

ROYAL OAK MINES Inc.
Yellowknife Division - Giant Mine
Mill Department

To: K. Kim

CC: A. Jones

From: P. O'Hara

Date: October 22, 1993

Subject: STACK TESTING RESULTS - OCTOBER 14, 1993

The stack was sampled on Oct. 14 and the results are summarized below. The feed rate was steady at 55 seconds during the test. The test was started at 2:05 pm and completed at 5:15 pm.

Volumetric Flowrate 39,948 m³/hr
Arsenic Concentration 27.04 mg/m³
Arsenic Emission Rate 29.2 kg/day -> 64.4 lb/day

Data for recent stack tests is summarized below:

Date	Flowrate (m ³ /hr)	Arsenic Conc (mg/m ³)	Arsenic Emission Rate	
			kg/day	lb/day
Oct 14/93	39,948	27.04	29.2	64.4
Jun 24/91	38,718	16.34	15.2	33.5
Aug 17/90	45,041	34.29	37.1	81.8
Oct 11/89	45,321	24.04	26.2	57.7