

Electron Microprobe Data

Rruff ID: **R060175** Mineral: **Fiz'elyite**
 Locality: Van Silver mine, Vancouver, British Columbia, Canada

Weight Percents

Analysis	#4	#6	#7	#8	#12	#13	#16	#18	#19	#20	Average	StDev
Ag	8.81	9.09	9.09	9.11	8.67	8.89	9.18	8.83	8.96	8.74	8.94	0.18
Pb	37.38	37.19	37.37	37.43	37.84	38.34	36.75	37.03	37.14	37.34	37.38	0.44
Sb	32.24	32.19	32.30	32.25	32.25	32.17	32.46	32.53	32.36	32.31	32.31	0.12
S	19.58	19.67	19.57	19.69	19.50	19.74	19.73	19.77	19.70	19.68	19.66	0.09
Totals	98.01	98.13	98.32	98.49	98.26	99.13	98.12	98.16	98.16	98.08	98.29	0.33

Cation numbers normalized to 48 S

											ACN	StDev	CNISF*
Ag	6.42	6.60	6.63	6.60	6.34	6.43	6.64	6.37	6.49	6.33	6.48	0.12	6.14
Sb	20.82	20.69	20.87	20.70	20.91	20.60	20.80	20.80	20.76	20.75	20.77	0.09	20.62
Pb	14.19	14.05	14.19	14.12	14.41	14.43	13.84	13.91	14.00	14.09	14.12	0.19	14.00
Totals	41.43	41.33	41.68	41.42	41.66	41.46	41.28	41.09	41.25	41.18	41.38	0.19	40.76

Ideal Chemistry: $Pb_{14}Ag_5Sb_{21}S_{48}$
 Calculated Chemistry: $Pb_{14}Ag_{6.14}Sb_{20.62}S_{48}$

Instrument: Cameca SX50
 Sample Voltage: 15 kV
 Acceleration Current: 20 nA
 Beam Size: Spot
 Date of Analysis: 11/24/04

Microprobe Calibration Data							Standards
Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	
PET	Si	Ka	20	10	250	-250	chalcopy
PET	Sb	La	20	10	250	-300	sb_2
PET	Ag	La	20	10	300	-400	ag
PET	Pb	Ma	20	10	300	-600	galena

ACN: Average Number of Cations
 StDev: Standard Deviation
 CNISF=Cation Numbers in Structural Formulae
 *=charge balanced