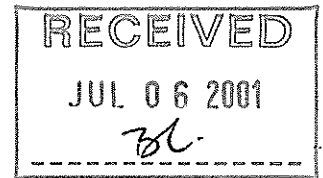


**Louie Azzolini**

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**From:** Zoe\_Posynick@gov.nt.ca  
**Sent:** Friday, July 06, 2001 12:09 PM  
**To:** EAO1@mveirb.nt.ca  
**Subject:** CZN Information Requests



IR 1 Pilot Plant  
Alternatives....



IR 2 Decline.doc



IR 3 Bulktest.doc

Louie,

I've attached the GNWT information requests for the CZN environmental assessments.

Thank you,  
zoe

Zoe Posynick  
Environmental Assessment Technician  
Policy, Legislation and Communications  
Resources, Wildlife and Economic Development  
Government of the Northwest Territories  
Tel: 867-920-3197  
Fax: 867- 873-0114

**Canadian Zinc Corporation Decline Development and Bulk Testing  
Environmental Assessment**

**Information Request # 1**

**Date:** July 5, 2001

**From:** Lionel Marcinkoski, Government of the Northwest Territories, RWED  
Environmental Protection Services.

**Phone:** 873-7654

**Fax:** 873-0221

**Email:** [lionel\\_marcinkoski@gov.nt.ca](mailto:lionel_marcinkoski@gov.nt.ca)

**Subject:** Alternatives to the proposed insitu pilot plant operation.

**Objective:** To permit a thorough assessment of the available alternatives to the proposed project

**Time Limits:** Information is required as soon as possible to permit review by RWED and other review agencies

**Preamble:** As a component of all resource projects RWED appreciates that Pilot Plant programs and testing are the requirements for financial investors and establishing assurance that the milling process will perform to the standards forecasted. In the Environmental Assessment documents submitted, no evaluation was conducted on the following alternatives:

1. A pilot plant operation based on a DRY milling process, which would create dry tailings that, could be disposed of underground, and should be investigated.
2. Bulk testing occurring at a similar mining operation such as the Cantung Mine or alternates in Canada. Note: on page 20 the reader does not understand the significance of this statement " Test work would not generate as representative results due to the inability to duplicate site conditions (ie. Use of site water); for these reasons this is not a viable alternative." This raises the concern is their some special characteristics of the Prairie Creek groundwater and process water, that we have not been advised of.
3. Stabilization of complete tailings streams liquids and solids as backfill in the underground mine.

**Requests:** Please provide an expanded discussion of these alternatives that demonstrates why they are not feasible from the perspective of Canadian Zinc.

**Canadian Zinc Decline Drilling and Pilot Plant  
Environmental Assessment**

**Information Request # 2**

**Date:** July 5, 2001

**From:** Lionel Marcinkoski, Government of the Northwest Territories, RWED  
Environmental Protection Services

**Phone:** 873-7654

**Fax:** 873-0221

**Email:** [lionel\\_marcinkoski@gov.nt.ca](mailto:lionel_marcinkoski@gov.nt.ca)

**Time Limits:** Require information as soon as possible, in order to meet MEIRB  
Environmental Assessment schedule

**Subject:** Water Quality

**Objective:** To obtain further information regarding the management of mine water  
during and after the development of the proposed decline.

**Preamble:** The Environmental Assessment Report submitted on June 21, 2001  
for the underground decline development and exploration drilling program  
does not demonstrate that the proponent has incorporated adequate  
management of contaminated water in its project planning.

In the submission three sources of contaminated water will be discharged  
to the environment;

1. Contaminated mine water (from surface or groundwater flows)  
produced during the mine decline development and in the underground  
exploration program.
2. Contaminated mine water that will result from the abandonment and  
flooding of the underground workings, therefore contaminating  
groundwater, which will enter the environment.
3. Seepage water contamination from the waste rock piles on surface.  
The proponent indicates that these material have no acid generating  
potential, but the possibility of other contaminants leaching into the  
water remains.

The proponent in all three cases states that no significant adverse impacts  
to the environment will occur. For the mine water, the option proposed for  
mitigation is pumping/storage into the tailings containment area. No  
collection system is proposed for waste rock seepage.

**Requests:** RWED requests information on the water quality monitoring program that is proposed for CZN, including sample frequency, parameters of interest, and QA/QC program. Details of the drainage collection systems for the underground development and surface waste rock piles are also requested.

**Canadian Zinc Corporation Decline Development and Bulk Testing  
Environmental Assessment  
Information Request # 3**

Date: July 5, 2001

From: Lionel Marcinkoski, Government of the Northwest Territories, RWED  
Environmental Protection Services.

Phone: 873-7654

Fax: 873-0221

Email: [lionel\\_marcinkoski@gov.nt.ca](mailto:lionel_marcinkoski@gov.nt.ca)

**Subject:** Predicted water quality in the tailings containment facility and for discharge to the environment

**Objective:** To permit a thorough assessment of the expected water quality impacts of the proposed development.

**Time Limits:** Information is required as soon as possible to permit review by RWED and other review agencies

**Preamble:** The Environment Assessment Report submitted by Canadian Zinc on June 21, 2001 for the Metallurgical Pilot Plant Program, (LUP application MV2001L2-0003), does not quantify the degree of contamination associated with the effluent discharge, and tailings waste impacts on the environment. The proponent has not discussed in detail the final disposal and abandonment/remediation plans for the byproducts of the Pilot Plant bulk test program.

**Requests:** RWED requests information on the following water quality issues:

- ◆ CNZ is asked to provide a discussion of the predicted geochemical characteristics of both the effluent water and tailings solids that will be produced as a result of the pilot plant process.
- ◆ The proponent is asked to research and provide information on effluent quality from other lead zinc mines with similar operating conditions, eg, Cantung, Polaris, Nanisivik, Pine Point.
- ◆ CZN is asked to discuss the water quality standards that they have used in reaching their determination that no adverse effects will occur as a result of the pilot plant development for the water volumes discussed on page 23 of the EAR. (e.g. Metal Mining Effluent Regulations, Canadian Council of Ministers of the Environment standards)

- ◆ Has proponent conducted acute toxicity testing for water in tailings pond? Can the proponent predict toxicity results accounting for addition of effluent inflow from milling?
- ◆ The proponent is asked to describe the current quality of the 225,000 m<sup>3</sup> of water in the present tailings facility and the geochemical characteristics of any tailings or other solids that are already in the tailings containment area.
- ◆ RWED requests the proponent to submit evidence that the tailings containment area is competent to contain the current volumes and the proposed additional volumes of effluent over time. This could be accomplished through the conduct of a geotechnical assessment of the containment facility and an assessment of the integrity of the high density membrane by a Professional Engineer.
- ◆ The proponent is asked to provide contingency plans for tailings containment facility failure, including a remediation plan.
- ◆ CZN is asked to discuss any programs planned to monitor groundwater in the vicinity of the tailings containment area

Cc: Ken Hall  
L/m: inforeqBulktestjul3