



**Royal Oak
Mines Inc.**

File

Yellowknife Division
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March 30, 1992

Chemex Laboratories
Calgary, Alberta
Attn: Mary Mayes

Dear Mary,

Enclosed are two dust samples collected from certain areas in the
Assay Lab.

Sample 1: Tare wt. = 41.86 mg
Final wt. = 41.99 mg
Length of Exposure = 7 hours 25 minutes
Flow Rate = 1.85 L/min

Sample 2: Tare wt. = 42.56 mg
Final wt. = 42.76 mg
Length of Exposure = 6 hours
Flow Rate = 1.85 L/min

Please analyze for LEAD content.

Forward results to the undersigned as soon as possible.

Thank you.

Sincerely Yours,

Royal Oak Mines Inc.

Vi Lau-a

Vi Lau-a

Environmental Lab Tech

Calculations :

Sample 1 : In front of the Furnace

Length of Exposure = 7 hours 45 minutes

Flow Rate = 1.85 L/min

Pb = 49 ng = .049 mg

$$\text{RESP Lead} = \frac{\text{mg Pb}}{\frac{\text{Length of Exposure} \times \text{Flow Rate}}{1000}} = \frac{\text{mg}}{\text{m}^3}$$

Cubic meter
↓
CC (m³)

$$= 0.06 \text{ mg/m}^3$$

Sample 2 : Rough Balance Room / Flux Wiring Room

Length of Exposure = 6 hours

Flow Rate = 1.85 L/min

Pb = 14 ng = .014 mg

RESP LEAD = 0.02 mg/m³

Limits : 8 hr. occupational Exposure = 0.15 mg/m³

15 min. occupational Exposure = 0.45 mg/m³

$\frac{V_i}{4}$