ᓄᓇᕗᒥ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖏᑦ/NUNAVUT IMPACT REVIEW BOARD/NUNAVUTMI KANOGILIVALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT

February 25, 2000

To: Rita Becker
Licensing Administrtor
Nunavut Water Board
Gjoa Haven, NU

Re: Exploration Rocking Horse Area
NIRB: 00EN071 NWB: NWB2TAK00

Enclosed is the completed NIRB Screening Decision Report on a water permit application for exploration in the Rocking Horse (Takajuak Lake) Area in the Kitikmeot.

NIRB has screened this application for ecosystemic and socio-economic impacts of the proposal.

NIRB's indication to the Minister is: 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

Please contact me at (867) 983-2593 if you have any questions about the Screening Report.

Yours truly,

Gladys Joudrey
Environmental Assessment Officer

P.O. Box 2379 Cambridge Bay, NT /EKALUKTUTIAK, NUNATIAMI X0E 0C0 • Phone/HIVAYAOTA: (867) 983-2593 • Fax/FAX-KOT: (867) 983-2594

SCREENING DECISION

Date: February 25, 2000

Mr. Thomas Kudloo
Chairperson, Nunavut Water Board
Gjoa Haven, NT

Dear Mr. Kudloo:

RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on an Application:
NIRB: 00EN071 DIAND: N2000C0004 NWB: NWB2TAK00
Exploration Rocking Horse Area
Kennecott Canada Exploration Inc.

Authority:

Section 12.4.4 of the Nunavut Land Claim Agreement states:

Upon receipt of a project proposal, NIRB shall screen the proposal and indicate to the Minister in writing that:

a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;
b) the proposal requires review under Part 5 or 6; NIRB shall identify particular issues or concerns which should be considered in such a review;
c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or
d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

Primary Objectives:

The primary objectives of the Nunavut Land Claims Agreement are set out in section 12.2.5 of the Land Claims Agreement. This section reads:

In carrying out its functions, the primary objectives of NIRB shall be at all times to protect and promote the existing and future well-being of the residents and communities of the Nunavut Settlement Area, and to protect the ecosystemic integrity of the Nunavut Settlement Area. NIRB shall take into account the well-being of the residents of Canada outside the Nunavut Settlement Area.

The decision of the Board in this case is 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

P.O. Box 2379 Cambridge Bay, NT EKALUKTUTIAK, NUNATIAMI X0E 0C0 • Phone/HIVAYAOTA: (867) 983-2593 • Fax/FAX-KOT: (867) 983-2594

Reasons for Decision:

NIRB's decision is based on specific considerations that reflect the primary objectives of the Land Claims Agreement. Our considerations in making this decision included:

- the impact of drilling activities on the ecosystem;
- impact to water quality, aquatic habitat and wildlife and fish populations from chemicals, drill waste, drill fluids and potential fuel spills;
- the movement of vehicles and equipment on terrain;
- the impact of noise from helicopter and drilling activities and their disturbance to wildlife;
- the impact to archaeological sites or cultural landmarks in the area;
- the impact of all proposed activities on wildlife;
- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these on the ecosystem;
- clean up/restoration of drilling locations upon abandonment; and
- the cumulative effects from all the human usage activities that are occurring in the area.

Terms and Conditions:

Drill Sites

1. The Permittee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
2. The Permittee shall conduct any lake-based winter drilling, in accordance with *the Interim Guidelines for On-Ice drilling*.
3. The Licensee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with *Guidelines for Total Suspended Solids* contained in the *Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 - Freshwater Aquatic Life* (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
4. The Permittee shall ensure that all drill cuttings are removed from ice surfaces.
5. The Permittee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
6. The Permittee shall ensure that any drill cuttings and waste water that cannot be re-circulated be removed from the site or disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
7. The Permittee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
8. The Permittee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
9. The Permittee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings is restricted to the area of the sump and the ground prepared for revegetation upon abandonment.

10. The Permittee shall, where flowing water from bore holes is encountered, plug, the bore hole in such a manner as to permanently prevent any further outflow of water. If an artesian occurrence shall be reported to the Nunavut Water Board and Land Use Inspectors within 48 hours.

Environmental

11. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.
12. The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.
13. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.
14. The Permittee shall be required to undertake any corrective measures in the event of any damage to the land as a result of the permittee's operation.
15. The Permittee shall not use any equipment except of the type and size, and number that is listed in the accepted application.

Fuel and Chemical Storage

16. The Permittee shall ensure that fuel storage containers are not located within thirty-one (31) metres of the ordinary high water mark of any body of water.
17. The Permittee shall ensure that any chemicals, fuels or wastes associated with the project do not spread to the surrounding lands or enter into any water body.
18. The Permittee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
19. The Permittee shall seal all container outlets except the outlet currently in use.
20. The Permittee shall mark all fuel containers with the Permittee's name.
21. The Permittee shall dispose of all combustible waste petroleum products by incineration or removal.
22. The Permittee shall immediately report all spills of petroleum and hazardous chemicals to the twenty four (24) hour spill report line at (867) 920-8130 to NWB and to the Land Use Inspector.

Waste Disposal

23. The Permittee shall not discharge or deposit any refuse substances or other waste materials in any body of water, or on the banks thereof, which will impair the quality of the waters of the natural environment.
24. The Permittee shall not locate any sumps or areas designated for waste disposal within thirty (30) metres of the ordinary high water mark of any body of water, unless otherwise authorized.
25. The Permittee shall construct a sump to contain all greywater discharged and shall ensure drainage is away from any waterbody.
26. The Permittee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the permit.

27. The Permittee shall incinerate all combustible and food wastes daily in a container acceptable to the Land Use Inspector, to eliminate potential for wildlife problems created by the attraction of wildlife to garbage.
28. The Permittee shall keep all garbage and debris in a covered metal container until disposed of.
29. The Permittee shall ensure that all non-combustible wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
30. The Permittee shall not bury any metal wastes.

Wildlife

31. The Permittee shall ensure that there is no damage to wildlife habitat in conducting this operation.
32. The Permittee shall not feed wildlife.
33. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
34. The Permittee shall cease activities that may interfere with migration or movement of caribou such as airborne geophysics surveys or drilling activities until the caribou have vacated the area.
35. The Permittee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
36. The Permittee will avoid by at least 1.5 km nesting raptors between April 15 and September 1st. The nests will not be approached while on foot or in a vehicle.
37. The Permittee shall ensure compliance with Section 36 of the *Fisheries Act* which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
38. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the *Fisheries Act.* No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.
39. The Permittee shall not obstruct the movement of fish while conducting the land use operation.
40. The Permittee use the latest bear detection and deterrent techniques to minimize man-bear interactions.

Archaeological Sites

41. The Permittee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Prince of Wales Northern Heritage Centre (PWNHC) in attached letter.

Attachments

42. The Permittee shall refer to the attached Department of Sustainable Development comments and recommendations and the Fisheries and Oceans letter of advice addressed to the Permittee.

Reclamation

43. The Permittee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
44. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
45. The Permittee shall undertake ongoing restoration for any land or improvements, which are no longer, required for the Permittee's operation on the land.
46. The Permittee shall plug or cap all bore holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

Other Recommendations

1. NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
2. NIRB advises the proponent to consult with local residents regarding their activities in the region.
3. The Permittee is advised to document wildlife sightings in a consistent manner.
4. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.
5. The Environmental Protection Branch (DOE), Department of Fisheries and Oceans (DFO), Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB) should be advised of any material changes to plans or operating conditions associated with the project.

Validity of Land Claims Agreement

Section 2.12.2
Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated FEB. 25/00 at Cambridge Bay, NT

Larry Pokok Aknavigak, Chairperson

Attachment: NIRB Screening Form
c.c DIAND Land Administration, Yellowknife, NT

NUNAVUT IMPACT REVIEW BOARD
SCREENING FORM

1. General File Information on Screening

NIRB #: 00EN 071 (yy-xxx) Authorizing Agency #(s): INAC P&DTN (permit or licence #)

N2012C0004

Project Title: Mineral Exploration Rockinghorse
Title of Project

Proponent: Kennecott Canada Exploration Inc.
Company/Applicant

Proponent's Address: #354-200 Granville St.

Vancouver, BC

V6C 1S4
Full Address

Contractor: _____
*Company persons doing the work if different from the proponent

address and contact numbers

Proposed Starting Date of Activity: March 15, 2000
(yyyy-mm-dd)

EA Starting Date: January 21, 2000
Date application accepted (yyyy-mm-dd)

Date Application Referred for Comments: January 25, 2000
(yyyy-mm-dd)

Deadline for Comments: February 14, 2000
(yyyy-mm-dd)

NIRB's EA Indication: 12.4.4 (C)

Date of Indication: February 25, 2000
(yyyy-mm-dd)

Project Cancelled: Yes, Give Reason _____

Comments: _____

ᐅᓪᓗᖓ/P.O. Box 2379 Cambridge Bay, NT /EKALUKTUTIAK, NUNATSIAVUT ᑭᓯᐊᓂᖓ • ᑎᓴᒪᑎᑦᓯᓂᖓ/Phone/HIVAYAOTA: (867) 983-2593 • ᐊᒥᓱᓕᕆᔨᒃᑯᑦ/Fax: FAX-KOT: (867) 983-2594

2. Authorizing Agencies

Authorizing Agency(ies): Kivalliq I.A., Kitikmeot I.A., QIA, NWB, NWMB, DIAND, DFO, DOE, NRI, RWED, Other: ______

Authorizing Agency Contact Person: [illegible]
(office where project file is located, contact person, number)

Land Status: Inuit Owned ✓ Crown ✓ Commissioner's ____ Marine Areas ____

Type of Application: water licence
(e.g. water licence, land use permit, quarry permit, research permit, lease, reserve)

Type of Approval being sought: Renewal
(e.g. new, renewal, amendment, cancellation)

Other required approvals, permits or licences: land use permit
(e.g. water licence, land use permit, quarry permit, lease, reserve)

Present Authorizations (active): ______
(file number)

Previous Authorizations (inactive/expired) ______
(file number)

3. Project Location

Kivalliq ____ Kitikmeot ✓ Baffin ____

Land Use Planning Region: West Kitikmeot
(e.g. West Kitikmeot, North Baffin, South Baffin, Kivalliq)

Geographic Place Name: [illegible]
(nearest place name or geographic feature)

Local/Traditional Name ______

National Topographic Sheet (NTS) Number: [illegible] Scale: [illegible]

Latitude/Longitude: [illegible]
(degrees, minutes seconds)

Drainage Region and Watershed [illegible] Lake
(nearest creek, river or lake system)

Nearest Settlement: Bathurst Inlet, [illegible]

Adjacent Settlement/Out-post camps: ______

Special Designation: No
(Yes/No – e.g. Heritage River, Wildlife Reseserve, Park)

Does the project have Nunavut transboundary implications? Yes ____ No ✓

If yes, what additional procedures/contacts are needed? ______

4. Project Description and Assessment

Physical Work, Activity(ies): exploration, drilling, camp
(drilling, construction, camp, research, water works, installation, modification, maintenance)

Multiple Activities: Yes ✓ No_____

Project Category Code: Point Multiple Points Linear Area

Phase of Project: [illegible]
(exploration, bulk sampling, development, operations, decommissioning, abandonment restoration)

Project Description Summary (non-technical):

(duration of project, size of project, number of personnel on site, related physical activities, machinery used, fuels and chemical use and storage, associated infrastructure, methods of transportation, amount and source of resources needed eg. Gravel)

Attach Project Overview (English and Inukitut)

Alternatives Considered:

(list all alternatives to the project and or components of the project to avoid unnecessary amendments. (e.g. alternatives to location of ice road or camp logistics)

5. The Proponent's Public Consultation Process

Description of Proponent's Public Consultation Process

have consulted with the community of Kugluktuk.

Did proponent make use of traditional knowledge? Yes___ No___

Was information available in the community's preferred language? Yes___ No___

In NIRB's opinion, was the proponent's public consultation adequate? Yes___ ✓ No___

If no, explain why the proponent's consultation program was found deficient.

KENNECOTT CANADA EXPLORATION INC.

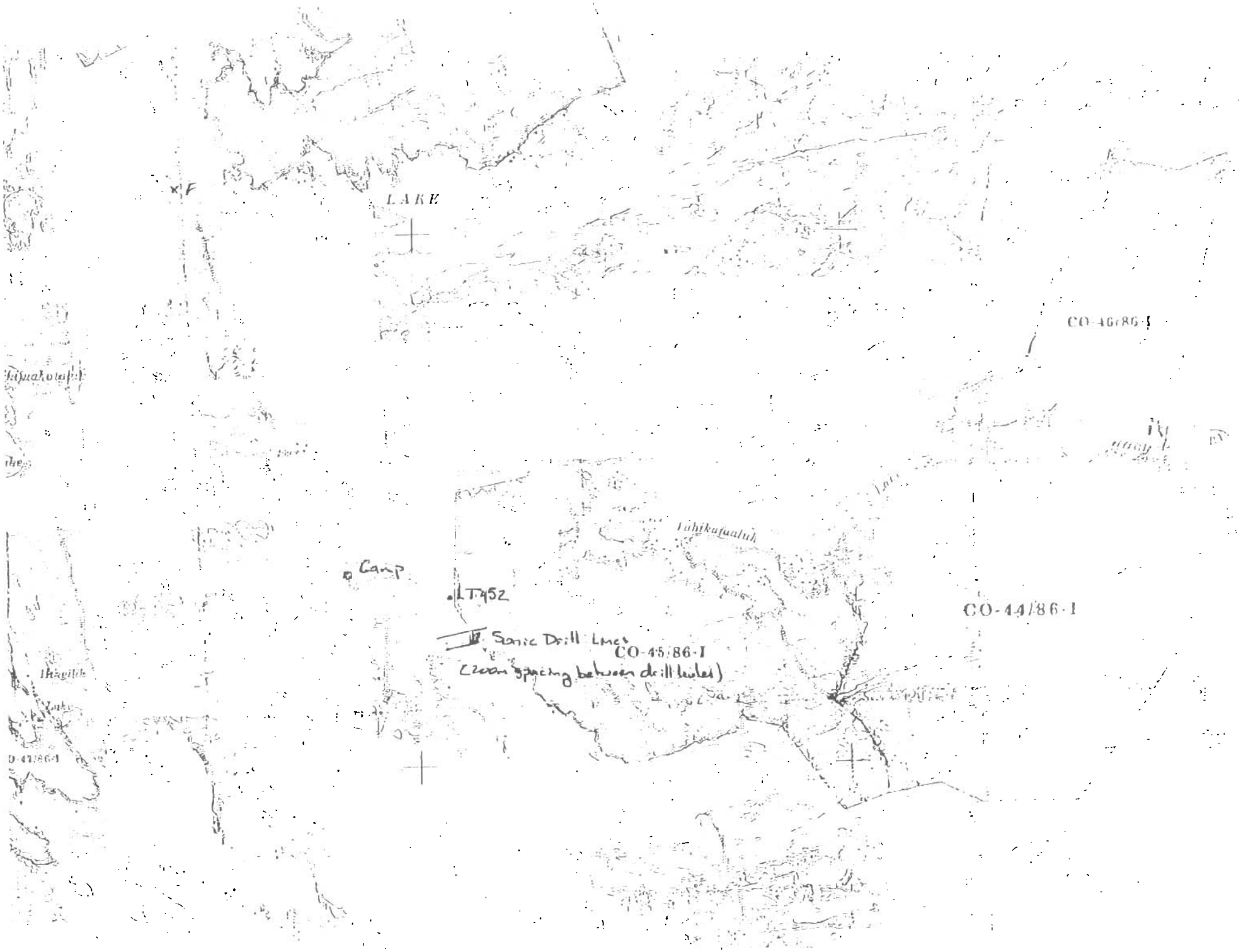
2000 FIELD EXPLORATION PROGRAMS

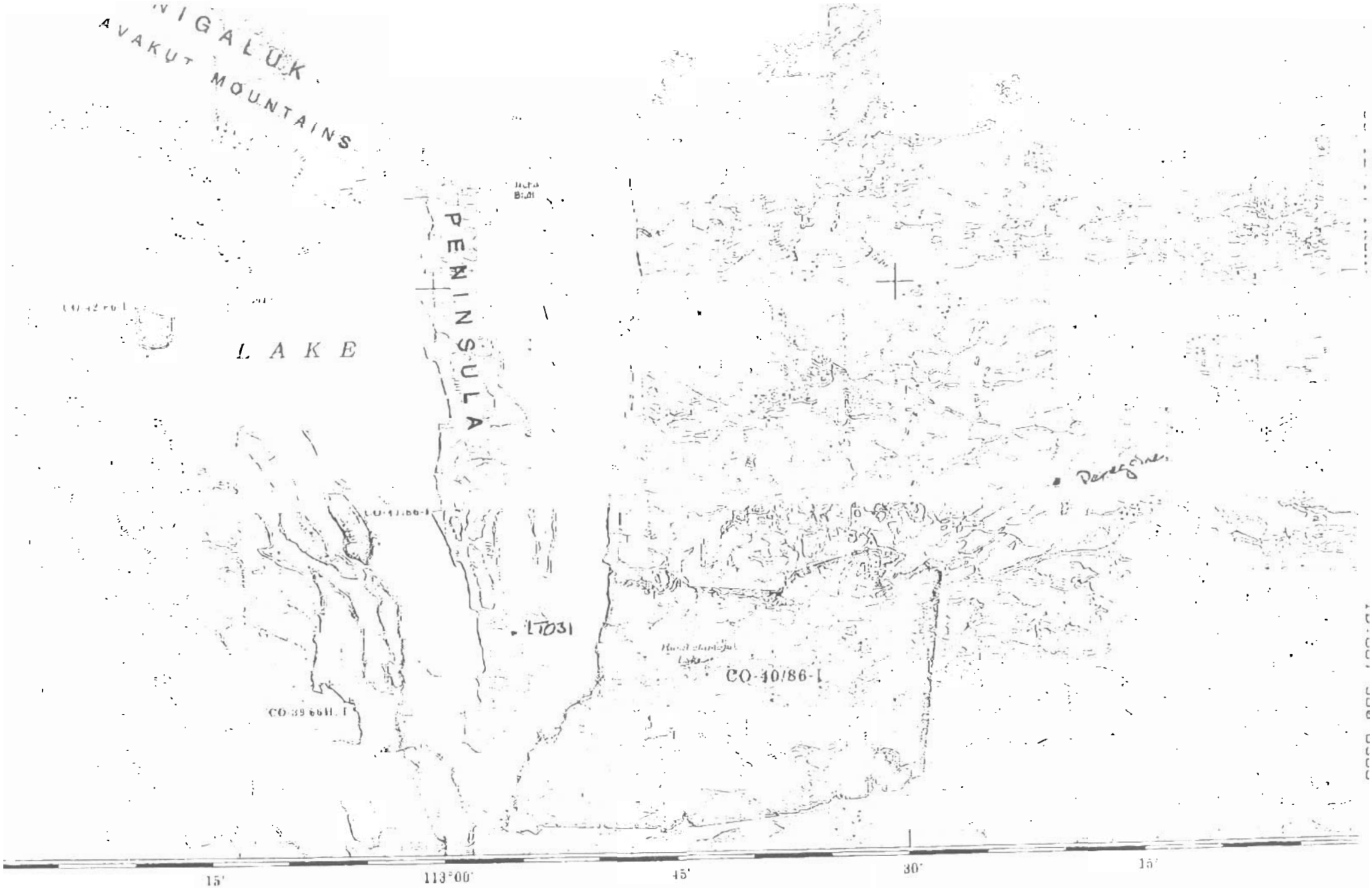
Kennecott Canada Exploration Inc. (Kennecott) plans to carry out mineral exploration surveys for diamonds in Nunavut from March 15 through to the end of the summer field season in 2000. The specific properties are called Hood River and Rocking Horse. The Hood River mineral claims are located surrounding the Hood River, approximately 120km due west of Bathurst Inlet. The Rocking Horse mineral claims are north and east of Takajuak Lake, approximately 200km west and southwest of Bathurst Inlet. Kennecott has concession agreements on parts of Inuit Owned Land parcels CO-20 and CO-44. The camps for the respective properties are located just west of the northwestern corner of CO-21 (Bigfoot Camp, Hood River) and at the northern end of Napaktulik Lake (Tak Camp, Rocking Horse).

In 2000, Kennecott will conduct continuing surface exploration: geochemical till sampling and surface geophysical surveys to locate anomalies related to diamond exploration. The company is also planning sonic and core drilling in areas where the surface surveys have indicated that diamond bearing rocks may be present. Results of these surveys are reported to NTI and DIAND annually. The field survey crews will consist of a Kennecott project geologist with seasonal field assistants. The field assistants will include Nunavut residents from Kugluktuk and perhaps other communities. Many of the Inuit field assistants hired in 1999 may return to work for Kennecott in 2000.

Kennecott has applied for or received approval from both the Kitikmeot Inuit Association and DIAND for Land Use Licences that will cover all surface work and drilling.

Kennecott is committed to developing and maintaining excellent relationships with the communities affected by our exploration activities. Our company also has strict environmental policies for our own employees as well as contractors who work for us, and protection of the land is an essential part of our exploration programs.


LAKE
CO-46/86-1
Tuhikutualuk
Camp
LT-452
Sonic Drill Lines
(200m spacing between drill holes)
CO-45/86-1
CO-44/86-1



NAPAKTULIK LAKE

DISTRICT OF MACKENZIE DISTRICT DE MACKENZIE

NORTHWEST TERRITORIES TERRITOIRES DU NORD-OUEST

ÉTABLIE PAR LE CENTRE CANADIEN DE
MINISTÈRE DE L'ÉNERGIE DES MINES ET DES
TIRÉE DE CARTES À 1:50 000. RENSEIGNEMENT
OU INDIQUÉS DANS LE DIAGRAMME PUBLIÉE EN

CES CARTES SONT EN VENTE AU BUREAU
CANADA, MINISTÈRE DE L'ÉNERGIE, DES MINE
SOURCES, OTTAWA OU CHEZ LE VENDEUR LE

6. Description of the Environment

Description of Biophysical Environment

Peregrine falcons and gyrfalcons nest on the numerous steep cliffs in the area.

Each year during late July and early August a large number of barren-ground caribou migrate westward in a movement that take them into the wintering area in the tree line.

Description of Socio-Economic and Cultural Environment

Extensive mineral exploration in the region. Area forms a major travel corridor between Coppermine and Contwoyto Lake although many of those who formerly lived in the area now reside in Coppermine overland travel to the area is still common. Barren-ground caribou are often hunted in spring and fall and occasionally in winter. Arctic fox are trapped in winter and wolves and wolverine are also taken.

7. NIRB's Consultation Process

Date application referred for comments: January 25, 2000 (yyyy-mm-dd)

Deadline for comments: February 14, 2000 (yyyy-mm-dd)

Distribution List:	Contact Person:	Date comments received
NUNAVUT:		
✓ NTI		
___ QIA		
___ Kivalliq I.A.		
✓ Kitikmeot I.A.		
✓ NPC		
___ NWB		
___ NWMB		
___ RWO		
✓ Inuit Heritage Trust		
✓ Community(s)		
Hamlet ___		
HTO ___		
___ Other? ___		
FEDERAL:		
✓ DIAND	[illegible]	Feb 16, 2000
✓ DFO	[illegible]	Feb. 14, 2000
✓ DOE	[illegible]	Feb 14, 2000
___ Heritage Can.		
___ Natural Resources		
CCG Other? (eg. Health DOT, DND)		
GNWT:		
✓ ~~DRWED~~ [illegible]	Chris [illegible]	Jan 5, 2000
✓ Transport		
✓ MACA		
✓ PWNHC	[illegible]	Feb 9, 2000
✓ Other? (eg. Health, Soc.Serv., ECE)		
TRANSBOUNDARY PARTIES		
___		
OTHER PARTIES		
___		

Identification of Project Activities and Environmental Effects

Identify all activities of the project under screening and their potential adverse environmental effects.

Project Activities

(✓ check all the items appropriate to this project)

- __ water
  - __ construction
  - __ abandonment/removal
  - __ modification e.g., widening
- __ automobile, aircraft or vessel movement
- __ blasting
- ✓ burning
- __ burning
- __ channelling
- __ construction
  - __ building
  - __ shed, warehouse
  - __ landing strip
- __ cut and fill
- __ removal of vegetation
- __ dams and impoundments
  - __ construction
  - __ abandonment/removal
  - __ modification
- __ ditch construction
- __ drainage alteration
- __ drilling other than geoscientific
- __ ecological surveys
- __ excavation
- __ explosive storage
- ✓ fuel storage
- __ garbage
  - __ disposal of hazardous waste
  - ✓ disposal of sewage or grey water
  - ✓ disposal of solid waste
- ✓ geoscientific sampling
  - __ trenching
  - ✓ diamond drill
  - __ borehole core sampling
  - __ bulk soil sampling
- __ quarry
- __ hydrological testing
- __ river, stream, lake crossing/bridging
- __ site restoration
  - __ fertilization
  - __ grubbing
  - __ planting/seeding
  - __ scarification
  - __ spraying
  - __ recontouring
- __ soil testing
- __ topsoil, overburden or soil
  - __ fill
  - __ disposal
  - __ removal
  - __ storage
- __ tunnelling, underground
- __ other, explain _____

__ possibility for accidents or malfunctions. Describe.

Fuel Spills

_____

__ effects of environment on project (e.g., flooding). Describe _____

_____

Project Effects

(✓ check all the items appropriate to this project)

Directly-related Socio-Economic & Cultural Effects:

1. __ impact on hunting / trapping / fishing
2. __ impact on: __ women
   - __ men
   - __ children
   - __ elders
3. __ impact to traditional use or traditional use area
4. __ impact to outfitters
5. __ impact on recreational use
6. __ impact on family structure
7. __ impact to community health
8. __ change in community economics
9. __ change in community housing or infrastructure
10. __ impact to industry
11. __ change in regional transportation
12. __ impact to archaeological or cultural landmarks
13. __ impact on beauty of the landscape
14. __ other, explain _____

Biophysical Environment Effects

15. __ deposit into surface or ground water
16. __ deposit to marine environment
17. __ change in surface or ground water flow
18. __ change in water temperature
19. __ change in drainage pattern
20. __ change in air quality
21. __ change in air flow
22. __ micro-climate change
23. __ ice fog
24. ✓ change in ambient noise level
25. ✓ deposit onto ground surface
26. __ change in slope stability
27. __ change in soil structure
28. __ alteration of permafrost regime
29. __ destabilization, erosion
30. __ soil compaction
31. __ change in access to renewable resources
32. __ depletion of non-renewable resource
33. __ removal of rare/endangered plant species
34. __ introduction of species
35. __ toxin, heavy metal accumulation
36. __ removal of rare/endangered wildlife species
37. __ change in wildlife health
38. ✓ impact to large mammals
39. ✓ impact to small mammals
40. __ impact to fish
41. __ impact to birds
42. __ impact to other wildlife
43. __ impact in a calving, nesting, staging or spawning area
44. __ removal of wildlife buffer zone
45. __ change in wildlife habitat/ecosystem
46. __ other, explain _____

Describe biophysical and socio-economic and cultural effects identified from check-list.

Environmental Effect	Describe
#21	Change in noise with activities and aircraft
#25	grey water, sewage and drill cuttings onto ground surface
#38, 39	impact to mammals from noise and attraction of wildlife to garbage

9. **Cumulative Effects: Identification of Other Resources Used in the Area.** Identify past, current and future (pending applications) physical works and activities in the area (for the proponent, other proponents and nearby communities) and their potential adverse environmental effects.

Other Resource Uses

(√ check all the items appropriate to this project)

- √ harvesting
  - √ marine mammals
  - √ land mammals
  - __ fur bearers
  - __ birds
  - __ shellfish
  - __ plants
  - __ berries
  - √ fish
- √ mining
  - √ exploration
  - __ open pits
  - __ underground
  - __ off-shore
- __ mineral processing
- __ industry _____ (type)
- __ quarries
  - __ carving stone
  - __ aggregate
- __ transportation/ communications
  - __ airport / landing strip
  - __ roads/access routes
  - __ shipping
  - __ channels/canal
  - __ telephone lines, satellite dishes, cables
  - __ beacons
- __ waste disposal (solid, liquid or gas?)
- __ energy project
  - __ hydro
  - __ pipeline
  - __ transmission line
- √ other water licenses, permits, leases
- √ lands
  - √ Inuit owned
    - -surface rights
    - √ -sub-surface rights
  - √ Crown
  - __ Commissioner's
  - __ Marine Areas
- __ other private lands held under tenure
- __ heritage sites or archaeological sites
- __ recreation (eg. cabins, tent frames)
- __ tourism
- __ municipal (construction)
  - __ commercial
  - __ built structures
  - __ infrastructure
- __ agriculture
- __ forestry
- __ other, explain _____

Effects from Other Resource Uses

(√ check all the items appropriate to the scope of this project)

Directly-related Socio-Economic & Cultural Effects:

1. __ impact to hunting / trapping / fishing
2. __ impact on: __ women
   - __ men
   - __ children
   - __ elders
3. __ impact to traditional use or traditional use area
4. __ impact to outfitters
5. __ impact on recreational use
6. __ impact on family structure
7. __ impact to community health
8. __ change in community economics
9. __ change in community housing or infrastructure
10. __ impact to industry
11. __ change in regional transportation
12. __ impact to archaeological or cultural landmarks
13. __ impact on beauty of the landscape
14. __ other, explain _____

Biophysical Environment Effects

15. __ deposit into surface or ground water
16. __ deposit to marine environment
17. __ change in surface or ground water flow
18. __ change in water temperature
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39. __ impact to small mammals
40. __ impact to fish
41. __ impact to birds
42. __ impact to other wildlife
43. __ impact in a calving, nesting, staging or spawning area
44. __ removal of wildlife buffer zone
45. __ change in wildlife habitat/ecosystem
46. __ other _____

10. Cumulative Environmental Effects

Based on a comparison of effects identified in #8 and #9.

Matching Number's	Description of Cumulative Environmental Effects

NO Will the project make large demands on non-renewable energy sources?

NO Will the project encourage further developments within the current project or other developments (other similar projects, energy development, generation, petroleum development and extraction, the building of additional roads)? Possibly

NO Will the project encourage a "boom-bust" economy over an economy of permanence?

NO Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?

NO Will the project have an effect on the water quality of the watershed?

NO Will the project have a significant effect on existing land uses?

11. Mitigation Measures

For each environmental effect identified in #8, #9 and #10, describe the required mitigation measures.

Number's as identified in #8, #9 & #10	Description of Mitigation Measures
	See Screening Decision Report

12. Significance

After taking into account the mitigation measures identified in #11, are any of the residual, adverse environmental effects significant?

___ Yes ___ No

If yes, identify which one/s and proceed to #13; if no proceed to # 14.

Number/s ____ ____

____ ____

____ ____

____ ____

13. Likelihood of Occurrence

Of the significant, residual, adverse environmental effects identified in #12, are any likely to occur?

___ Yes ___ No

Number/s ____ ____

____ ____

14. Information Sources

What sources of information were used in the screening process?

____ local knowledge
____ traditional ecological knowledge
____ land use plans (and draft land use plans)
____ authorizing agencies' data
____ departmental or agency opinions
____ maps
____ photos
____ reports (scientific, economic, social, or anthropological, archival or historical information)
____ Nunavut Environmental Database (NED)
____ personal communications
____ Project Registry (~~NPC~~) NIRB
____ previous similar projects
____ service organizations
____ media monitoring
____ experts
____ other _____

For information sources identified above, provide contact person and/or information location (for future follow-up): _____

15. Staff Recommendations

Staff Recommendations: (include rationale)

The project proposal should have little or no environmental impact.

Prepared By: Charles [illegible] (Screener) Date: February 21, 2000 (yyyy-mm-dd)

16. NIRB'S Principles

__ The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.

__ The project may have significant adverse socio-economic effects on northerners.

__ The project will cause significant public concern.

__ The project involves technological innovations for which the effects are unknown.

__ The project **does not** have significant effects or concerns.

17. Indication to the Minister (12.4.4)

N.B. Transfer this information to Box 1: "EA Indication" and "Date of Indication".

___ a) the proposal may be processed without a review under Part 5 or 6: NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

___ b) the proposal requires review under Part 5 or 6: NIRB shall identify particular issues or concerns which should be considered in such a review;

___ c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or

___ d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

18. *Terms and Conditions*

If the determination is 12.4.4 (a), NIRB's terms and conditions include those listed in the Screening Decision Report.

Specific Terms and Conditions to note include

19. **Authorization**

Approved By: _____ Date: 2000/02/25
(NIRB Decision Maker) (yyyy-mm-dd)

20. **Follow-up / Monitoring**

Minister's Determination

___ Minister agreed with NIRB's indication.
Action? _____

___ Minister varied NIRB's indication.
Action? _____

___ Minister rejected NIRB's indication
Action? _____

If applicable,
___ Is a follow-up/monitoring program required? If yes, give details.

___ Has screening report information been added to NIRB's GIS/Calyx system?

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: ___Exploration Rocking Horse Area_____
Proponent: _Kennecott Canada Exploration Inc._____
Location: _Kitikmeot Region ____, NIRB#: __00EN071_____
Comments Due By: _____February 14, 2000_____

Indicate your concerns about the project proposal below:

- ☐ no concerns
- ☐ water quality
- ☐ terrain
- ☐ air quality
- ✔ wildlife and their habitat
- ☐ marine mammals and their habitat
- ☐ birds and their habitat
- Other: ✔ _____
- ☐ fish and their habitat
- ☐ heritage resources in area
- ☐ traditional uses of land
- ☐ Inuit harvesting activities
- ☐ community involvement and consultation
- ☐ local development in the area
- ☐ tourism in the area
- ☐ human health issues

Please describe the concerns indicated above:

- The proponent should be made aware that this area receives considerable carnivore movement-grizzly bears, wolves and wolverines and should take all necessary steps to avoid camp attractant problems and problem bear kills. The proponent is encouraged to contact the local Renewable resource Officer (Andy McMullen) in order to discuss this issue.
- See attached.

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES ✔ NO ☐
Any additional comments?

Name of person commenting: __Sustainable Development incorporates a team approach when commenting on NIRB screenings and Reviews. No one person comments for the Department.
Position:_____Organisation:___Sustainable Development _
Signature:_____Chris Nichols _____ Date: January 5, 2000

DEPARTMENT OF SUSTAINABLE DEVELOPMENT RECOMMENDATIONS FOR LAND USE APPLICATION 00EN064

Environmental Protection

Spill Contingency Plan

The proponent is referred to DSD's *Spill Contingency Planning and Reporting Regulations* and *A Guide to the Spill Contingency Planning and Reporting Regulations.*

Fuel Storage

To prevent spreading in the event of a spill, fuel stored in drums should be located, whenever practical, in a natural depression a minimum distance of 90 feet from all streams, preferably in an area of low permeability. All fuel storage containers should be situated in a manner that allows easy access and removal of containers in the event of leaks or spills. Large fuel caches in excess of 20 drums, should be inspected daily.

Chemical Storage

All chemicals should be stored in a safe and chemically-compatible manner a minimum of 90 feet from all bodies of water. The applicant should be required to remove unused chemicals for reuse or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as able to deal with any accidents or spills.

Location of Hazardous Materials

Hazardous materials stored on-site should be marked so they will be visible under all conditions, in all seasons. This recommendation is intended to help prevent possible injuries to camp personnel and/or damage to the containers. Unless otherwise specified by the land use inspector or licence -issuing agency, all hazardous materials should be removed from the site upon completion of the activity. The proponent is referred to DSD's *Environmental Guideline for the General Management of Hazardous Waste.*

Waste Oil/Waste Fuel Disposal

Waste oil and waste fuel should be removed and returned for recycling when the land use activity is completed. Alternative methods of disposal that provide and equivalent level of environmental protection will be considered on a case by case basis.

Used Drums

Used fuel and oil drums should be removed from the site, returned for deposit, or reused.

Contaminated Soils

Soil contaminated by fuel (e.g., soils under an old storage tank) should be treated on site or removed to an approved disposal site and replaced with new soil. The proponent is referred to DSD's *Environmental Guideline for Site Remediation*.

Winter Roads

Existing winter road routes and trails should be used whenever possible, to avoid unnecessary land clearing and disturbance.

Drill Sumps

The sumps should only be used for inert drilling fluids, not any other materials or substances. The sumps should be properly closed out.

Garbage Disposal

Garbage should be removed from the camp periodically; alternatively, all combustible wastes can be incinerated on site and non-combustibles collected and removed upon termination of the activity or periodically.

Incineration

For camps of less than 10 people, it is recommended that a draught barrel be employed to burn wastes. A draught barrel is essentially a 45 gallon drum or equivalent, with a hole in the bottom to facilitate air intake, and is closed at the top with a lid and a chimney for the exhaust. EPS does not consider burning wastes in a draught barrel to be true incineration, however, for small camps, this is an acceptable means to deal with camp wastes. The draught barrel should be operated so that a high temperature burn is maintained at all times. This will promote complete combustion and eliminate pollutant and odor concerns.

For camps of more than 10 people, it is recommended that a forced air incinerator be used to manage wastes. Once again maintaining a high temperature burn to reduce wastes is imperative.

Kitchen wastes, cardboard, paper products, packaging and untreated wood wastes are suitable for burning in a draught barrel and a forced air incinerator. Industrial wastes and non combustible wastes should be removed from the camp and disposed of at a designated landfill or other approved facility. Under no circumstance should hazardous wastes be managed through burning or incineration.

For camps of greater than 50 people, it is recommended that a municipal waste incinerator, which produces emissions that meet CCME air quality guidelines, be used to dispose of camp wastes. The manufacturer will specify operating conditions and types of wastes that can be disposed of in the incinerator in order to meet the specified CCME standards. It is recommended that municipal waste incinerators be operated to meet manufacturer specifications.

The aforementioned comments are a brief thumbnail sketch of what DSD suggests that a proponent should be implementing to mitigate any damage or alterations to the environment during the course of their proposed activities. The proponent is referred to the Government of Nunavut's acts, regulations and environmental guidelines for a details.

Acts, Regulations and Environmental Guidelines

The Environmental Protection Service, Department of Sustainable Development derives its regulatory authority and operational mandate from the Government of Nunavut's *Environmental Protection Act* (EPA). A number of regulations and guidelines have been developed and adopted under the EPA; some, or all of which might prove to be of assistance to a proponent in planning their activities. The guidelines are listed here for the information of the proponent and are available to the public at any DSD office in Nunavut or from DSD's Headquarters office located at:

Department of Sustainable Development
Environmental Protection Service
Government of Nunavut
Box 1340
Iqaluit, NU
X0A 0H0
(867) 979-5119
e-mail: reno@gov.nu.ca or ebaddaloo@gov.nu.ca

Acts and Regulations

{PRIVATE }Environmental Protection Act{tc \l 5 "Environmental Protection Act"}

Environmental Protection Act: Simplified Summary

Environmental Rights Act

{PRIVATE }Spill Planning and Reporting Regulations{tc \l 5 "Spill ContingencyPlanning and Reporting Regulations"}

{PRIVATE }A Guide to Spill Contingency Planning & Reporting{tc \l 5 "A Guide to Spill Contingency Planning & Reporting"}

{PRIVATE }Asphalt Paving Industry Emission Regulations{tc \l 5 "Asphalt Paving Industry Emission Regulations"}

{PRIVATE }Pesticide Act{tc \l 5 "Pesticide Act"}

{PRIVATE }Pesticide Regulations{tc \l 5 "Pesticide Regulations"}

Used Oil and Waste Fuel Management Regulations (undergoing completion; proposed for June 2000)

{PRIVATE }Environmental Guidelines{tc \l 5 "Environmental Guidelines"}

{PRIVATE }Dust Suppression{tc \l 5 "Dust Suppression"}

{PRIVATE }General Management of Hazardous Waste{tc \l 5 "General Management of Hazardous Waste"}

{PRIVATE }Industrial Projects on Commissioner's Lands{tc \l 5 "Industrial Projects on Commissioner's Lands"}
{PRIVATE }{tc \l 5 ""}
{PRIVATE }Industrial Waste Discharges{tc \l 5 "Industrial Waste Discharges"}

{PRIVATE }Ozone Depleting Substances{tc \l 5 "Ozone Depleting Substances"}

{PRIVATE }Site Remediation{tc \l 5 "Site Remediation"}

{PRIVATE }Sulphur Dioxide & Suspended Particulates{tc \l 5 "Sulphur Dioxide & Suspended Particulates"}

{PRIVATE }Waste Antifreeze{tc \l 5 "Waste Antifreeze"}

{PRIVATE }Waste Asbestos{tc \l 5 "Waste Asbestos"}

{PRIVATE }Waste Batteries{tc \l 5 "Waste Batteries"}

{PRIVATE }Waste Paint{tc \l 5 "Waste Paint"}

Waste Solvents

Wildlife

DSD Contacts

Renewable Resource Officer,
- Andy McMullen, (867-982-7250
Biologist, Kitikmeot Region, Kugluktuk
- Brent Patterson, (867) 982-7244

Caribou Protection Measures

The Bathurst caribou herd moves through this area in July in the fall. Considerable care should be taken not to disturb the herd. (Please see listed wildlife contacts)

The proponent should be directed to the caribou protection measures developed for the Kaminuriak and Beverly herds and now attached to draft land use plans in Nunavut. Recommendation of these conditions is not restricted to the Kaminuriak and Beverly herds (i.e., they may be applied to other herds as well).

Bear-People Conflicts

The operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures should be followed to reduce the likelihood that bears will be attracted to the operation. Careful planning and attention to details of camp design and maintenance will decrease the attraction of bears to camp.

The applicant should follow procedures outlined in the "Safety in Bear Country Manual", and should contact the Regional/Area Biologist or the Renewable Resource Officer indicated above for information and advice on measures which should be taken to minimize the possibility of bear-people conflicts.

Raptor Nesting Areas

The project area includes known raptor nesting sites and other areas where it is likely that raptors nest. To minimize negative impacts of this operation on raptors, the applicant should be advised to:

(a) take care not to disturb nesting raptors from 15 April to 1 September by staying at least 1.5 km away from them when in transit by aircraft, and to avoid approaching them closely while on foot, and

(b) contact the Regional Biologist in Kugluktuk to identify areas which should be avoided.

The following clause could be included in the covering letter: "If raptors are disturbed during the nesting period, they often abandon the eggs or young. Loud, repeated noises and close approach by humans on foot are particularly harmful."

Low Level Flights

Flying time may be considerable with both movement of people from camps and drill rigs. During the time of migration care should be taken to observe all Transport Canada rules for flight heights.

Aircraft activity with no specific requirements for low level flying should be restricted to a minimum altitude of 300m above ground level.

It should be clearly understood by the proponent that harassment of wildlife is prohibited under the NWT Wildlife Act and this includes low-level flights.

Are exploration personnel allowed to fish/hunt in the areas? This should only be allowed if personnel have the appropriate licenses in compliance with the NWT wildlife ACT. Also, if the camp turns into a long-term operation this policy should be reevaluated. Prolonged hunting or fishing activities in any localized area can have negative impacts upon fish and wildlife populations and this type of activity should be discouraged.

Storage of Chemicals Containing Salts

Chemicals containing salts, which may attract wildlife to the site, should be stored so that they are inaccessible to wildlife.

Environmental Assessment

In order to assist the proponent in further environmental assessment work, it should be made aware that the Nunavut Planning Commission has been working with the communities and Government to develop valued ecosystem components, codes of conduct and other useful information. The proponent should contact NPC to obtain copies of these for their future work.

Socio-economic

Community Involvement and consultation

Hiring of local Inuit by the proponent and associated contractors should be encouraged. Information on qualifications of available personnel and job postings can be addressed through hamlet employment officers and Kitikmeot and Employment and Training Partners manager:

Larry Adjun	Kugluktuk	867-982-4471
Joanne Apsimik	Cambridge Bay	867-983-2337
Sean Peterson	KETP	867-983-2686

Involvement of students for environmental monitoring and studies is encouraged. An Environmental Technology program began at the Nunavut Arctic College in September of 1999. The Proponent is encouraged to contact Ms. Vicki Babinski at 867-983-7237.

Environment Canada Environnement Canada

Environmental Protection Branch
Suite 301, 5204-50th Avenue
Yellowknife, NT X1A 1E2
tel (867) 669-4700
fax (867) 873-8185

February 14, 2000

Our File:

Environmental Assessment Officer
Nunavut Impact Review Board
Box 2379 Cambridge Bay, NT

Dear Gladys Joudrey:

Re: NIRB Water Licence Application 00EN071 - Kennecott Canada Exploration Inc. - Mineral Exploration - Rocking Horse Area, NT.

On behalf of the Environmental Protection Branch (EPB), Environment Canada I have reviewed the information submitted with the above application, and recommend the following conditions for inclusion in the water licence. This advice is provided pursuant to Section 22 of the *Mackenzie Valley Resource Management Act*, and is based primarily on EPB's mandated responsibilities for the enforcement of the *Canadian Environmental Act* (CEPA) and Section 36 of the *Fisheries Act*. It is a requirement of Section 36 of the *Fisheries Act* that all effluent discharge into water frequented by fish be non-deleterious.

- The proponent shall ensure that any fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins, and fuel stores should be located a minimum of thirty (30) metres from the normal high water mark of, and such that they do not enter any water body.

- The proponent shall not deposit nor permit the deposit of slash, debris or sediment into any water body. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water.

- For on-ice drilling, return water released to the lake must be non-toxic, and not result in an increase in total suspended solids in the immediate receiving waters of the lake above Canadian Council of Ministers for the Environment Guidelines for the Protection of Freshwater Aquatic Life (ie. 10mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100 mg/L).

- Drilling additives or mud shall not be used in connection with holes drilled through the lake ice unless they are re-circulated or contained such that they do not enter the water, or demonstrated to be non-toxic.

- If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.

- The permittee shall not erect camps or store material on the surface ice of streams or lakes.

- EPB should be advised of any material changes to plans or operating conditions associated with this water licence application.

Please do not hesitate to contact me at (403) 669-4736 or wade.romanko@ec.gc.ca with any questions or comments regarding the foregoing.

Yours truly,

W Romanko

Wade Romanko
Aquatic Environmental Officer

cc: Sid Bruinsma (Inspector, EPB)

COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: _Exploration Rocking Horse Area - Kennecott_____
Proponent: _Kennecott Canada Exploration Inc._____
Location: __Takajuak Lake _____, NIRB#: _00EN071_____
Comments Due By: _Monday February 14, 2000_____

Indicate your concerns about the project proposal below:

- ☐ no concerns
- ☒ water quality
- ☐ terrain
- ☐ air quality
- ☐ wildlife and their habitat
- ☐ marine mammals and their habitat
- ☐ birds and their habitat
- ☒ fish and their habitat
- ☐ heritage resources in area
- ☐ traditional uses of land
- ☐ Inuit harvesting activities
- ☐ community involvement and consultation
- ☐ local development in the area
- ☐ tourism in the area
- ☐ human health issues
- ☐ Other:_____

Please describe the concerns indicated above:

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES ☒ NO ☐
Any additional comments?

Name of person commenting: LYNDON KIVI **of**
Position: BIOLOGIST **Organisation:** DFO
Signature: [signature] **Date:** _____

Fisheries and Oceans | Pêches et Océans

Fish Habitat Management
Suite 101, 5204-50th Avenue
Yellowknife, Northwest
Territories
X1A 1E2

Your file *Votre référence*

Our file *Notre référence*
00-HCAA-CA6-000-000022

February 17, 2000

Kevin Wallis
Kennecott Canada Exploration Inc.
354-200 Granville Street
Vancouver, BC
V6C 1S4

RE: **Water Licence Application NWB# 00EN071, Mineral Exploration, Takajuak Lake, Rocking Horse Area, Nunavut.**

Dear Mr. Wallis:

This letter is to advise that The Department of Fisheries and Oceans, Fish Habitat Management - NWT Area (DFO-FHM) received your Water Licence Application for mineral exploration in the Rocking Horse area submitted on your behalf by the Nunavut Impact Review Board. I have reviewed the plans for the proposed work.

Field operations in or near water may result in the harmful alteration, disruption or destruction of fish habitat, which is prohibited under Section 35 of the *Fisheries Act*. In addition to the measures set out in the project proposal, the following mitigation measures, if incorporated into the project, are intended to prevent any potentially harmful impacts to fish and fish habitat:

- All disturbed areas should be stabilized and re-vegetated as required, upon completion of work, and restored to a pre-disturbed state.
- If artesian flow is encountered, drill holes should be plugged and permanently sealed upon completion of the project.
- When using explosives, please follow the *Guidelines for the Use of Explosives In or Near Water* (DFO, 1998) available on request. If, for any reason these guidelines cannot be followed, please contact DFO, as an Authorization may be required.
- If the drilling requires water in sufficient volume that the source waterbody may be drawn down please submit details (volume required, size of waterbody, etc.) to DFO-FHM for review. DFO-FHM does not recommend the use of streams as a water source.
- All water intakes should be properly screened to prevent the entrainment of fish. Refer to the *Freshwater Intake End-of-Pipe Fish Screen Guideline* (DFO 1995), available on request.

- Winter lake/stream crossings should be located to minimize approach grades. Cutting or filling of crossing approaches below the normal high water mark will not be permitted unless approved by DFO-FHM.

- The use of material other than ice or snow to construct a temporary crossing over any ice-covered watercourse is prohibited by regulations under *Fisheries Act* unless authorized by a Fishery Officer.

- All winter crossings should be removed prior to spring breakup.

- No material should be left on the ice when there is the potential for that material to enter the water (i.e. spring break-up).

Depositing deleterious substances into fish bearing waters is prohibited as stated under Subsection 36(3) of the *Fisheries Act*. The following are additional measures to mitigate habitat disturbance or loss as well as the deposition of deleterious substances.

- Sediment and erosion control measures should be implemented prior to, and maintained during the work to prevent entry of sediment into the water.

- All activities, including maintenance procedures and vehicular refuelling, should be controlled to prevent the entry of petroleum products, debris, slash, rubble, or other deleterious substances into the water.

- All wastes, drill cuttings, sewage containments and fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter any water body.

- Drill cuttings should be disposed of in a sump such that they do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.

- All spills of oil, fuel, or other deleterious material should be reported immediately to the 24-Hour Spill Line at (867) 920-8130.

If the proposed work is carried out as described in the plans provided to DFO-FHM and if the additional mitigation measures specified above are implemented, the proposed work will not be considered as contravening Subsection 35(1) of the *Fisheries Act* which reads:

> *"No person shall carry on any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat."*

Therefore, an authorization under Subsection 35(2) of the *Fisheries Act* will not be necessary. If a harmful alteration, disruption or destruction of fish habitat and/or the deposition of deleterious substances into fish bearing waters occurs as a result of a change in the plans for the proposed works or failure to implement the additional mitigation measures specified above, prosecution under Subsection 35(1) and/or Subsection 36(3) of the *Fisheries Act* may be initiated.

Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

Water Resources Division
Regulatory Approvals Section
P.O. Box 1500
Yellowknife, NT
XIA 2R3

Telephone: (867) 669-2660
Facsimile: (867) 669-2716

Your file Votre référence
#00EN071

Our file Notre référence
NWB-3021

February 10, 2000

Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, Nunavut

ATTENTION: Gladys Joudrey

RE: Comments on a Water Application, Rocking Horse Properties
Takajuak Lake, Kennecott Canada Exploration Ltd.
File No: NIRB#00EN071

The Water Resources Division has reviewed the above application and has the following comments.

We have no water-related concerns with the project at this point in time, and as such, the Water Resources Division supports the project proposal. Despite the answer given by the proponent in the NWB Supplementary Questionnaire, many of the proposed water supply and waste disposal methods have been successfully used in cold climates. The Spill Contingency Plan submitted by Kennecott in December 1999 is sufficient for the requirements of this item.

Thanks for the opportunity to comment. If you have any questions, please feel free to contact me at (867) 669-2660.

Sincerely,

R. Beavers

Roxanne Beavers
Project Specialist

cc. Philippe Lavallee, Nunavut District Office, DIAND
Dionne Filatrault, Nunavut Water Board

Canada

201 23

January 27, 2000

Carmen Levi, A/Deputy Minister
Department of Culture, Language, Elders and Youth
Government of Nunavut
Bag 800
Iqaluit NT X0A 0H0

Re: Water license application NIRB 00EN071; Diamond Exploration in the Rocking Horse Lake area (Kennecott Canada Exploration Inc.)
Due Date: February 14, 2000

Dear Ms. Levi:

At your request, the Prince of Wales Northern Heritage Centre has reviewed the above-noted application. Our recommendations follow.

We recommend approval of the above-cited application with the condition that the known archaeological site listed in Attachment 1 is not disturbed.

The attached conditions also specify plans and methods of site protection and restoration to be followed by the permittee if an archaeological site is encountered or disturbed in the course of the land use activity

Please note that the latitude and longitude co-ordinates were reversed on the application. Our review consisted of a database search with the co-ordinates 66 N and 113 W.

Regards,

Charles D. Arnold, Director
Culture and Heritage Division

Prince of Wales Northern Heritage Centre

c. Nunavut Impact Review Board
Douglas Stenton, Chief Archaeologist, CLEY, Government of Nunavut

ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS
BACKGROUND

I. The archaeological record of the Inuit of Nunavut is a record of Inuit use and occupancy of lands and resources through time. The evidence associated with their use and occupancy represents a cultural, historical, and ethnographic heritage of Inuit society and, as such, Government recognizes that Inuit have a special relationship with such evidence which shall be expressed in terms of special rights and responsibilities.

The archaeological record of Nunavut is of spiritual, cultural, religious and educational importance to Inuit. Accordingly, the identification, protection and conservation of archaeological sites and specimens and the interpretation of the archaeological record is of primary importance to Inuit and their involvement is both desirable and necessary.

In recognition of the cultural, spiritual and religious importance of certain areas in Nunavut to Inuit, Inuit have special rights and interests in these areas as defined by Article 33 of Nunavut Land Claim Agreement.

II. "Archaeological site" means a site or work within Nunavut of archaeological, ethnographical or historical importance, interest or significance or a place where an archaeological specimen is found, and includes explorers' cairns. "Archaeological specimen" means an object or specimen found in an archaeological site of archaeological, ethnological or historical importance, interest or significance and includes explorers' documents.

III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.

IV.
1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
3. The permittee shall contact the Department of Culture, Language, Elders and Youth, Iqaluit (867-979-4720) and DIAND official should an archaeological site or specimen be encountered or disturbed by any land use activity.
4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth.
5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition, and according to the respective jurisdictions and authorities.
6. The permittee shall provide information to the Department of Culture, Language, Elders and Youth about each archaeological site or specimen encountered by any land use activity, by completing the attached form.
7. The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and specimens.
8. The permittee shall avoid the known archaeological sites in the area as listed in Attachment 1.

ARCHAEOLOGICAL SITE RECORD

FIELD NUMBER:

SITE NAME:

PROJECT:

DESCRIBE LOCATION OF SITE:

TERRITORY: Nunavut
DISTRICT:
MAP REFERENCE:
JURISDICTION:
UTM:
LATITUDE:
LONGITUDE
ELEVATION: SIZE:

CONDITION:

SITE TYPE CLASS:

- ❑ Prehistoric
- ❑ Indigenous historic
- ❑ Historic
- ❑ Natural
- ❑ Undetermined

SITE FEATURES:

CULTURE:

REPORTER'S NAME AND ADDRESS:

YEAR OBSERVED:

REMARKS/SKETCH/PHOTOGRAPHS:

[Please attach a copy of the NTS map (1:250,000) with the site location clearly marked.]

Return to: Department of Culture, Language, Elders and Youth, Government of Nunavut, Bag 800, Iqaluit NT X0A 0H0 (867-979-4720)

ATTACHMENT #1

Borden Number

PAR	32233
UID	ALLS1
DOB	22/12/93
DOC	22/12/93
DPAR	30032233
DDB	ANDB
DCF	0
XBR	McPe-1
INS	CMC/M
RT	1
BN	McPe-1
UB	MP
LB	ce
SN	001
NAM	
RN	Damkjar 93-23
PN	NWT 93-752
CN	
PRO	Metall Mining Corp., Izok Development, Heritage Resources Im
ER	
LOC	Site covers much of a sandy point at the extreme northwest corner of Takiyuak Lake. The point is vegetated with grass, mosses, and small shrubs. There are several small blowouts along the east margin.
TER	NWT;TN
DST	MACKENZIE
LAT	662934

LNG	1132806
UTM	12WUJ E9016 N7681
MR	86I/6
AIR	
EL	400 m. ASL
LEG	
CON	undisturbed except aeolian activity
SIZ	ca. 100 x 300 m
JUR	federal
OWN	
TY	campsite
TYC	prehistoric;indigenous historic
FE	tent ring;hearth
DAT	
CU	Inuit;Pre-Dorset
PER	
RES	Damkjar, E.
OD	1993
COL	1993 Damkjar, E. PWNHC
PRE	
UPRE	ASC ARCHIVES Ms. 3706
RE	A large multi-component site given only a very cursory examination in 1993. Historic tent rings and associated debris observed. Caribou antler tent pegs associated with the rings. At least two areas of lithic chipping debris, one of which produced chert flakes and a fragment of a typical Pre-Dorset bipointed endblade.
ASC	000042527
ABRE	
LU1	