



KENNECOTT CANADA EXPLORATION INC.

Granville Square
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Vancouver, British Columbia
V6C 1S4

Telephone: (604) 669-1880
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November 10, 2003

NUNAVUT WATER BOARD
P.O. Box 119
Gjoa Haven, Nunavut
X0B 1J0

VIA FACSIMILE TO: 1-867-360-6369

original to follow via post

11 pages

Attention: Licensing Administrator

Re: Application for Water Licence Renewal NWB2BR00203, Brodeur Project, Nunavut

Please find attached an application for a water licence renewal for our exploration operations on the Brodeur Project, Nunavut. There have been no changes to our water requirements under this permit.

I have enclosed a renewal application, a copy of the Supplemental Questionnaire, a location map, and an application fee in the amount of \$30.

Our spill plan and project summaries in English and Inuktituk should already be on file with our current permit

If you have any questions or require any further information, please let me know

Yours truly,
KENNECOTT CANADA EXPLORATION INC.

Susan Ball
Susan Ball
Project Geologist: Land, Community and Business

cc. Greg Rogers

INTERNAL	
PC	RB
MA	Nov 12/03
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TA1	
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P.O. Box 119
GJOA HAVEN, NU X0E 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369
KATIMAYINGI

kNK5 wmoEp5 vtmpq
NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN

WATER LICENCE APPLICATION FORM

Nunavut Water
Board
NOV 12 2003
Public Registry

Application for: (check one)

☐ New ☐ Amendment ☒ Renewal ☐ Assignment

LICENCE NO:
(for NWT use only)

7105 JRG

1. NAME AND MAILING ADDRESS OF
APPLICANT/LICENSEE

KENNECOTT CANADA EXPLORATION INC.
354-200 GRANVILLE STREET
VANCOUVER, BRITISH COLUMBIA V6C 1S4

Phone: 604-669-1880 ex1222

Fax: 604-669-5255

e-mail: susan.ball@kenneconn.com

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

same

Phone: _____

Fax: _____

e-mail: _____

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

Latitude: 73° 20' / 73° 40' Longitude: 87° 00' / 89° 00' NTS Map No. 48C/04&05;58D01&08 Scale 1:50,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

See attached map.

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

☐ Industrial

☐ Mine Development

☐ Advanced Exploration

☒ **Exploratory Drilling**

☒ **Remote/Tourism Camps**

☐ Municipal

☐ Power

☐ Other (describe): _____

6. WATER USE

☒ To obtain water

☐ To divert a watercourse

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

7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source)

Water usage would be approximately 2,000L/day. Used water to be put into grey water sump.

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

- ☒ Sewage
☐ Solid Waste
☐ Hazardous
☐ Bulky Items/Scrap Metal
- ☐ Waste oil
☒ Greywater
☒ Sludges
☐ Other (describe): _____

All sewage, drill returns, and grey water will be deposited in sumps.

9. 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 _____ (N2001C0026)

Regional Inuit Association ☒ Yes ☐ No If no, date expected _____ Q03L3C05

Commissioner ☐ Yes ☐ No If no, date expected _____

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

Minimal impact due to low water usage/ no draw-down.

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

11. (Continued)

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)

GREAT SLAVE HELICOPTERS, Yellowknife
PEAK EXPLORATIONS, drilling contractor, BC

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

none to date

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/English Summary of Project ☒ Yes ☐ No If no, date expected on file

Application fee \$30.00 (c/o of Receiver General for Canada) ☒ Yes ☐ No If no, date expected _

15. **PROPOSED TIME SCHEDULE**

☐ Annual (or) ☒ Multi Year

Start Date: Dec 31, 2003

Completion Date: DECEMBER 31, 2005

Susan Ball
Name (Print)

LAND MANAGER
Title (Print)

Susan Ball
Signature

Nov 10-03
Date

For Nunavut Water Board use only

APPLICATION FEE

Amount: \$

Receipt No.:

WATER USE DEPOSIT

Amount: \$

Receipt No.:

A scale bar with a black and white checkered pattern, marked with '0', '5', and '10' in kilometres.



Nunavut, Canada

Date: 11/07/02	Author: GR	Ref: van.00391.
File: Brodeur,Claims,July2002.wor	Figure:	

07 57
F71790



P.O. Box 119

GJOA HAVEN, NT X0E 1J0 kNK5 wmoEp5 vtmpq

TEL: (867) 360-6338

NUNAVUT WATER BOARD

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NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Nunavut Water
Board

NOV 12 2003

Applicant: **KENNECOTT CANADA EXPL. INC.**

Licence No:

NWB2BR0 Public Registry
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Land Manager: Susan Ball Tel: 604-669-1880 ext 222 Fax: 604-669-5255
E-mail: susan.ball@kennecott.com
2. Project Manager: Greg Rogers Tel: 604-669-1880 ext 224 Fax: 604-669-5255
E-mail: greg.rogers@kennecott.com
3. Does the applicant hold the necessary property rights? **YES**
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? **NO**
If so, please provide letter of authorization.
5. Duration of the Project
☐ Annual
☒ Multi Year:
 If Multi-Year indicate proposed schedule of on site activities
 Start: Dec.31, 2003 Completion: Dec.31, 2005

CAMP CLASSIFICATION > see licence **NWD2BR00203**

6. Type of Camp

- ☐ Mobile (self-propelled)
☐ Temporary
☒ Seasonally Occupied: Mining Exploration
☐ Permanent
☐ Other: _____

7. What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel? **Camp population to vary from 2-15 persons**
8. Provide history of the site if it has been used in the past. **No known prior occupancy**

CAMP LOCATION > see licence NWB2BR00203

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp location is 25km upstream on the Jackson River on the Northwestern side of the Brodeur Peninsula, Baffin Island.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

The camp was selected for its proximity to our current work area and the presence of a suitable landing strip. The site was never previously used. No assistance was undertaken.

11. Is the camp or any aspect of the project located on:

☒ Crown Lands Permit Number (s)/Expiry Date: N2001C0026 July03/04
☐ Commissioner's Lands Permit Number (s)/Expiry Date: _____
☒ Inuit Owned Lands Permit Number (s)/Expiry Date: Q03L3C05; June 30/04

12. Closest Communities (distance in km):

ARCTIC BAY 80 km

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

YES

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

No significant impact

PURPOSE OF THE CAMP

15. ☒ Mining
☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)
 (Omit questions # 16 to 21)
☐ Other _____ (Omit questions # 16 to 22)

16. ☐ Preliminary site visit
☒ Prospecting
☒ Geological mapping
☒ Geophysical survey
☒ Diamond drilling

- ☒ Reverse circulation drilling
- ☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ☐ Other: _____

17. Type of deposit:

- ☐ Lead Zinc
- ☒ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

Filtered through sump.

20. Describe what will be done with drill water?

Re-circulated

21. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

MSDS sheets on file with NWB2BRO0203

22. Will any core testing be done on site? Describe.

NO

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.

YES: Spill Plan on file with NWB2BRO0203

24. How many spill kits will be on site and where will they be located?

4: 1 at camp, 1 at fuel cache, 1 at the generator and 1 at drill rig.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

Diesel for drill rig operation

Gasoline for the ATV operation

Jet A for helicopter operation

All fuel and chemicals in sealed containers; all moved with drill from site to site.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Small lakes and creeks; snow melt run-off

27. Estimated demand (in L/day * person):

- Domestic Use: +/- 1000 L/day Water Source: Creek
- Drilling Units: +/- 1,000 L/day Water Source: lakes & creeks
- Other: _____ Water Source: _____

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

Lift pump with mesh screen at intake from nearby creek. No fish life in the creek.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Drinking water will be monitored yearly for potability

30. Will drinking water be treated? How?

No. Bottled water may be flown in for primary drinking water

31. Will water be stored on site?

YES, in 5,000L tank for drill recirculation

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☒ Camp Sewage (Blackwater) sump disposal

☒ Camp Greywater sump disposal

☒ Solid Waste combustibles burned/non-combustibles removed

☒ Bulky Items/Scrap Metal *removed*

☒ Waste Oil/Hazardous Waste *removed*

☒ Empty Barrels/Fuel Drums *removed*

☐ Other:

33 Please describe incineration system if used on site. What types of wastes will be incinerated?

See NWB2BRO0203

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

Resolute, Arctic Bay, Polaris Mine

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).

Three sumps located at the campsite: one from the kitchen and two from the dry. They are all approximately 1m x 1m x 60 cm deep and are covered with ply wood.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

NO

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?

Yes, practice is to use sump disposal

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

Each drill site will have all materials removed after completion of each drill hole. Upon completion of all exploration activities, camp will be removed

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.
Yes, can be provided on request
- ☐ Physical Environment (Landscape and Terrain, Air, Water, etc.)
 - ☒ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
 - ☐ Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
 - ☐ Other:

REGULATORY INFORMATION

40. Do you have a copy of
- ☒ Article 13 - Nunavut Land Claims Agreement
 - ☐ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
 - ☐ NWB - Interim Rules of Practice and Procedure for Public Hearings
 - ☐ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
 - ☐ NWTWB - Guidelines for Contingency Planning
 - ☐ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
 - ☐ Fisheries Act - s.35
 - ☒ RWED - Environment Protection- Spill Contingency Regulations
 - ☒ Canadian Drinking Water Quality Guidelines
 - ☐ Public Health Act Camp Sanitation Regulations
 - ☐ Public Health Act Water Supply Regulations
 - ☒ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.