

January 8, 1973.

Mr. M. L. Brown,
Mining Inspector,
P.O. Box 1500,
YELLOWKNIFE, N.W.T.

Dear Mr. Brown:

Re: Stack Filtration Tests - 1972


I am enclosing copies in duplicate of four Stack Filtration Tests completed during 1972. Average overall collection efficiency of the four tests is 96.47%, which is an appreciable improvement over the efficiency obtained in 1971.

You will recall that in 1971 we were having problems with the Cottrell Plant and the Baghouse due to high antimony in the ore. Since then antimony levels have not been too high and this has been reflected by improvements in the Cottrell operation.

During 1972 maintenance continued on the Baghouse with four of the eight compartments completely overhauled. Only minimum work was required in the Cottrell Plant however some reconditioning is anticipated in 1973.

Yours very truly,

GIANT YELLOWKNIFE MINES LIMITED.


D. J. Emery,
Mine Manager.

DJE*mo's

Encls.

c.c. Mr. S. Homulos
Mr. J. W. Grange
Mr. J. M. Mortimer

Blind Xerox Copies: A. K. C.
H. E. P.

To D.J. Emery; A.K. Campbell; H.E. Fawson

Date September 8, 1972

From M.E. Lane

Ref.

Subject Roaster Stack Filtration Test

Date of Test: August 29th, 1972

Gas Velocity: 14.03 ft./sec.

Gas Temperature: 173° F.

Gas Volume: 52,544 c.f.m.

Arsenic in Roaster Feed: 23460 lbs.

Arsenic in Roaster Calcine: 2760 lbs.

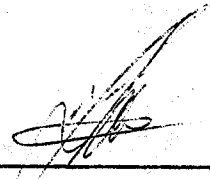
Arsenic in Hot Cottrell Dust: 800 lbs.

Arsenic to Baghouse: 19071 lbs.

Arsenic to Atmosphere: 829 lbs.

Baghouse Efficiency: 95.83%

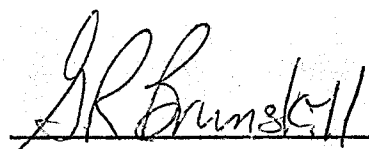
Total Collection Efficiency 96.00%


M.E. Lane
Mill Engineer

To D.J. Emery; A.K. Campbell; H.E. Pawson; M.E. Lane Date August 8, 1972
File
From G. R. Brunskill Ref.
Subject Roaster Stack Filtration Test

Sampling Date: August 2, 1972

Gas Temperature	181.5°F
Gas Velocity	13.6 ft/sec.
Gas Volume	51,068 c.f.m.
Weight of Arsenic lost to Atmosphere	825.1 lb./day
Arsenic in Roaster Feed	27,400 lb.
Arsenic in Roaster Calcine	3,160 lb.
Arsenic in Cottrell Dust	780 lb.
Arsenic to Baghouse	23,460 lb.
Baghouse Collection Efficiency	96.5%
Total Collection Efficiency	96.6%



G.R. Brunskill
Jr. Metallurgist

To D.J. Emery; A.K. Campbell; H.E. Pawson; Date July 20, 1972
From G.R. Brunskill M.E. Lane; File Ref. _____
Subject ROASTER STACK FILTRATION TEST

Sampling Date: July 12, 1972

Gas Temperature	194°F
Gas Velocity	14.59 ft/sec.
Gas Volume	54,625 c.f.m.
Weight of Arsenic lost to Atmosphere	1065 lb/day
Arsenic in Roaster Feed	33,040 lbs.
Arsenic in Roaster Calcine	3,600 lbs.
Arsenic in Cottrell Dust	660 lbs.
Arsenic to Baghouse	28,780 lbs.
Baghouse Collection Efficiency	96.3%
Total Collection Efficiency	96.4%

G.R. Brunskill

G.R. Brunskill
Jr. Metallurgist.