

AN ORDER OF THE CLEAN ENVIRONMENT COMMISSION

UNDER THE CLEAN ENVIRONMENT ACT

RE: THE CLEAN ENVIRONMENT COMMISSION and DUMBARTON MINES LIMITED, Applicant,

WHEREAS pursuant to the provisions of The Clean Environment Act, Consolidated Canadian Faraday, Ltd., filed a proposal, on behalf of Dumbarton Mines Limited, with the Department of Mines, Resources and Environmental Management in connection with the operation of an open pit mine located on Section 27-17-15 EPM in the Province of Manitoba;

AND WHEREAS in the absence of limits being prescribed by a Regulation under the said Act, the said proposal was referred to the Clean Environment Commission for the prescribing of limits;

AND WHEREAS no representation was made to the said Commission by any person who is or is likely to be affected by an Order of the Commission prescribing limits in connection with the said operation;

AND WHEREAS the said Commission considered the said proposal on the 8th day of April, 1975, and the 19th day of August, 1975;

IT IS HEREBY ORDERED THAT

1. The Applicant shall ensure that waste material produced in connection with the said operation is disposed of in accordance with the following:
 - (a) earth overburden is used only for the construction of dykes and other engineering works on the site of the said operation or for earth cover in the final rehabilitation of the area;
 - (b) waste rock is used either for fill in underground workings or for engineering purposes on or off the site of the said operation or stockpiled to a limit not in excess of 800,000 tons pending the eventual rehabilitation of the said site;

*signed to
Soil Pollution Control
September 2/75
CBO/ed.*

C-6-971

1. Cont'd . . .

(c) trees and other vegetation are disposed or in an orderly manner with due regard for possible fire hazard.

2. The Applicant shall ensure that surface stockpiling of the ore produced from the said operation shall not exceed 30,000 tons.

3. The Applicant shall ensure that all reasonable precautions are taken to minimize contamination of the environment, both within and without the said open pit mine, by miscellaneous substances such as waste oil, petroleum by-products, explosive materials and other chemicals or compounds.

IT IS HEREBY FURTHER ORDERED THAT

4. The Applicant shall, within one month of the date of issuance of this Order, arrange for the taking and analyzing of samples of mine water and of the waters of the Oiseau (Bird) River as detailed in subclauses (a), (b) and (c);

(a) a minimum of one sample of the mine water shall be taken and analyzed, according to the attached Schedule A describing the sampling frequency, for the following content and characteristics:

- (i) pH (hydrogen ion concentration)
- (ii) suspended solids
- (iii) Iron as Fe
- (iv) Copper as Cu
- (v) Nickel as Ni
- (vi) Lead as Pb;

(b) a minimum of one sample from each of two points on the Oiseau (Bird) River shall be taken and analyzed, according to attached Schedule A describing the sampling frequency, for the content and characteristics as listed in subclause (a) above subject to:

4.(b) Cont'd . . .

- (i) the required sampling and analyzing being applicable only during the period from the 1st day of May to the 30th day of November of any year,
 - (ii) the two points on the Oiseau (Bird) River shall be the river bridge on Provincial Road 315 east of the site of the said operation and the river bridge on the access road leading to the Bernic Lake Mine of the Tantalum Mining Corporation of Canada, Limited, and
 - (iii) the samples shall be taken on the same day as samples are taken of mine water further to the requirements of subclause (a) above,
- (c) at approximate six month intervals on any one day in the month of May and November, during the active state of the said operation, a minimum of one sample of mine water as discharged from the said open pit mine, and one sample from each of the two sampling points described in subclause (b) above on the Oiseau (Bird) River, shall be taken and analyzed for the following content and characteristics:
- (i) Arsenic as As
 - (ii) Cadmium as Cd
 - (iii) Cyanide as CN
 - (iv) Lead as Pb
 - (v) Mercury as Hg
 - (vi) Copper as Cu
 - (vii) Nickel as Ni
 - (viii) Zinc as Zn
 - (ix) Iron as Fe
 - (x) Total Solids
 - (xi) Total volatile solids
 - (xii) Suspended solids
 - (xiii) Suspended volatile solids
 - (xiv) Settleable solids
 - (xv) Hydrogen ion concentration (pH)

5. The Applicant shall report to the Environmental Management Division of the Department of Mines, Resources and Environmental Management on the results of the analyses required under Clause 4 within 30 days of the end of the month in which the samples are taken.

6. The Applicant shall, within one month of the date of issuance of this Order, arrange for the measurement of the flow or discharge of mine water from the said open pit mine to an accuracy of plus or minus ten percent and shall arrange for the recording of the said flow or discharge during the first and the second half of each calendar month and shall submit the record of the said flow or discharge to the Environmental Management Division of the Department of Mines, Resources and Environmental Management within fifteen days of the end of the month of record.

- ✓ 7. The Applicant shall, within three months of the date of issuance of this Order, file with the Clean Environment Commission a detailed scheme for:
 - (a) the orderly removal and eventual disposal of all structures, their contents, and all other accumulated and stockpiled material on the site of the said operation as and when the operation is terminated; and
 - (b) the steps proposed to be taken to rehabilitate the said site progressively and at the termination of the said operation for the purpose of the preservation and enhancement of the environment;

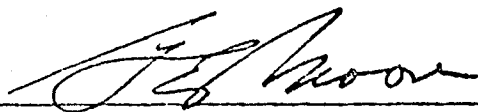
which in turn will be subject to approval or otherwise by the said Commission as a basis for future planning and eventual action by the Applicant.

8. The Applicant shall, within one year of the date of termination of the said operation, complete all necessary steps and carry out the detailed scheme as approved by the said Commission for the rehabilitation of the environment.

Order No. 470

Dated at the City of Winnipeg

this 26 day of AUGUST, 1975



Chairman,
Clean Environment Commission

SCHEDULE OF SAMPLING FREQUENCY

Parameter	At least monthly if concentration greater than (mg per litre)	At least every 3 months if concentration is equal to or greater than (mg per litre)	At least every 6 months if concentration is less than (mg per litre)
Nickel	0.2	0.10	0.10
Copper	0.1	0.05	0.05
Lead	0.1	0.05	0.05
Iron	0.5	0.25	0.25
Suspended Solids	20.	15.	15.

The pH shall be measured at least

- i) monthly if pH is less than 5.5 or greater than 10.0
- ii) every 3 months if pH is less than or equal to 6.0 or greater than or equal to 9.5
- iii) every 6 months if pH is between 6.0 and 9.5