

APPENDIX 8

Representative chemical analyses (wt.%) of sulphides from the GJSM and BBM and their atomic proportions of sulphur and metals

Sample	S25	S25	S25	S25	S48	S48	S48	S49	S49
Mode of occurrence	chlorite groundmass	chlorite groundmass	chlorite groundmass	chlorite groundmass	edge of chromite grain	edge of chromite grain	edge of chromite grain	edge of chromite grain	chlorite-magnesite groundmass
Phase	Carrolite	Godlevskite	Millerite	Sugakite	Millerite	Polydymite	Violarite	Godlevskite	Polydymite
S	37.8	32.5	35.1	38.9	34.3	41.5	38.9	32.09	36.14
Fe	5.3	30.3	1.6	0.7	0.6	4.2	15.4	4.07	14.57
Ni	34.1	33.6	62.5	49.4	62.4	52.1	40.4	60.49	43.22
Cu	17.8	0.0	0.0	7.8	0.0	0.0	0.0	0.04	0.00
Co	2.1	1.5	0.1	0.1	0.4	0.2	0.9	0.19	0.17
Total	97.6	98.1	99.4	97.4	98.5	98.6	96.5	99.704	94.108
Atomic %									
S	54.1	47.0	50.0	55.1	49.4	57.0	54.9	46.3	53.0
Fe	4.3	25.2	1.3	0.6	0.5	3.3	12.4	3.4	12.3
Ni	26.7	26.5	48.5	38.2	49.1	39.0	31.2	47.7	34.6
Cu	12.8	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
Co	1.6	1.1	0.0	0.1	0.3	0.1	0.7	0.2	0.1
metal/sulphur ratio	0.85	1.13	1.00	0.81	1.03	0.75	0.82	1.16	0.89