

DEPARTMENT OF NATIONAL HEALTH AND WELFARE

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INTRADEPARTMENTAL CORRESPONDENCE

To:

Dr. K.C. CHARRON

File No. C 455-10-13

Date: ~~Jan~~ Dec. 27, 1949

Subject:

Arsenic at Yellowknife—Analysis of Samples

On December 19, I reported on the analysis of one sample of each of the following: (1) Giant Yellowknife tap water; (2) Townsite tap water; (3) Water from Baker Creek.

On December 22, the result of analysis of one sample of water from Kam Lake was reported to N.W.T. Council and this result was confirmed in my memorandum of December 23, to you.

P.A. /
Supplementary to the above are the following:

- (1) Melted snow submitted by Mr. K.J. Christie on December 15 and taken 1.6 miles north of Giant Yellowknife Mine—an amount corresponding to 0.140 mgm. of arsenic per cubic foot of snow.
- (2) Ditto excepting taken 1.0 mile north of Giant Yellowknife Mine—0.300 mgm. of arsenic per cubic foot of snow.
- (3) Market Garden cabbage, analysed according to the A.O.A.C. sampling procedure—0.674 parts per million.
- (4) Market Garden celery similarly analysed—2.59 parts per million.

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- ✓ (5) 35 John Street tap water — 0.00066 mgm. of arsenic per litre.

Market Garden celery contains two and one half times the safe amount of arsenic according to the sample analysed. On this basis it is not fit for human consumption.

K.K. Kay

K.K. Kay,
Chief,
Industrial Health Laboratory