



Effective June 16, 2006

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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE

Application for: (check one)

☐ New ☐ Renewal ☒ Amendment ☐ Assignment ☐ Cancellation

LICENCE NO:
(for NWE use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Rebecca Hunter, Project Geologist
Cameco Corporation, Exploration Department
2121 11th St West
Saskatoon, SK.
S7M 1J3

Phone: (306) 956-6279
Fax: (306) 956-6390
e-mail: Rebecca_hunter@cameco.com

2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)

Cameco Corporation, Exploration Department
2121 - 11th St West
Saskatoon, Sk.
S7M 1J3

Phone: (306) 956-6200
Fax: (306) 956-6201
e-mail:

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)

The undertaking is uranium mineral exploration, which includes water use at camp (Qamanaarjuk Lake) and water use from nearby lakes to operate 2 diamond drills. The main part of this amendment is to operate 2 drills we require 55 m³ more daily allowable water use.

Figure 1 – Location Map of Projects in Nunavut

Figure 2 – Detailed Location Map of the Aberdeen and Turqavik Projects

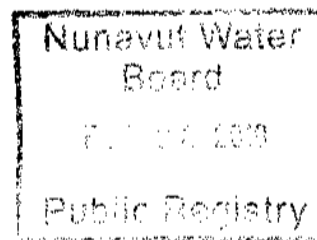
Figure 3 – Detailed Map of Camp Layout

Figure 4 – Map outlining Drilling areas

Figure 5 – Detailed map of Sansa Grid (8 12 drill holes)

Camp Location

Latitude: (64 ° 37 ' 43 " N) Longitude: (97 ° 59 ' 40 " W)
NTS Map Sheet No. 66A/12 Scale: 1:50,000



4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

See Non-Technical Project Proposal and Summary document (attached).

5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")

- ☐ Industrial
☒ **Mining and Milling** (includes exploration/drilling)
☐ **Municipal** (includes camps/lodges)
☐ Power

- ☐ Agricultural
☐ **Conservation**
☐ Recreational
☐ **Miscellaneous** (describe below):

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings

6. WATER USE

- ☒ To obtain water
☐ To cross a watercourse
☐ To modify the bed or bank of a watercourse
☐ Other (describe): _____
- ☐ Flood control
☐ To divert a watercourse
☐ To alter the flow of, or store, water

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

Water use ☐ 100m³/day or less
☒ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)
 Camp: 3 m³/day, Drilling: 2 drills 55 m³/day each. Total 113 m³/day
 Water returned to source
 0 m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- | | | | |
|--|---|---|---|
| <input checked="" type="checkbox"/> Sewage | 0.015 m ³ /day, human solids incinerated, liquids disposed through sumps | <input checked="" type="checkbox"/> Waste oil | 0.001 m ³ /day, from genset and other small engines used to incinerate waste |
| <input checked="" type="checkbox"/> Solid Waste | Max 0.08 m ³ /day, incineration of combustibles and removal of ash to municipal disposal grounds | <input checked="" type="checkbox"/> Greywater | Maximum 3 m ³ /day, from washing and disposed through sumps |
| <input type="checkbox"/> Hazardous | | <input type="checkbox"/> Sludges | |
| <input type="checkbox"/> Bulky Items/Scrap Metal | | <input type="checkbox"/> Other describe): _____ | |

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)

Land Use Permit
DIAND

☒ Yes ☐ No If no, date expected _____

Regional Inuit Association

☒ Yes ☐ No If no, date expected _____

Commissioner

☐ Yes ☐ No If no, date expected _____

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

The main impact of this amendment is an extra 54 m³ of water use per day (if the drill is drilling steady). The other impact is increased drilling so increased ground and helicopter noise, as well as drill setups on the tundra. The cumulative impact of this amendment is more noise to wildlife and, therefore, more potential disturbance. The mitigation measures will be to carry out all wildlife mitigation and monitoring to cover this increased drilling activity. As outlined in our Wildlife Plan (attached), we shut down the drill if caribou come within 2 km of the drill site. We have a wildlife monitor on these sites that indicate to the drill crew if those circumstances arise. Our drill crew is also required to shut down if no monitor is present (night shift), and these circumstances arise. The drill is then shut down until the caribou move out of that range. This instance occurred twice in 2009 where 100's to 1000's of caribou surrounded the drill site and drilling was ceased until the caribou moved away. Those measures would be carried on with the second drill as well. One benefit of the 2nd drill is that the drilling location is in a very small area (500 x 250 m area) so all disturbances will be confined to that one area, which is more easily monitored.

A NIRB Screening 1 and 2 was completed on the original project proposal in 2008.

NIRB Screening ☒ Yes ☐ No If no, date expected _____

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

No

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Forest Helicopters Inc., Kenora, ON (helicopter)
Boart Longyear, Saskatoon, SK (diamond drilling)
SK Construction, Baker Lake, NU (expediting services)
Gebauer and Associates, Vancouver, BC (wildlife monitoring)
MWH Geo-Surveys, Vernon, BC (gravity surveys)
Resistivity Survey Crew (to be determined)
Golder and Associates, Saskatoon, SK (Archaeology Survey)

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

Yearly Wildlife Monitoring 2008 and 2009. Attached.

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Innuinaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee of \$30.00 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☐ Yes ☒ No If no, date expected In March

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWT will consider the application for a five (5) year term)

☐ one year or less (or) ☒ Multi Year

Start Date: June 2010

Completion Date: June 2015 (option for renewal)

Rebecca Hunter
Name (Print)

Project Geologist, NU & NWT
Title (Print)

[Signature]
Signature

Feb 1/2010
Date

For Nunavut Water Board office use only

APPLICATION FEE

Amount: \$

Pay ID No.:

WATER USE DEPOSIT	Amount: \$ _____	Pay ID No.: _____
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