

I.D. ENGINEERING CANADA INC.
Professional Engineers

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① Done & please review or
② Don Labossiere



June 1, 1993

Manitoba Environment
Building 2
139 Tuxedo Avenue
Winnipeg, Mb R3H 0H6

File No.: 01-145

ATTN: Mr. Don Labossiere

Dear Mr. Labossiere,

**Re: Northwest Smelting & Refining Ltd.
2185 Logan Avenue, Winnipeg, Mb**

The following presents the proposed off-site work plan for the above noted location.

WORK PLAN

The purpose of this investigation is to determine the off-site extent of surface contamination and to determine the extent of subsurface contamination mobility. The scope of work will initially include:

- the advancement of six (6) boreholes to approximately four (4) meters (m) below grade;
- the collection of soil samples at one (1) m intervals;
- the submission of two (2) soil samples per borehole (one (1) and three (3) m samples) for laboratory analysis of total lead (EPA 3050) and lead by leachate (dissolved lead - 82104);
- the preservation of the remaining samples for possible analysis if necessary;
- the installation of monitoring wells in each borehole;

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- the collection of water depth and elevation in each well to determine ground water flow direction.
- the collection of a water sample from each new well and from the nine (9) previously installed wells.
- the submission of fifteen (15) water samples for laboratory analysis of dissolved lead (82104);
- the completion of a report presenting our findings, conclusions, and recommendations for remediation.

The locations of these boreholes/monitoring wells are illustrated on the attached FIGURE. This investigation will be hopefully be scheduled for the week of June 7-11, 1993.

We trust the above will meet your requirements. If you have any questions, please call me at 489-5900.

Yours truly,
I.D. Engineering Canada Inc.

Susan Lambert-Kroedel
for G. Blaine Murray, P.Eng.
Manager, Environmental Services

cc C. Chapple - Aikens, MacAulay & Thorvaldson

