



**Royal Oak
Mines Inc.**

Fax Transmission

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DATE:

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MESSAGE:

As per your request . . . CEMS info.

**Royal Oak Mines Inc.
Giant Mine**

Status of Continuous Emissions Monitoring System for Sulphur Dioxide
(January 1998)

We have purchased the system from Rosemount Instruments at a cost of \$85,581. Analyser delivery was delayed by problems at Rosemount USA and customs complications. Analyser arrived late September 1997.

The original budget for this project was \$84,000. We will have additional installation and commissioning expenses as follows:

Installation (materials for installing probes on stack, sample line, heated enclosure for analyser)	\$ 5,000
Software <i>→ Air cleaning unit</i> (For analysis of data, calibration etc.)	\$10,000
Calibration gases	\$ 2,500
Commissioning & Training assistance	\$15,000
Certification for G.N.W.T. (Manual stack sampling)	\$10,000
TOTAL C.E.M.S. system installation & commissioning	\$42,500

In addition to these costs, technical manpower will be required to coordinate the installation.

Installation has been delayed due to cost and manpower constraints