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November 20, 1990

Yellowknife Division

Pollution Control Division
Department of Renewable Resources
GOVERNMENT OF THE N.W.T.
P.O. Box 1320
Yellowknife, N.W.T.
X1A 2L9

ATTENTION: Mr. L.C. James, Air Quality Engineer

Dear Sir:

Re: Air Quality Monitoring, September and October 1990

Please find enclosed a copy of the report by Western Research on the ambient air monitoring program conducted during September and October.

I have not reviewed the document in detail, but it appears that SO₂ concentrations fall largely in the range 0.07-0.17 ppm when correlated with wind speed and direction, though there were several occasions when the maximum desirable level of 0.17 ppm averaged over a one-hour period was exceeded.

As yet, I have not received the results of static monitoring for October.

Yours truly

GIANT YELLOWKNIFE MINES LIMITED

A handwritten signature in black ink, appearing to read "Kent Morton", is written over the company name.

Kent Morton
Project Supervisor

/mam

cc ~~G. Halverson~~
M. Gross

1985 Yellowknife Division Environmental Summary Report
Section 6.1

Prior to 1975, refer to the following summary reproduced from the 1977 Canadian Public Health Association Task Force on Arsenic's Final Report. It is a summary of Giants Stack Emissions to that time.

Table 2.0

Year	Arsenic Emissions (lbs/day)	No. of Data Submissions	Dust Recovery Efficiency	References
1974	485	5	98.1	a
1973	890	5	95.1	a
1972	875	4	96.5	a
1971	1930	8	93.1	a
1970	485	3	98.3	a
1969	660*	3	97.7*	a
1968	500*	2	98.8*	a
1967	285*	4	99.0*	a
1966	535*	3	98.3*	a
1965	-	-	-	-
1964	690*	4	98.2*	a
1963	(330)	-	-	c
1962	(330)	-	-	c
1961	(330)	-	-	c
1960	165	9	99.4	b
1959	115	7	99.6	b
1958	(3,300)	-	-	c
1957	6,500	10	61.6	b
1956	6,000	11	54.6	b
1955	6,400	4	66.5	b
1954	12,000	-	41.8	b
1953	-	-	-	-
1952	-	-	-	-
1951	(16,000)	-	-	c
1950	(16,000)	-	-	c
1949	(16,000)	-	-	c

Source: Hazra, A.K. and Prokopuk, R.A. A Report on Air Quality in Yellowknife, N.W.T., Air Pollution Control Section, Environmental Protection Service, Environment Canada. February 1977.

* Corrected from previous data.

() Estimated

References: a. Company emission reports.

b. Company emission data as given to Health and Welfare Canada.

c. Estimated values from company production data.