



cc Kaut H.

W. Moore

Ottawa, Ontario  
K1A 1C8

January 26, 1979

Your file    Votre référence

Our file    Notre référence

Mr. D. Krofchak  
Canadian Waste Technology Inc.  
160 Torbay Road  
Markham, Ontario  
L3R 1G6

4780-25

Dear Mr. Krofchak:

Re: Solidification of Giant Yellowknife Mine Wastes -  
Contract No. KE204-7-EP113

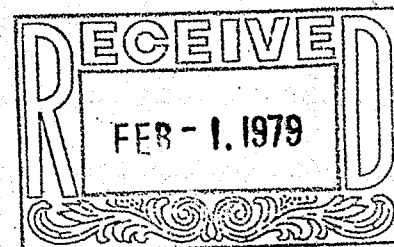
Thank you for your letter of December 18, 1978, confirming that you will repeat the fixation testwork on the 2 samples from Giant Yellowknife Mines, i.e., Calcine Leach Residue and Carbon Plant Barren Slurry (dust barren). As you mentioned the work is to be done for the remainder of the funds in the original contract. I believe that we agreed by phone that this really meant the funds in the original contract as amended, i.e., \$5,044.32. If this is not correct will you please let me know.

When speaking to Neil Cook during your absence he mentioned that he no longer had any sample of Carbon Plant Barren Slurry. Therefore I have arranged with W. Moore of Giant Yellowknife Mines to send you fresh samples of calcine leach residue and carbon plant barren slurry. During a later discussion with Neil Cook I suggested that perhaps a sample of flotation tailings, which is high in silica might be useful as a blending component and he agreed so I have also requested a sample of tailings from Giant. Larry Connell, Giant's metallurgist phoned me on January 25 to say that the samples were being shipped immediately and I have made Neil aware of this.

The samples are to be shipped to you collect for which you may invoice us over and above the contract price if there is insufficient money in the remaining funds.

I have attached several pages from the cyanide/arsenic removal pilot plant project report which provide information pertinent for the materials you will be solidifying.

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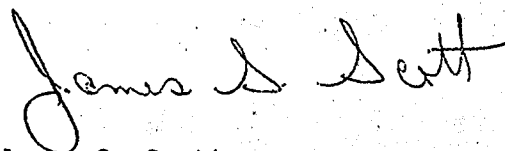
You will note that the solution in the Carbon Plant Barren Slurry (dust barren), identified as GYK #4 in the report, typically analyses as follows:

TSS - 306,000 gm/l  
As<sub>T</sub> - 11,000 mg/l (total)  
760-2630 mg/l (in solution)  
CN<sub>T</sub> - 500 mg/l (will be mostly in solution)  
Cu<sub>T</sub> - 6,000 mg/l (will be mostly in solution)  
Zn<sub>T</sub> - 800 mg/l (will be mostly in solution)  
Fe<sub>T</sub> - 60,200 mg/l (will be mostly in solids)  
Ph 8-9  
12T/D solids in this slurry at approx. 30% solids

The calcine residue filter cake may run 15-20% moisture which contains appreciably amounts of cyanide, arsenic and heavy metals in the water. For example, the cyanide in the water phase could run 200-300 mg/l CN.

I would like to emphasize the urgency to complete your contract before March 31, 1979 since our funds for this project must be spent in this government fiscal year. If I can be of any further assistance in the completion of the work please let me know.

Yours very truly,



James S. Scott  
Chief, Mining & Metallurgical Division  
Water Pollution Control Directorate

cc: W. Moore ✓  
C. Whalley