



October 20, 1998

Royal Oak Mines  
Yellowknife, NWT  
FAX # 867-669-3824

ATTENTION: Mr. Steven Schultz  
REFERENCE: Data acquisition and reporting system

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In response to our recent telephone conversation, Entech Environmental is pleased to provide the following quotation on the ESC Continuous Emission Monitoring Data Acquisition System.

The system consists of a Model 8816 Data Logger and the Strip Chart replacement software.

The specifications for the Model 8816 are :

- 2 RS232C serial ports
- 768 KB Battery backed RAM
- Real time Clock
- 512 KB ROM
- CEM Firmware
- User Manual

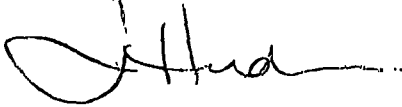
The datalogger is customized to the your site requirements with the addition of 4-20 ma current input and digital control output modules. As well a keypad/display is included and digital analog outputs for sending the signal to chart recorder or other device. This digital analog output option would not be needed if the software is used to generate all the data.

The datalogger would be in the CEM shelter with the signal sent to a computer in the control room. Royal Oak would supply the RS485 cable as well as the computer. Entech would provide the system configuration, installation and on-site training. The costs for the system (excluding the computer and cabling) is outlined in the attached quotation. The prices are all GST Extra, FOB Calgary.

We are having a demonstration of the ESC system on November 2, 1998 in Calgary. Steve Drevik of ESC will be discussing the dataloggers and software and providing demonstrations of both. If you would like to attend please contact us to reserve as many

spots as you need. In the meantime if you have any questions regarding this quotation please feel free to contact us at your convenience.

Yours truly,

A handwritten signature in black ink, appearing to read "J. Hudson", with a large, stylized initial "J" and a horizontal line extending to the right.

Jackie Hudson  
Director, Monitoring Services

ATTACHMENT I DATALOGGER QUOTATION			
CLIENT: ROYAL OAK MINES	DATE: 10/20/98	VALID FOR 30 DAYS	
YELLOWKNIFE, NWT			
INSTRUMENTATION	# units	PRICE	
8816 DATALOGGER	1	\$8,020.00	
EIGHT CURRENT INPUTS	1	\$815.00	
EIGHT CONTROL OUTPUTS	1	\$650.00	
KEYPAD AND DISPLAY	1	\$1,625.00	
RS 485 CONVERSION	1	\$230.00	
CURRENT OUTPUTS	1	\$1,900.00	
<i>"Trigger"</i> <i>control calibration</i> <i>blow-blast,</i> <i>or audible alarm</i> <i>for output of calculated</i> <i>data (i.e. to control room)</i>			
		SUBTOTAL	\$13,240.00
STRIP CHART REPLACEMENT SOFTWARE (REPORTING AND ACQUISITION PROGRAM)		1 SUBTOTAL	\$1,480.00 ✓
			14,720
DELIVERY 3 TO 4 WEEKS			
FOB CALGARY			
GST EXTRA			
	# hrs/mts	\$/hr /nt	# people
CONFIGURATION	4	\$80.00	1
INSTALLATION / TRAINING	8	\$80.00	1
		SUBTOTAL	\$960.00
EXPENSES @ COST PLUS 15%			
AIRFARE			
MEALS			
HOTEL			
ENTECH ENVIRONMENTAL			

*w/one* current output 1,900  
*control output* 650  
*Digitance* 1,480  
 TOTAL. \$ 10,680

*w/ Digitance = \$ 12,170*