



*From Preliminary Screening record.*  
**CANADIAN ZINC**  
CORPORATION

*CZN Expansion*

April 20, 2004

Mackenzie Valley Land and Water Board  
7<sup>th</sup> Floor, 4910-50<sup>th</sup> Avenue,  
Yellowknife, NT  
X1A 2P6

**\*\*via fax 867-873-6610 and email\*\***

**Mackenzie Valley Land  
& Water Board**

**File** \_\_\_\_\_

**APR 23 2004**

**Application #** MV2001C0022

**Copied To** PLM/ISB Reg

**Attention: Sarah Baines, Regulatory Officer**

Dear Sarah:

**Re: Request for Amendment to LUP MV2001C0022, Prairie Creek NT.**

Canadian Zinc Corporation hereby submits a request for an Amendment to LUP MV2001C0022, specifically with reference to the Condition in Part C, Section 1, to include all lands within the Prairie Creek Property, as described in the attached Application.

***Reasons for Amendment***

The recent issuance of Land Use Permit MV2001C0023 for underground work coupled with market conditions, and investor interest has directed the Company to place additional emphasis on further exploration diamond drilling in other areas of the Prairie Creek Property.

***Permit Background***

The original application for a Land Use Permit to support a 60-70 drill hole program at the Prairie Creek property was accepted by your Board March 7, 2001. Supporting documentation accompanying the application included a Project Description Report dated February 28, 2001. The application was referred to EA on April 11, 2001 and the review process was completed which resulted in LUP MV2001C0022 dated November 8, 2001 being issued to the Company.

***Nature of Amendment***

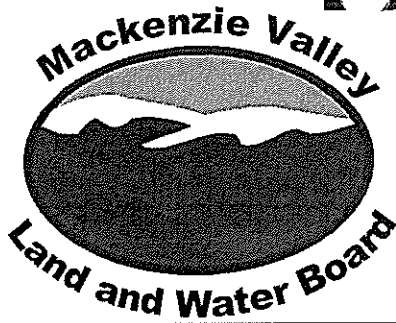
The company wishes to carry out diamond drill operations in a similar manner to that described in the existing license except the area of interest needs to expand to include other areas of the Prairie Creek Property. The drilling program would be carried out utilizing existing and appropriate drill and heavy equipment.

The Company is confident that the environmental and socio/cultural implications of this requested amendment remain negligible and consistent with predictions presented in the original Project Description Report filed with the Mackenzie Valley Land and Water Board, as well as the Report of Environmental Assessment prepared by the Mackenzie Valley Environmental Impact Review Board.

Your prompt attention to this application would be much appreciated and if you have any questions please contact me immediately.

Yours truly,

Alan B. Taylor  
Vice President Exploration



**Mackenzie Valley Land and Water Board**  
**7th Floor - 4910 50th Avenue**  
**P.O. Box 2130**  
**YELLOWKNIFE NT X1A 2P6**  
**Phone (867) 669-0506**  
**FAX (867) 873-6610**

Application for:

New Land Use Permit

Amendment

MV2001C0022

or Renewal

**\*\*TYPE A\*\***

1. Applicant's name and mailing address: Canadian Zinc Corporation 1202 - 700 W. Pender St. Vancouver, BC, V6C 1G8	Fax number: 604-688-2043
2. Head office address: As above  Field supervisor: Mr. Alan Taylor Satellite telephone: 1-600-700-2454 Satellite fax: 1-600-700-9209	Telephone number: 604-688-2001  Fax number: As above  Telephone number: As above
3. Other personnel (subcontractor, contractors, company staff etc.)  TOTAL: To be determined. Est. 14 (Number of persons on site)	
4. Eligibility: (Refer to section 18 of the <i>Mackenzie Valley Land Use Regulations</i> )  a)(i) <input checked="" type="checkbox"/> a)(ii) <input type="checkbox"/> a)(iii) <input type="checkbox"/> b)(i) <input type="checkbox"/> b)(ii) <input type="checkbox"/>	
5. a) Summary of operation (Describe purpose, nature and location of all activities.)  As part of the ongoing process of establishing, confirming and enhancing the known mineral resource at the Prairie Creek property, Canadian Zinc proposes to conduct an additional surface mineral exploration drilling program, to follow up on the 6-7 hole Phase I program applied for on July 28, 2000.  The main objective of the proposed drilling exploration program is to further delineate the area of vein and stratabound mineralization that makes up the known mineral resource in Zone 3 where the majority of exploration work has been conducted to date. The program is designed to provide the additional degree of confidence in the geological database necessary to upgrade the existing 11.8 million tonne mineral resource to mineral reserve status through the application of geostatistical modeling. As a result, proposed holes are located between and in close proximity to existing holes in order to provide in-fill drilling on a closer spaced grid.  Subject to available funding, the program is expected to entail drilling of 50 - 60 holes of up to 500 metres each in length for a total of up to 25,000 to 30,000 metres of recovered core.  The area proposed for investigation includes other areas of the Prairie Creek Property that are registered to Canadian Zinc Corporation including Mining Leases and Mineral Claims as described further in the original Project Description Report. Access to the drill sites will be via the network of existing tote roads.  b) Please indicate if a camp is to be set up. (Please provide details on a separate page, if necessary.) The land use operation will be based in and serviced from the existing facilities at the Prairie Creek Mine. No new camp will be set up.	

6. Summary of potential environmental and resource impacts (describe the effects of the proposed land-use operation on land, water, flora & fauna and related socio-economic impacts). (Use separate page if necessary.)

Minimal environmental disturbance is expected to occur as all activity will take place within the area of traditional mining activity that being the boundaries of the existing mining leases and claims. . New surface disturbance will be restricted to the immediate area of each drill pad. To the extent practical drilling will be conducted from existing pads or from new pads constructed immediately adjacent to existing tote roads. Where new road access is required, distances are expected to be minimal, typically in the order of a few to 20 –30 m in length.

A total of some 249 holes have been drilled on the property to date. An application to drill an additional 6-7 holes was made on July 28, 2001. An Environmental Assessment Report on this Phase I drilling program was submitted to the MVEIRB on January 26, 2001. A detailed Project Description Report summarizing potential impacts has been prepared and submitted in support of this application for the Phase II program. Upon completion of the two programs the total number of holes drilled on the property will be in the range of 300 to 320.

7. Proposed restoration plan (please use a separate page if necessary).

The area of the proposed development is within the area of traditional mining activity. Depending on the results of the exploration program these areas are expected to be subject to ongoing activity associated with further exploration and mine development. Accordingly, final reclamation and abandonment of these sites is not proposed at this time.

The proposed drilling program will entail minimal disturbance of surficial materials. All proposed drill locations are in close proximity to existing exploration tote roads which will minimize disturbance relating to the establishment of roads and drill sites. To the extent practical drilling will be conducted from existing pads or from new pads constructed immediately adjacent to existing tote roads, again to minimize surface disturbance. Where required, extensions to existing tote roads will be kept to a minimum, typically only from a few up to 10 or 20 metres. The drill pads will be prepared only large enough to accommodate and position the approximate 7m x 4m drill rig.

Where clearing is required to create short extensions, or spurs, from existing tote roads, or the drill pads themselves, surficial materials will be stripped and stockpiled adjacent to the area. Any trees which require clearing will be bucked into 1.5 metre lengths. When all drilling is complete, cut banks will be re-contoured to conform to the local topography and stabilized, and stockpile surficial materials will be back bladed over the disturbed areas.

8. Other rights, licences or permits related to this permit application (mineral rights, timber permits, water licences, etc.)

Mining Lease 2932, 2931, 2854, 2933, 3315,3338, Mineral Claims F67134, F67135, F67136, F67137 and Surface Lease 95F10/10-5-3.

No new roads required, only access spurs to drill pads from existing roads.

Roads:  Is this to be a pioneered road?  Has the route been laid out or ground truthed?

9. Proposed disposal methods.

- |   |  |
|---|--|
| a) Garbage: Prairie Creek refuse site                   | c) Brush & trees: NA   |
| b) Sewage (Sanitary & Grey Water):<br>Exfiltration sump | d) Overburden (Organic soils, waste material, etc.):<br>To be stockpiled adjacent to drill pad |

10. Equipment (includes drills, pumps, etc.) (Please use separate page if necessary.)

Type & number	Size	Proposed use
2 Longyear Super 38 or equivalent	4m(w)x 7m(l) x 8m(h) – 350 GMC diesel	Core Drilling
1 Cat front end loader	966	Road maintenance
1 Cat bulldozer	D8	Road Maintenance
1 Cat grader	14G	Road Maintenance

2 rock trucks	Volvo 5350	Road Maintenance
3 Pick up trucks	¾ ton	Personnel transport

11. Fuels	( )	Number of containers	Capacity of containers	Location
Diesel		4	1.7 million litres ea	Existing Tank Farm
		2	1200 litres	Drill Rigs
		5	400 – 1200 litres	Mobile equipment
Gasoline		2	20,000 litres ea	Existing Tank Farm
		3	150 litres ea	Pick up trucks
Aviation fuel				
Propane				
Other				

12. Containment fuel spill contingency plans. (Please attach separate contingency plan if necessary).

A spill contingency plan has previously been prepared and submitted for the Prairie Creek Mine.

13. Methods of fuel transfer (to other tanks, vehicles, etc.)

Manual or electric pump, gravity.

14. Period of operation (includes time to cover all phases of project work applied for, including restoration)

Estimated duration of operation: 6 months  
 Period of operation: June 1 – October 31, 2004

15. Period of permit (up to five years, with maximum of two years of extension).

5 years: Additional exploration drilling will be conducted in subsequent years.

16. Location of activities by map co-ordinates (attached maps and sketches)

Minimum latitude (degree, minute) 61° 33' N      Maximum latitude (degree, minute) 61° 33' N

Minimum longitude (degree, minute) 124° 48' W      Maximum longitude (degree, minute) 124° ' W

Map Sheet no. 95F10

17. Applicant

Print name in full      Alan B. Taylor, VP Exploration

Signature: *Original Signed By:* Alan B. Taylor 

Date: April 20, 2004

18. Fees     Type A - \$150.00       Type B - \$150.00

Land use fee: \_\_\_\_\_ hectares @ \$50.00/hectare      \$ \_\_\_\_\_

Assignment fee \$50.00      \$ \_\_\_\_\_ 0.00

Total application and land use fees      \$ 150.00