

## Occupational Health Laboratory

200 Kent Street,  
Ottawa, Ontario.

March 24th, 1954.

Mr. S. Homulos,  
Mining Inspector,  
Yellowknife, N.W.T.

Dear Steve:

Your telegram asking for results of the analyses of the electrostatic precipitator samples surprised us, as the analyses had been completed in January. Apparently each person concerned thought that one of the others had sent the data to you. So sorry!

Here are the results:

<u>Sample No.</u>	<u>Location</u>	<u>Milligrams arsenic (as As) per cubic meter of air</u>
1	Allis Chalmers Roaster	0.0068
2	Dorrco Roaster	0.019
3	Cottrell Plant	0.0018

The threshold limit value has been set at 0.5 milligram per cubic meter. This is a concentration to which, it is believed, workmen may be exposed for an eight-hour day, day after day, without injury to health. As the highest concentration found (No. 2 at the Dorrco Roaster) was only 1/25 of the threshold, we may say that the results herein reported do not reveal any hazard to health due to the breathing of arsenic dust at the locations where the samples were taken. However, as a single sample at any particular location does not have much statistical value, it would be desirable to take some more--say another two or three at each place. If concentrations may vary from time to time during the day, samples should be so spaced as to reveal such variations. This, of course, may require the taking



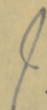
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of numerous samples at any one location. (Hope you have lots of time.)

I am leaving on Monday for Beaverlodge and will not be back until May 3rd, so if you have any questions or need more sampling tubes you will get a quicker reply by addressing your letter to Dr. Kay.

See you in July.

Sincerely,

  
J. P. Windish.

JPW/imw