DEPARTMENT OF INFRASTRUCTURE ENERGY AND RESOURCES

Mineral Resources Tasmania

Client: D. Green
Sample Source: Chester Spirt Project
Analysis: Approximate Mineralogy
Method: X-Ray Diffraction

Results (approx wt %)

Sample	*60%-80%*	*40%-60%*	*25%-40%*	*15%-25%*	*10%-15%*	*5%-10%*	*<5%*
5901 CP3, 13m			Quartz, Mica		Plagioclase, Pyrite		
5906 CP3, 145m			Quartz	Pyrite, Paragonite	Pyrophyllite	Mica, Dickite	?
5907 CP3, 155m		Quartz		Pyrite, Paragonite		Dickite	Pyrophyllite, [4]
5909 CP3, 195m		Quartz, Paragonite				Pyrite	Dickite, [4]
5911 CP3, 240m		Quartz		Paragonite		Pyrite, Mica	Dickite, Pyrophyllite
5912 CP3, 250m		Quartz, Mica				Pyrite	[1,3]
5916 CP3, 460m		Quartz		Mica, Ankerite			?Kaolinite, Pyrite, Chlorite
5936 CP4, 225m		Dickite	Pyrophyllite			Quartz	Pyrite, [1]
5937 CP4, 245m		Quartz		Natroalunite		Dickite, Pyrite	Mica, Pyrophyllite, [1,2]
5919 BPD68, 13m		Quartz	Mica	Pyrite, Paragonite			[1]
5920 BPD68, 72m	Quartz		Mica				Pyrite, [1], Chlorite
5921 BPD68, 132m		Quartz	Mica		Chlorite	Ankerite, Pyrite	[1]
5922 BPD68, 181m	Quartz			Mica			Pyrite, Chlorite, Dickite, [1]
5923 BPD68, 212m		Quartz		Paragonite	Pyrite	Mica	[3]
5924 BPD68, 238m	Quartz		Paragonite			Pyrite	Mica, Dickite, [3,4]
25 BPD68, 252m		Quartz, Paragonite				Pyrophyllite	Dickite, Pyrite, [4]
26 BPD68, 262m		Quartz	Paragonite				Pyrite, Dickite
27 BPD68, 272m	Quartz		Paragonite				Pyrite, Dickite, Pyrophyllite, Mica, [4]
28 BPD68, 282m		Quartz		Pyrophyllite, Dickite		Mica	[1]
29 BPD68, 302m		Quartz, Mica				Chlorite	Pyrite, [1]

5930	BPD68, 342m	Quartz	Mica	Plagioclase	Pyrite, Ankerite	Chlorite
31	BPD68, 402m	Quartz	Mica		Pyrite	[1]
32	BPD68, 462m	Quartz	Mica	Pyrite		[1,3]

[1] - small peak at 3.24Å; Rutile, Clinopyroxene, K-Feldspar or Sphene?
[2] - possibly Metasideronatrite
[3] - very small peak at 7.16Å; Kaolinite, Dickite or Chlorite?
[4] - very small peak at 7.6Å; Gypsum?

Peak overlap may interfere with identifications (e.g. Paragonite may mask the mineral represented by the the peak at 3.24Å)
Minerals present in trace amounts, or amorphous minerals, may not be detected

Analyst: R.N. Woolley
Date: 7 August 2001