



**Royal Oak
Mines Inc.**

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**SENT VIA FACSIMILE
(to (867) 873-0221)**

September 27, 1998

Mr. Jim Sparling
Air Quality Specialist
Environmental Protection Service
Resources, Wildlife & Economic Development
Suite 600, 5102 - 50th Avenue
Yellowknife, N.T., X1A 3S8

Dear Mr. Sparling,

Re: Implementation Schedule for the Giant Mine Emissions Monitor

Further to my letter of August 27 on this subject, addressed to Mr. Emery Paquin, and following your visit to the Giant Mine last Tuesday, I would like to summarize the current status of this project.

The installation is ahead of the schedule I had indicated in my last letter. The sample probe box, sample probe, pitot tube assembly and 'umbilical cord' have all been installed in their final configuration. Remaining outdoor installations include mounting and connection of the differential pressure and temperature transmitters, and insulation of the sample probe box.

The analyser room has been completed and the analyser cabinet has been installed. An air cleaning unit, required to provide dry, oil-free compressed air to the system, has been refurbished and installed. The required calibration gases have been ordered. The remaining purchases include a small air compressor and the computer hardware and software required to calculate the gas mass flow rate and log the mass-flow and SO₂ concentration data. Final decisions on these purchases will be made by October 2nd.

In my letter of August 27, I indicated that manual stack sampling for the purposes of evaluating the accuracy of the C.E.M.S., and 'certifying' the system, would not be possible in very cold weather. In the last few weeks I have consulted with Entech Environmental Services on this subject. They have informed me that, while low ambient temperatures do affect stack sampling for arsenic, manual stack sampling for sulphur dioxide is quite possible, even in the coldest of winter weather.



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With this in mind, Royal Oak Mines is proposing to complete the installation and commissioning of the C.E.M.S. in October and to conduct certification testing at the earliest opportunity in November, of this year. Royal Oak is very much interested in the financial assistance that has been offered by your department to conduct this testing.

You may wish to contract the certification testing directly. I would recommend the services of Entech Environmental for this work, given their extensive, recent experience with this particular roaster/stack system. I understand that they still have time available in November, but that this time may be allocated to other clients in the next couple of weeks. You may contact Entech as follows:

Entech Environmental Services
Unit 6, 1826 - 25th Avenue N.E.
Calgary, Alberta, T2E 7K1
Tel (403) 250-3532
Fax (403) 250-9577

Contact: John Jackson, President

I will contact you shortly to discuss these issues. In the meantime, if you should have any questions, please call me at (867) 669-3729.

Yours sincerely,
Royal Oak Mines Inc.

Stephen Schultz
Superintendent, Environmental Services
NWT Division

cc: Ed Collins (Environment Canada)
John Stard (ROM)
Kent Morton (ROM)
Al Goetz (ROM)
Larry Connell (ROM - Kirkland)