

February 26, 1974.

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

Dear Mr. Brown:

Enclosed are copies of five Stack Filtration Tests completed in 1973. Average overall collection efficiency of the five tests is 98.12% an improvement of 1.7 per cent over the efficiency obtained in 1972.

Yours very truly,

GIANT YELLOWKNIFE MINES LIMITED.

122

D. J. Emery,
Mine Manager.

DJE*mo's

Encls.

c.c. C. A. Lewis
J. M. Mortimer

To D.M.; A.M.C.; H.E.P.;
From A. Cheng
Subject Roaster Stack Filtration Test

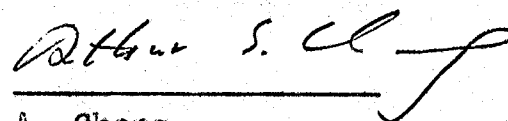
Date September 25, 1973
Ref.

Date of Test: September 20, 1973

Gas Velocity: 18.48 ft./sec.
Gas Temperature: 196°F
Gas Volume: 69159 c.f.m.

Arsenic in Roaster feed:	29300 lbs.
Arsenic in Roaster Calcine:	3480 lbs.
Arsenic in Cottrell Dust:	900 lbs.
Arsenic entering Baghouse:	24920 lbs.
Arsenic to Atmosphere:	852.1 lbs.

Baghouse Efficiency: 96.58%
Total Collection Efficiency 96.7%



A. Cheng
Mill Engineer

To D.J.E.; A.R.C.; H.E.P.;

Date August 7, 1973

From H.G. Lane

Ref.

Subject Roaster Stack Filtration Test

Date of Test: July 27, 1973

Gas Velocity: 17.17 ft./sec.

Gas Temperature: 203°F

Gas Volume: 64,284 c.f.m.

Arsenic in Roaster Feed: 27780 lbs.

Arsenic in Roaster Calcine: 2340 lbs.

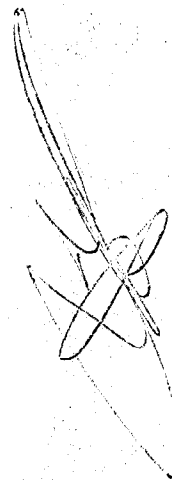
Arsenic in Cottrell Dust: 580 lbs.

Arsenic entering Baghouse: 24360 lbs.

Arsenic to Atmosphere: 374 lbs.

Baghouse Efficiency: 98.46%

Total Collection Efficiency: 98.50%



To D.J.E.; A.K.C.; H.E.P.
From M.E. Lane
Subject Roaster Stack Filtration Test

Date July 16, 1973


Ref.

Date of Test: July 11, 1973

Gas Velocity: 17.33 ft/sec
Gas Temperature: 205°F
Gas Volume: 64,865 c.f.m.

Arsenic in Roaster Feed: 30000 lbs
Arsenic in Roaster Calcine: 3014 lbs
Arsenic in Cottrell Dust: 700 lbs
Arsenic entering Baghouse: 26286 lbs
Arsenic to Atmosphere: 416 lbs

Baghouse Efficiency : 98.42%
Total Collection Efficiency: 98.46%



M.E. Lane
Mill Engineer

To DJE; AEG; HER;

Date July 16, 1973

From M.E. Lane

Ref.

Subject Roaster Stack Filtration Test

Date of Test: June 14, 1973

Gas Velocity: 17.01 ft./sec.

Gas Temperature: 203°F

Gas Volume: 63,670 c.f.m.

Arsenic in Roaster Feed: 28160 lbs.

Arsenic in Roaster Calcine: 2980 lbs.


Arsenic in Cottrell Dust: 1200 lbs.

Arsenic entering Baghouse: 23980 lbs.

Arsenic to Atmosphere: 369 lbs.

Baghouse Efficiency: 98.46%

Total Collection Efficiency: 98.53%



M.E. Lane
Mill Engineer

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

Date June 6, 1973

From M.E. Lane

Ref.

Subject Roaster Stack Filtration Test

Date of Test: June 1st, 1973

Gas Velocity: 15.98 ft./sec.

Gas Temperature: 204°F

Gas Volume: 59,812 c.f.m.

Arsenic in Roaster Feed: 28180 lbs.

Arsenic in Roaster Calcine: 2700 lbs.


Arsenic in Cottrell Dust: 620 lbs.

Arsenic to Baghouse: 24860 lbs.

Arsenic to Atmosphere: 407 lbs.

Baghouse Efficiency: 98.36%

Total Collection Efficiency: 98.40%


M.E. Lane
Mill Engineer

MEMORANDUM

To DJE; A.K.C.; H.E.P.;
From A. Cheng
Subject Roaster Stack Filtration Test

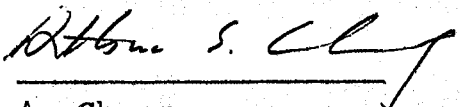
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Baghouse Efficiency: 96.58%
Total Collection Efficiency 96.7%


A. Cheng
Mill Engineer

To D.J.E.; A.K.G.; H.E.P.;

Date AUGUST 7, 1973

From A.S. Lane

Ref. _____

Subject Roaster Stack Filtration Test

Date of Test: July 27, 1973

Gas Velocity: 17.17 ft./sec.

Gas Temperature: 203°F

Gas Volume: 64,244 c.f.m.

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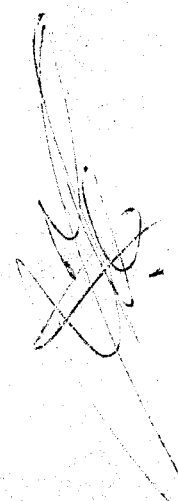
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Total Collection Efficiency: 98.50%



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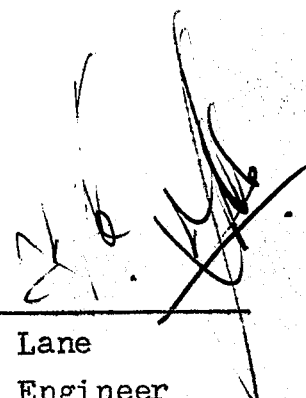
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M.E. Lane
Mill Engineer

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M.E. Lane
Mill Engineer