12

019640

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

To R. L. Coleman From J. K. Carrington

Subject Grum Bulk Sample Date July 26, 1977

The Grum bulk sample is composed as follows:

Sample Designation	No. of Drums	Estimated Tonnage
A-2	18	9
B-5	57	29
C-4	57	29
D-4	18	9
FV-4	18	9
FQ-4*	18	9
G-4	57	29
H-4	57	29
J76-1	75	36
K68-1**	40	20
K76-1**	35	17
K80-1**	35	17
	485	242

*FQ-4 is the same material as FH-3, i.e. hard quartz sulphides from site F. All further references should be to "FQ", the Q fitting our geological nomenclature.

**Three different K samples were taken as per Dave Carson's suggestion. All three comprise the total K component.

All/

To R. L. Coleman From J. K. Carrington

Subject Grum Bulk Sample Date July 26, 1977

All samples were drummed and marked with the correct sample designation. Approximately 10% - 15% of the drums have varying degrees of rust inside them as they have been on site for two years. The drums will be shipped starting July 28th and all will be off the property by August 12th. All should be received in Lakefield by August 31st. Individual shipping details will be forwarded to Lakefield when they are available.

The basis for the amounts of each sample is as follows: each drum is estimated to hold 1,000 lbs., although this is likely conservative by at least 10%. Based on D. Carson's July 4th memo, the main composite sample consists of:

A-2	5%	18 barrels	9 tons
B-5	10%	35 "	18 "
C-4	10%	35 "	18 "
D-4	5%	18 "	9 "
FV-4	5%	18 "	9 "
FQ-4	5%	18 "	9 "
G-4	10%	35 "	18 "
H-4	10%	35 "	18 "
J76-1	15%	53 "	25 "
K68-1) K76-1) K80-1)	25%	89 "	44 "
		354 "	177 "

The remaining 131 barrels, comprising 22 each of samples B-5, C-4, G-4, H-4, J76-1, and 7 each of K68-1, K76-1 and K80-1 are extra amounts for those samples whose portion is ≥10% of the composite bulk sample.

Some FV material got into the FQ sample (approximately 10% - 15%) and some FQ into the FV sample (approximately 20%). This was unavoidable because/

To R. L. Coleman From J. K. Carrington

Subject Grum Bulk Sample Date July 26, 1977

because of the geological nature. Both FV and FQ are intermixed in irregular bands and lenses and getting large clean samples of each type is very difficult. Every effort was made to keep the two types separate, but mixing did occur.

Sample J76-1 has a high fine-grained pyrite content, but is likely higher grade than recommended. This site, like much of the massive sulphide material, is highly fractured and blocky and makes minor amounts of water. Some oxidized material (vugs and secondary mineralization) was seen in the muck but was not in either the drilled or freshly blasted faces. The sample was centred on a diamond drill hole whose core appeared to have the desired characteristics. A small sample of -1/4" crushed material should be sent to Dave Carson for verification after it has been prepared at Lakefield. (This site, even though higher grade than desired, was selected over one other where previous sampling indicated a grade <4% Pb + Zn).

Three K sites were selected to provide wide coverage of this important component. Oxidized material was noted in the muck from K68-1 but was not seen in either the drilled or freshly blasted faces. This sample seemed to be somewhat finer grained than desired but should meet the other requirements: high grade, relatively low pyrite content, away from stratigraphic top of orebody and unoxidized (by and large). K76-1 met all requirements but some pieces of fine-grained high pyrite content (low grade) invariably were mixed in, as this occurred as small bands in the sample material. As much as possible this material was culled out. K80-1 appeared to be satisfactory. As with the J sample, send small amounts of -1/4" crushed material from each K sample to Dave Carson for verification.

JKC:LFR

J. K. Carrington

cc: K. Konigsmann, Mattagami Lake Mines
A. G. Scobie, Lakefield Research Labs.
D. Carson
J. Paxton

GRUM BULK SAMPLE - JULY 1977

SAMPLE	LOCATION	BARRELS	TONS
A-2	MAIN DECLINE	18	9
B-5	72W xC	57	29
C-4	6N/E off 72xC	57	29
D-4	84W x-C	18 *	9
FV-4	6N/E	18 *	9
FQ-4	6N/E	18 *	9
G-4	80W xC	57 *	29
H-4	6NW off 72xC	57 *	29
J-76-1	76N-3N/W	75 *	36
K-68-1	2N/E - 68W	40 *	20
K-76-1	3N/W - 76W	35	17
K-80-1	3N/W - 80W	35	17
	TOTALS	485	242

10-11 barrels / 5 yd³ Scoop bucket.

SAMPLE	LOCATION	%	TONS	BARRELS	REMARKS
A-2	MAIN DECLINE	5	9	18	
B-5	72 W XC	10 + 6 = 16	18 + 11 = 29	35 + 22 = 57	
C-4	6N/E off 72 XC	10 + 6 = 16	18 + 11 = 29	35 + 22 = 57	
D-4	84 XC	5	9	18	
FV-4	6N/E	5	9	18	
FQ-4	6N/E	5	9	18	
G-4	80XC	10 + 6 = 16	18 + 11 = 29	35 + 22 = 57	
H-4	6N/W of 72XC	10 + 6 = 16	18 + 11 = 29	35 + 22 = 57	
J-76-1	76N - 3N/W STUB	15 + 6 = 21	25 + 11 = 36	53 + 22 = 75	
K-68-1	2N/E 68W	10 + 2 = 12	16 + ~~4~~ = 20	~~33~~ + 7 = ~~40~~	
K-76-1	76N - 3N/W STUB	7½ + 2 = 9½	14 + 3½ = 17½	28 + 7 = ~~35~~	
K-80-1	80 XC	7½ + 2 = 9½ SUB 1	14 + 3½ = 17½ SUB	~~28~~ + 7 = ~~35~~ SUB	
		25 + 6 = 31	~~44~~ + 11 = 55	89 + 21 = 110	
		100 + 36 = 136	177 + 66 = 243	35~~4~~ + 13~~2~~ = 485	

MAIN COMPOSITE SAMPLE

A-2	5%	18 barrels	= 9 Ts
B-5	~~10~~ %	35 "	= 18
C-4	10%	35 "	= 18
D-4	5%	18 "	= 9
FV-4	5%	18 "	= 9
FQ-4	5%	18 "	= 9
G-4	10%	35 "	= 18
H-4	10%	35 "	= 18
J-76-1	15%	53 "	= 25
K-68-1, K-76-1, K-80-1	25%	89 "	= ~~44~~
		353	177

K-68-1 6.1, 12.0 // 1.5m
centred U-18 7.5, 14.4 // 3.0 m

K-76-1 7.0 10.4 // 4.5

(U63/64) centred on 2 holes U63, 64 (1.5 - 6.0 m avg)

K80-1

J76-1 8.5, 14.9 // 1.5m

+32° (U63/U64) 0-1.5m)
+64°