

Minutes of Meeting March 8, 1979 at Giant  
With Environment Canada, E.P.S., Water Board,  
Government Northwest Territories

Present:

Wayne Bryant	E.P.S., Yellowknife
Lee Harding	E.P.S., Yellowknife
Asit K. Hazra	E.P.S., Edmonton
Jim Scott	E.P.S., Ottawa
Bob Hale	Water Resources, DIAND
Dan Billing	Gov't N.W.T.
L.J. Connell	Giant
K.S. Morton	Giant
L.S. Price	Giant, Falconbridge
W.A. Moore	Giant

Wayne Bryant acted as Chairman.

Item 1. Effect of Giant on the Aquatic Ecosystem in the N.W.T.

Any base line readings? Yes.

Page 44 - levels of As in sediments.

Company pointed out that on pg. 2 re tailings disposal - permission was granted by permits:

1947-1949 - YK Bay

1950 - Bow Lake

1963-1970 - Decant to YK Bay through 3D

1970 - Decant to Baker Creek

D. Billing disputed use of 'lethal' in conclusion #6. Could refer to people.

The Company provided each with a copy of comments on the report by Giant staff. They will reply to these.

Lynn disputed assaying for 'total' arsenic. Part of the assay results could be misleading.

E.P.S. will consider Giant's comments and will report back.

Item 2 & 3 D.P.A.T. Project & Gold Processors Working Group

The sludge was not collected and attempts not made to 'fix' this or convert them to an insoluble project. In addition, the operating costs were prohibitive.

The Company provided each present with a copy of "Environmental Control Program at Giant Yellowknife Gold Mill".

They will study the report and reply to it.

Scott referred to Krofchek's efforts in fixing the arsenic sludge. Tests done and leach studies completed. Information on this work will be sent to everyone. Leach tests will be continued.

Alkaline Chlorination - Scott

Doing test work at Burlington to destroy cyanide in pulp.  
Also looking at converting the CN to thiocyanide.  
Dome hold the cyanide solution in a separate pond - can reduce levels to 0.1 ppm.  
Mentioned HSA reactors. Have not received Pamour report yet.  
Lynn mentioned pilot plant test being done by HSA in April.  
Scott says that Environment Canada believes that a good method must be available before regulations are set. Costs are important but the technology must be there first.  
The Company said that if HSA scheme would remove 75% of the CN, they would instal it, and still work on removing the remaining 25%.

Item 4. Spill Contingency Plan

Larry submitted a Table of Contents for a Contingency Plan.  
Billing mentioned the need for prompt readings on volumes and assays.  
Rest of Table of Contents seemed O.K.

Item 5. Arsenic Emission Regulations

Talking about 17 - 20 mg/m<sup>3</sup>, but no definite news when the Regulations will be ready (May/79).  
Discussed Giant's performance, instruments, procedures.  
Draft of a standard for stack testing is being prepared.

Item 6. Environmental Monitoring Data 1978

Mentioned co-operation between E.P.S. and Giant.

Item 7. Environmental Implications of Marketing Arsenic Trioxide

They will be willing to assist us by providing information on regulations re storage and transportation.  
Lynn explained the storage, loading, shipping facilities studied, and the regulatory bodies contacted in U.S.A., Ottawa, Edmonton, N.W.T.  
We were given a copy of a letter re As<sub>2</sub>O<sub>3</sub> storage & regulations from Ottawa.

Item 6. They are satisfied with our stack testing procedure and results.  
Re Snow Survey Results.

Considerable decrease in snow sample results in As levels. Could be some co-operation in generating data.

Re Dew Point - operating conditions are final determining factor. Quebec Hydro has developed a dew point instrument. Should check this out.

Ambient Air - have both total dust samples and high volume samples. No change in total particulate matter, but have noted a reduction in As content. Suggested that data be made available to Giant.

Questions - Can they get the results of all our stack tests in '78?

Adjourned 12:20 p.m.

W. A. Moore

WAM:jc

c.c. D.J. Emery  
L.S. Price  
K.S. Morton  
L.J. Connell