

September 21, 1970.

Mr. J. W. Grainge, P. Eng.,
Regional Engineer, Northern Region,
Department of National Health & Welfare,
Public Health Engineering Division,
257 Federal Public Building,
EDMONTON 2, Alberta.

Dear Mr. Grainge:

Enclosed are copies of two roaster stack filtration tests which were carried out on July 24th and August 7th, 1970 as requested by your office on September 17th. Copies of these tests have also been sent to Mr. M. L. Brown, Mining Inspector.

Yours very truly,

GIANT YELLOWKNIFE MINES LIMITED.

A. K. Campbell,
General Superintendent.

AKC*mo's

Encls.

September 21, 1970.

Mr. M. L. Brown,
Mining Inspector,
Department of Indian Affairs &
Northern Development,
Box 608,
YELLOWKNIFE, N. W. T.

Dear Mr. Brown:

Enclosed are two copies each of roaster stack tests
carried out on July 24th and August 7th, 1970. A copy of each test has also
been sent to Mr. J. W. Grainge.

Yours very truly,
GIANT YELLOWKNIFE MINES LIMITED.

A. E. Campbell,
General Superintendent.

AKC*mo's

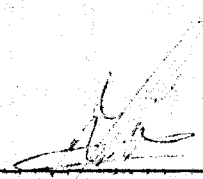
Encls.

c.c. H. E. Pawson

To D. J. Emery, H. E. Pawson.
From M. E. Lane.
Subject ROASTER STACK FILTRATION TEST.

Date August 11, 1970.
Ref.

Sampling Date:	August 7, 1970.
Gas Temperature:	206°F.
Gas Velocity:	11.67 ft./sec.
Total Gas Volume:	43,692 c.f.m.
Dust Loss:	771.86 lbs./24 hours.
Dust Analysis:	59.50% Arsenic.
Arsenic to Atmosphere:	459.26 lbs./24 hours.
Arsenic in Roaster Feed:	35,800.00 lbs./24 hours.
Arsenic in Calcine & Cottrell Dust:	3,900.00 lbs./24 hours.
Arsenic to Baghouse Collector:	31,900.00 lbs./24 hours.
Baghouse Collection Efficiency:	98.56%.


M. E. Lane,
Mill Engineer.


MEL*mo's

Delivered

To D. J. Emery, H. E. Pawson.
From M. E. Lane.
Subject ROASTER STACK FILTRATION TEST.

Date July 30, 1970.
Ref.

Sampling Date:	July 24, 1970.
Gas Temperature:	196°F.
Gas Velocity:	11.66 ft./sec.
Total Gas Volume:	43,655 c.f.m.
Dust Loss:	1,057.715 lbs./day.
Dust Analysis:	54.50% As.
Arsenic to Atmosphere:	576.46 lbs./day.
Arsenic in Roaster Feed:	34,640.00 lbs./day.
Arsenic in Calcine & Cottrell Dust:	<u>4,780.00 lbs./day.</u>
Arsenic to Baghouse Collector:	29,860.00 lbs./day.
Baghouse Collection Efficiency:	98.07%


M. E. Lane,
Mill Engineer.

MEL*mo's

