

MEMORANDUM

To A.K. Campbell; A. Chen;
From H.E. Pearson
Subject Metal Tons at Various Locations

Date October 30, 1973
Ref. _____

Samples taken October 3, 1973


	<u>E-2 OUTFALL</u>	<u>B SHAFT</u>	<u>MINE WATER</u>	<u>BARKER CREEK BELOW A BOIL.</u>	<u>LAISTINE BARKER</u>
pH	9.2	8.4	7.8	8.0	7.6
Cyanide (CN)	34.00	5.20	1.2	2.6	0.04
Copper (Cu)	9.41	2.85	0.14	1.71	N.D.
Iron (Fe)	1.50	1.50	53.75	2.75	1.00
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.06	1.86	2.00	4.53	N.D.
Arsenic (As)	10.11	1.245	2.87	0.904	0.027

Note iron content of mine water.

Earlier work by Richardson and Lane indicated improved arsenic suppression by utilisation of ferric salts in chloride and sulphate state.

It may be possible to convert iron in mine water to hydroxide. This should improve arsenic suppression and possibly bring down copper and zinc.

An attempt will be made in the lab and if successful, mine water could be used in the arsenic treatment agitator #8.


H.E. Pearson
Mill Superintendent