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Environmental Scientists**FAX TRANSMITTAL**

To: LARRY CONNELL	Fax No: 682-4286
Company: ROYAL OAK	Date: Nov 15/94
From: SUSAN EYRE	Time: 11:45
Dillon Project No: 94-2491	Total Pages (incl. this sheet) 3
Regarding: Information.	

As promised.

Susan

TO: David Anthony
FROM: Susan Eyre
FILE: Royal Oak Mines-Atmospheric Dispersion Modelling
DATE: November 8, 1994
SUBJECT: Data requirements, Project meeting
cc: Jim Sparling-GNWT, Gary Strong-Dillon, Ron Hilburn-HUM

As per our recent conversation, please find enclosed a list of our data requirements for the atmospheric dispersion modelling and schedule for project meeting and site visit. I have indicated the responsible party behind each item.

The following data are needed as model input:

Site Geometry Data

- stack height and inner diameter(**Royal Oak**)
- gross dimensions of buildings or other structures near the stack(**Royal Oak**)
- the shortest distance from the stack to the lake shoreline(**Dillon**)
- topographic elevations for a ten kilometre radius in all directions from the stack(**Dillon**)
- a site plan showing the relative position of the stack to nearby buildings(**Royal Oak**)

Stack Emissions Data(GNWT/Royal Oak)

- results of all stack tests
- exit gas temperature, composition (if available), flowrate
- emission rate of As203 and SO2
- particulate emission rate
- particulate size distribution and elemental composition(if available)

Local geographic and hydrologic information

- lake surface water temperature-year round(**Dillon**)
- measured temperature gradients over land and lake (if available)(**Dillon**)
- reports from any previous modelling or local meteorological studies (if any)(**GNWT**)
- identify portion of the year when the lake is frozen, when it typically first freezes, thaws and the extent of ice formation(**Dillon**)

I would like to undertake both the site visit and project meeting on Thursday the 24th of November. Perhaps we could conduct the site visit in the morning and then have the meeting at the Royal Oak site at around 1:30? Please confirm that this is suitable so that I can alert all other parties.

Thankyou and I look forward to meeting you in Yellowknife.

Attached is a revised project schedule for review. Please note that the schedule is basically one month behind due to delays in project initiation.

Revised Project Timetable

Initial Meeting/Site Visit	November 24, 1994
Background Information	
Select Model	
Process Input Data	
Initial Model Runs	
Progress Meeting	week of January 9, 1995
Sensitivity Analysis	
Assess Control Options	
Draft Report	January 27, 1995
Final Report	February 17, 1995

