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| To: David Anthony | From: Susan Eyre | |
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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 As2O3 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.

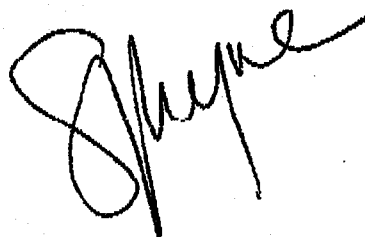
M.M. Dillon Limited, 130 - 10691 Shellbridge Way, Richmond B.C.
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Thankyou and I look forward to meeting you in Yellowknife.

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

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|----------------------------|-------------------------|
| 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 |



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