite	Cu ₅ FeS ₄	Cu	2.0	25
Pyrite	FeS ₂	Fe	0.9	4.7
Loellinigte	FeAs ₂	Fe	1.1	100
Gold	Au	Au	10*	190*
Hematite	Fe ₂ O ₃	Fe	1.1	11.6
Pyrolusite	MnO ₂	Mn	3.3	30
Azurite	Cu ₃ (OH) ₂ (CO ₃) ₂	Cu	4.2	440
Anglesite	PbSO ₄	Pb	3.0	1110
Calcite	CaCO ₃	Ca	13.0	350

* ng/ml gold in solution after 50 days