

June 1, 2000

NUNAVUT WATER BOARD  
JUN 05 2000  
PUBLIC REGISTRY

**Re: Cominco Exploration – Northeast Ellesmere Island**  
**NIRB: 00EN017      NWB: NWB2ELL**

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

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

Yours truly,

INTERNAL	
PC	<i>[Signature]</i> June 11/00
LA	
OM	
TA	
BS	
ED	
CEO	
BRD	



**Reasons for Decision:**

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

- storage and disposal of equipment, fuel, garbage, sewage, and grey water, and impact of these on the ecosystem;
- the potential impact to the ecosystem from accidental spillage of petroleum products;
- impact and disturbance to wildlife;
- impact and disturbance to archaeological sites;
- clean up/restoration of the camp site upon abandonment; and
- community concerns

**Terms and Conditions:**

- That the terms and conditions attached to this screening report will apply.

**Fuel Storage**

1. The Permittee shall ensure that all fuel storage containers are located thirty metres (30m) from the normal high water mark of any water body at all times during operation.
2. 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.
3. The Permittee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
4. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
5. The Permittee shall have a spill clean up kit located on site including equipment such as absorbent pads, shovels etc.
6. 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.
7. The Permittee shall examine all fuel and chemical storage containers daily for leaks.
8. The Permittee shall repair all leaks immediately.
9. The Permittee shall mark all fuel containers with the Permittee's name.
10. The Permittee shall seal all container outlets except the outlet currently in use.

**Waste Disposal**

11. The Permittee shall not discharge or deposit any refuse substances or other waste materials in any body of water, which will impair the quality of the waters of the natural environment.
12. 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.

13. The Permittee shall construct a sump to contain all sewage and greywater discharged and shall ensure drainage is away from any waterbody.
14. The Permittee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the permit.
15. The Permittee shall keep all garbage and generated waste in a covered metal containers until disposed of.
16. The Permittee shall incinerate all combustible and food wastes to eliminate the potential for wildlife problems created by the attraction of wildlife to garbage.
17. The Permittee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite. The Permittee is to follow a "pack it in, pack it out" policy.
18. The Permittee shall remove all scrap metal, discarded machinery and parts, barrels, kegs, buildings, and building materials that are no longer required at the site.
19. The Permittee shall complete all clean-up and restoration of the lands prior to the expiry date of the permit.

### **Camps**

20. The Permittee shall locate all camps on gravel, sand, or other durable land.
21. The Permittee shall not erect camps or store material on the surface ice of lakes or streams.

### **Wildlife**

22. The Permittee shall ensure that there is no damage or disturbance to wildlife or their habitat in conducting this operation.
23. The Permittee shall not feed wildlife.
24. 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.
25. 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.
26. The Permittee shall not hunt or fish, unless the appropriate permits and licenses are acquired from a GN Renewable Resources Officer.

### **Environmental**

27. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
28. The Permittee shall undertake only the activities specified in their permit application.
29. The Permittee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Permittee's operation.



### **Archaeological Sites**

30. The Permittee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Department of Culture, Language, Elders and Youths (CLEY) in attached letter.

### **Reclamation**

31. The Permittee shall remove all equipment, including garbage and fuel, from the site upon abandonment.
32. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.

### **Other Recommendations**

1. NIRB would like to encourage the proponent to hire local people and services, to the extent possible, and to continue consulting with local residents regarding their activities in the region.
2. Proponents are strongly urged to negotiate in advance the amount to be compensated in the event that a defense kill of a polar bear occurs.
3. The proponent is strongly urged to meet with the community of Grise Fiord, to alleviate concerns with the project.
4. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new 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 June 01/00 at Edmonton, AB

  
Elizabeth Copland, Vice-Chairperson



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## NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

### I. General File Information on Screening

NIRB #: 00EN017  
(YY-XXX)

Authorizing Agency #(s): NWB2ELL  
permit or licence #

Project Title: COMINCO EXPLORATION - NORTHEAST ELLESMERE ISLAND  
Title of Project

Proponent: COMINCO LTD.  
Company, Applicant

Proponent's Address: 400-1066 West Hastings St.  
Vancouver, B.C. Canada  
V6E 3X1  
Full Address

Contractor

Company - persons doing the work if different from the proponent

address and contact numbers

Proposed Dates of Activity: Start Date 2000-06-15 End Date 2000-07-30  
(yyyy-mm-dd) (yyyy-mm-dd)

EA Starting Date: 2000-04-18  
Date application accepted (yyyy-mm-dd)

Date Application Referred for Comments: 2000-04-27  
(yyyy-mm-dd)

Deadline for Comments: 2000-05-26  
(yyyy-mm-dd)

NIRB's EA Indication: 12.4.4 (a)

Date of Indication: June 5, 2000  
(yyyy-mm-dd)

Project Cancelled: Yes, Give Reason

Comments:

**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: RITA BECKER, Licensing Administrator  
(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: NEW  
(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): N1999J0028  
(file number)

Previous Authorizations (inactive/expired): \_\_\_\_\_  
(file number)

**3. Project Location**

Kivalliq \_\_\_\_\_ Kitikmeot \_\_\_\_\_ Baffin ☒

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

Geographic Place Name: CARL RITTER BAY ON ELLESMERE ISLAND  
(nearest place name or geographic feature)

Local/Traditional Name: \_\_\_\_\_

National Topographic Sheet (NTS) Number: \_\_\_\_\_ Scale: \_\_\_\_\_

Latitude/Longitude: 80°00'N, 64°00'W ; 81°30'N, 72°00'W  
(degrees, minutes seconds)

Drainage Region and Watershed: CARL RITTER BAY  
(nearest creek, river or lake system)

Nearest Settlement: GRISE FIORI

Adjacent Settlement/Out-post camps: \_\_\_\_\_

Special Designation: NO  
(Yes/No - e.g. Heritage River, Wildlife Reserve, 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): 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: EXPLORATION, OPERATIONS  
(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 Inuktitut)

**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

Has contacted Grise Fjord Mayor, SAO, HTO & CLARC

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.

**PROJECT SUMMARY**  
**2000 Reconnaissance Mineral Exploration Program,**  
**Archer Fiord, NE Ellesmere Island, Canadian Arctic**

Cominco Ltd. has plans for a limited, surface reconnaissance mineral exploration program in 2000 on northeastern Ellesmere Island. This work is a continuation of similar, previous work by Cominco Ltd. on southeastern Ellesmere Island in 1997. The program will be based from a small tent camp at Carl Ritter Bay, serviced by temporary airstrip, and last for approximately 6 weeks, commencing say June 18; the camp will be adjacent to the campsite of the Geological Survey which has been used for the past 2 years, and will be used again this year. The program will include geological mapping, prospecting and geochemical sampling of stream sediments. There will be a surface crew of eight people, including four geologists, two prospectors, one technician, and one local Inuit field assistant. Daily traverses of river valleys and mountain ridges will be done by four two-man teams, with set-outs and pick-ups from camp by helicopter. No heavy equipment will be used for camp set up or for daily surface exploration work.

The attached map shows the planned work area for 2000, and the exact location of the camp. All work will be done on DIAND Prospecting Permits shown on the map; there is a contingency in the program for mineral claim staking, but none is planned. Helicopter fuel, and some camp supplies were cached at Carl Ritter Bay in July, 1999, and is presently under storage according to DIAND Land Use Permit N1999J0028; application for an amendment of this permit to include commencement of the surface reconnaissance exploration program in 2000 is in progress. Mobilization of remaining camp supplies to Carl Ritter Bay will be done mid-June, with daily traverses by field crews beginning in the fourth week of June. The camp will be serviced by weekly Twin Otter charter flights from Resolute Bay.

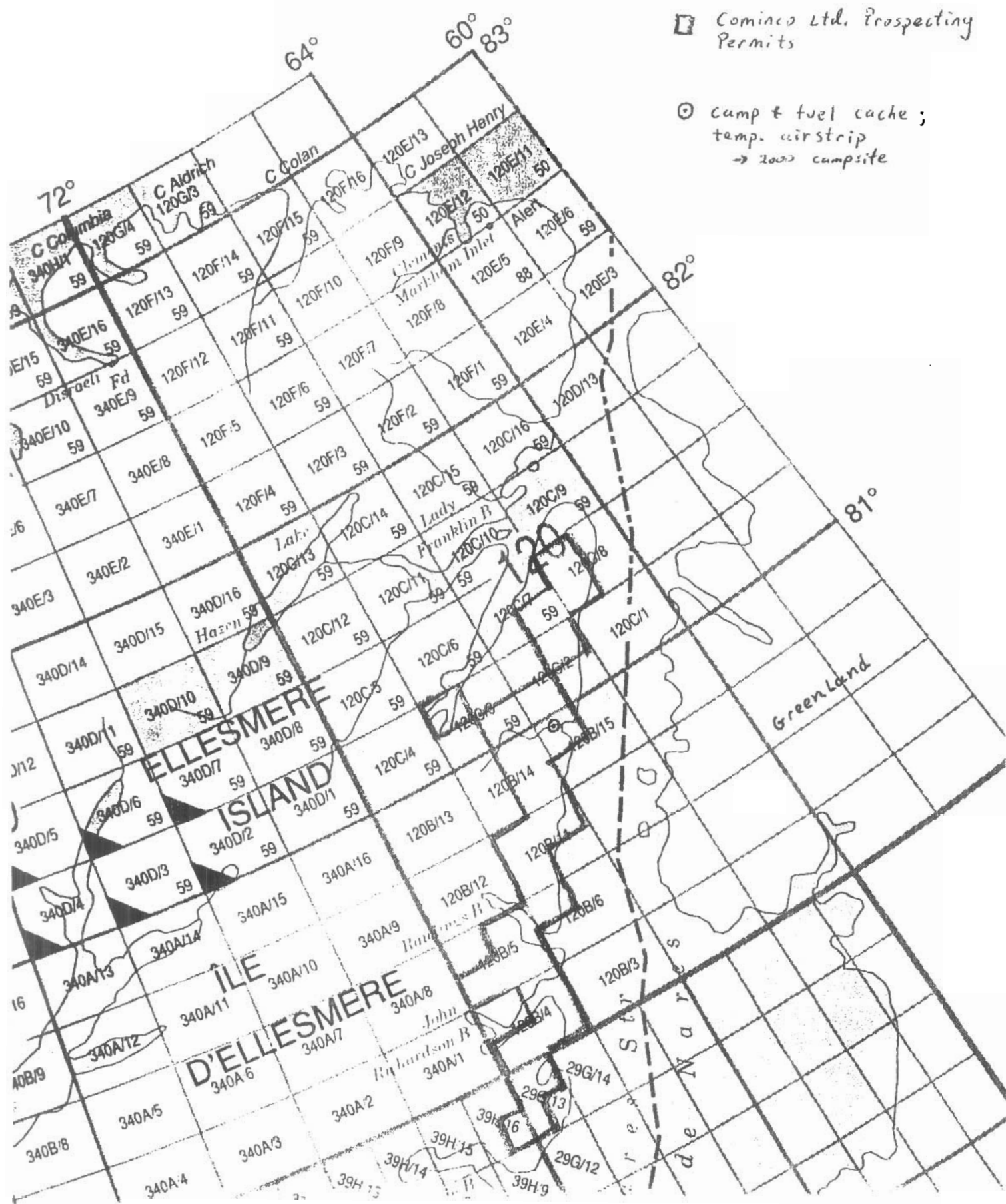
I am the Project Supervisor responsible for all administration, pre-field season preparation, and post-field season reporting related to the Ellesmere Project, and as well, will be the field supervisor during the summer program. As with previous surface exploration work by Cominco Ltd. in the Arctic Islands, all provisions and rules set out in DIAND Prospecting Permit guidelines will be met. It is a Cominco Ltd. policy not to disturb or harm wildlife in any way during the course of field work and this will be strictly enforced during the upcoming summer program. A project summary, including provisions for Health and Safety, is on file with the Chief Inspector of Mines, Yellowknife.

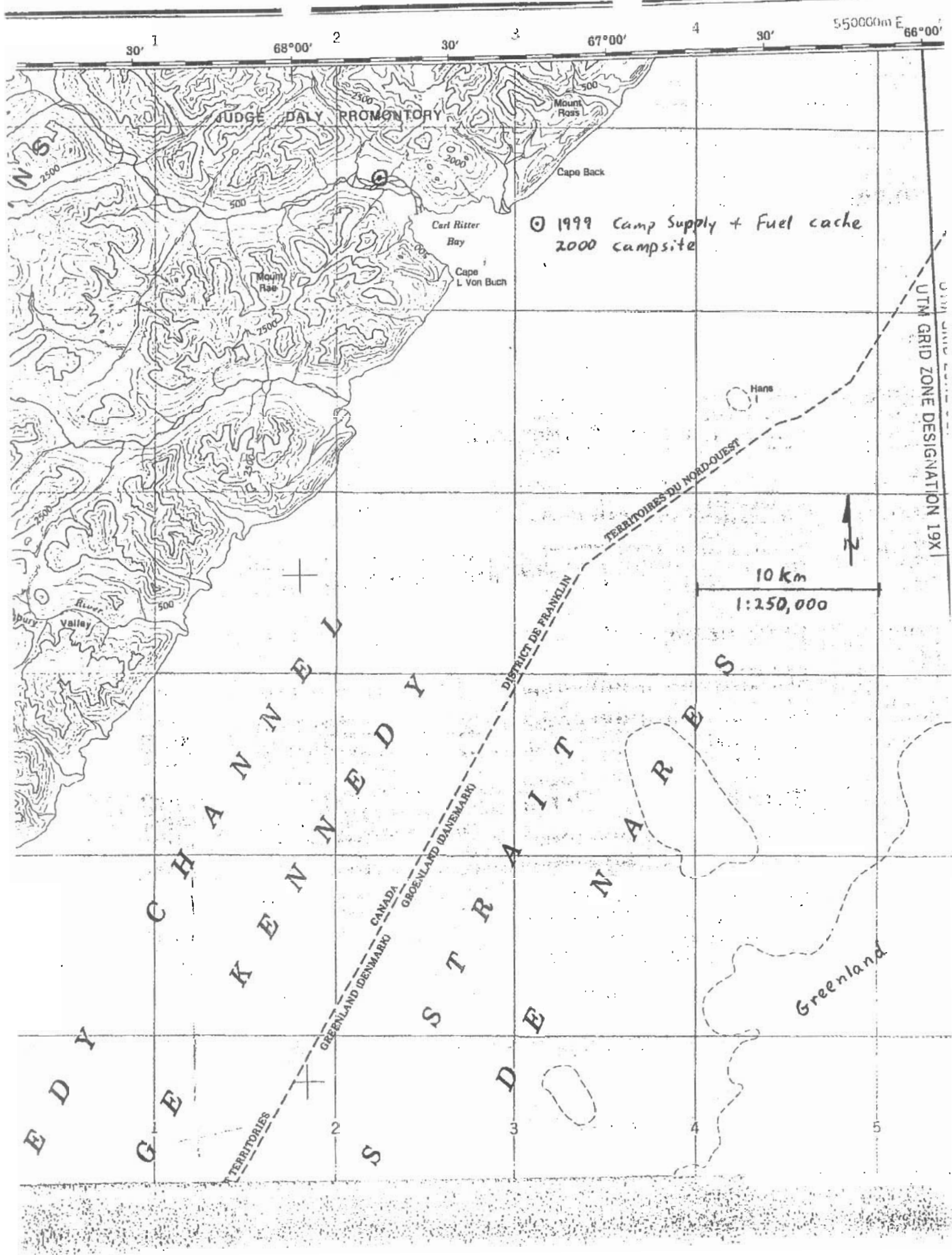
I am looking forward to a productive and enjoyable time on northeastern Ellesmere Island this summer. Please feel free to contact me if you have any questions regarding Cominco's planned activities, or if you require any additional information.











## 6. Description of the Environment

### Description of Biophysical Environment

*This area on the northeast coast of Ellesmere Island is relatively scarce of wildlife.*

*Wolves & polar bears are most likely in the area.*

### Description of Socio-Economic and Cultural Environment

*This area is not currently being used for Inuit activities.*

**7. NIRB's Consultation Process**

Date application referred for comments:

2000-04-27

(yyyy-mm-dd)

Deadline for comments:

2000-05-26

(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?

Levi Killiktee**FEDERAL:**

☒ DIAND  
☒ DFO  
☒ DOE  
☐ Heritage Can.  
☐ Natural Resources  
☒ Other? (eg. Health  
 DOT, DND)

R. Beavers  
Lyndon King  
Stephen Harbicht

May 3/00  
May 3/00  
May 15/00

Rick McLeanMay 11/00**GOVERNMENT OF NUNAVUT:**

☒ Sustainable Dev.  
☐ CGHT  
☐ HSS  
☐ CLEY  
☐ Other?

Chris NicholsMay 24/00**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)

- ☐ access road
  - ☐ winter
  - ☐ 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
- ☐ over 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 Camp

☐ possibility for accidents or malfunctions. Describe.

☐ 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. ☐ toxic/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.

[illegible]



**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

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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)?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 ones, 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)
- ☒ 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)

project proposal should have little  
or no environmental impact.

Prepared By:

Chris Joudrey  
Screened

Date:

May 25, 2001  
(yyy-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: Elizabeth Gland Date: June 01/00  
(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?



Environnement  
Canada

Environnement  
Canada

Northern Division  
Environmental Protection Branch  
Prairie and Northern Region  
#301 - 5204 - 50<sup>th</sup> Ave  
Yellowknife, NT X1A 1E2  
Ph, (867) 669-4700

May 30, 2000

Gladys Joudrey  
Environmental Assessment Officer  
Nunavut Impact Review Board  
P.O. Box 2379  
Cambridge Bay, NT X0E 0C0

Our File: New

By Facsimile: (867) 983-2594

Dionne Filiatrault  
Technical Advisor  
Nunavut Water Board  
P.O. Box 119,  
Gjoa Haven, NT X0E 1J0

By Facsimile: (867) 360-6369

**Re: Cominco Ltd. Water Licence Application - NWB2ELL - Mineral Exploration - Ellesmere Island**

I have reviewed the above application on behalf of the Environmental Protection Branch, Environment Canada (EPB), and offer the following comments for your consideration.

- The proponent shall ensure that any fuel or wastes associated with the proposed project do not enter waters frequented by fish. All fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of and in such a manner that no fuel can enter any such water body.
- The contingency plan does not include notification to the Spill Line at 867-920-8130.

Please do not hesitate to contact me at (867) 669-4735 with any questions or comments regarding the foregoing.

Yours truly,

Anne Wilson  
Water Pollution Specialist

cc: Steve Harbicht (Head, Assessment & Monitoring, EPB)

Canada





Environment  
Canada

Environnement  
Canada

Environment Canada  
Environmental Protection Branch  
Suite 301 5204 50<sup>th</sup> Ave  
Yellowknife, NT  
X1A 1E2

May 15, 2000

Gladys Joudry  
Environmental Assessment Officer  
P.O.Box 2379  
Cambridge Bay NT X0E 0C0

**RE: NWB Water Licence Application NIRB # 00EN017 Cominco Ltd.  
Northeast Ellesmere Island**

On behalf of Environment Canada, Environmental Protection Branch and Environmental Conservation Branch, Mark Mallory and I have reviewed the information provided for the above noted Land Use Application. The following comments and recommendation are offered for your consideration.

The applicant appears to have already checked on Ivory Gull status with CWS ( Box 12 of Application) There is no key habitat sites listed for this area however if any bird colonies etc. are encountered, reporting of these site to CWS would be most appreciated.

EC recommends that all aircraft should maintain altitudes of 1500 ft. when possible.

EC encourages exploration companies, when storing barreled fuel at location, to use a secondary container rather than relying on "natural depressions" There are self supporting instant berms now available from various suppliers within Canada and if these insta berms are used properly it will virtually eliminate the possibility of ever having to deal with petroleum contaminated soils.

The applicant shall ensure that any chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins and fuel caches should be located a minimum of thirty (30) meters from the normal high water mark of any such waterbody.

I can be contacted at (867) 669-4733 or fax (867) 873-8185 or Email [stephen.harbicht@ec.gc.ca](mailto:stephen.harbicht@ec.gc.ca).

Sincerely

Stephen Harbicht  
Head, Assessment and Monitoring, EPB Yellowknife

cc Mark Mallory ECB Iqaluit

Document: 00EN017 Page 1 of 1



MAY-09-00 13:58 From:DIAND WA. RESOURCES

1-867-669-2

T-361 P.07/11 Job-806

00-Apr-27 10:21am From-NUNAVUT IMPACT REVIEW BOARD



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## 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: Cominco Exploration – Northeast Ellesmere Island

**Proponent: Cominco Ltd.**

**Location:** Northeast Ellesmere Island in the North Baffin near Grise Fiord

**NIRB#: 00EN017**

Comments Due By: Wednesday, May 24, 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?**

The spill line should be contacted in the event of a spill at (867) 920-8130.

Sumps should be located thirty meters from all watercourses

Do you support the project proposal? YES ☒ NO ☐

**Any additional comments?**

Name of person commenting: B. Beavers of DIAND

Position: A/Regional Coordinator Organisation: Water Resources Division

Signature: R. Beane Date: May 1, 2000



MAY 11 '00 13:14 FR MAF : PROGRAMS

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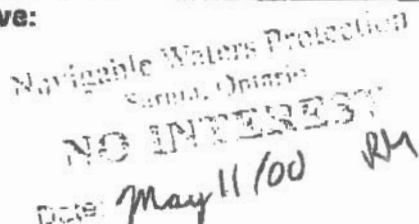
To <u>GLADYS JOLDFREY</u>	From <u>RICK McLEAN</u>
Cd. Dept. <u>E.A.O.</u>	Cd. <u>MC9-NWP</u>
Phone #	Phone #
# <u>867-983-2574</u>	Fax # <u>519-383-1989</u>

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## 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:

<b>Project Title:</b> Cominco Exploration – Northeast Ellesmere Island <b>Proponent:</b> Cominco Ltd. <b>Location:</b> Northeast Ellesmere Island in the North Baffin near Grise Fiord <b>NIRB#:</b> Q0EN017 <b>Comments Due By:</b> Wednesday, May 24, 2000	
<b>Indicate your concerns about the project proposal below:</b> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> no concerns  <input type="checkbox"/> water quality  <input type="checkbox"/> terrain  <input type="checkbox"/> air quality  <input type="checkbox"/> wildlife and their habitat  <input type="checkbox"/> marine mammals and their habitat  <input type="checkbox"/> birds and their habitat  <input type="checkbox"/> fish and their habitat  <input type="checkbox"/> heritage resources in area           </div> <div style="width: 48%;"> <input type="checkbox"/> traditional uses of land  <input type="checkbox"/> Inuit harvesting activities  <input type="checkbox"/> community involvement and consultation  <input type="checkbox"/> local development in the area  <input type="checkbox"/> tourism in the area  <input type="checkbox"/> human health issues  <input type="checkbox"/> Other: _____           </div> </div>	
<b>Please describe the concerns indicated above:</b> <div style="text-align: right; padding-right: 50px;">  </div>	
<b>Do you have any suggestions or recommendations for this application?</b>  	
<b>Do you support the project proposal?</b> YES <input type="checkbox"/> NO <input type="checkbox"/> <b>Any additional comments?</b>  	
<b>Name of person commenting:</b> _____ <b>of</b> _____ <b>Position:</b> _____ <b>Organisation:</b> _____ <b>Signature:</b> _____ <b>Date:</b> _____	

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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:

Comments Due By: Wednesday, May 24, 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: MARINE BIOLOGIST Organisation: DEPT. OF FISHERIES + OCEANS  
Signature: [Signature] Date: 3 MAY 2000



## Iviq Hunters & Trappers Organization

P.O. Box 78 Grise Fiord, NT X0A 0J0

JOE10017

May 28, 2000

Michael H. Gunning, Ph.D.  
Cominco Ltd., Exploration  
400 - 1088 West Hasting St.  
Vancouver, B.C., Canada  
V6E 3X1

Dear, Michael:

This letter is a notification of receiving application we at this time do not deny or approve of such significant application as of yet.

We are requesting that Nunavut Impact Review Board have a public hearing to hear from the beneficiaries of Grise Fiord, further. ✓

Water Board must hold hearing in the community of Grise Fiord to determine the long-term effects.

We are overwhelmed by the implications in which we would face by approving or denying such application without consultation with the community peers.

We understand as written a conversation took place between Robert Sheaves & Cominco however no verbal or written has been made to Iviq HTO by Robert Sheaves on the discussion, in the case Iviq HTO's position has not convey to either parties.

We are requesting that we be given more time to review such project which could have long term implications (beneficial or adverse effects), from the general public.

Sincerely,

  
Jaypetee Akeagok  
Iviq HTO Chairperson

C.C. NIRB  
OIA  
Hamlet  
Nunavut Water Board  
Nunavut Planning Commission

## 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:** Cominco Exploration - Northeast Ellesmere

**Proponent:** Cominco Ltd.

**Location:** Baffin Region, NIRB#: 00EN017

**Comments Due By:** May 24, 2000

### Indicate your concerns about the project proposal below:

- |  |   |
|--|---|
| <input type="checkbox"/> no concerns                           | <input type="checkbox"/> traditional uses of land               |
| <input type="checkbox"/> water quality                         | <input type="checkbox"/> Inuit harvesting activities            |
| <input type="checkbox"/> terrain                               | <input type="checkbox"/> community involvement and consultation |
| <input type="checkbox"/> air quality                           | <input type="checkbox"/> local development in the area          |
| <input checked="" type="checkbox"/> wildlife and their habitat | <input type="checkbox"/> tourism in the area                    |
| <input type="checkbox"/> marine mammals and their habitat      | <input type="checkbox"/> human health issues                    |
| <input type="checkbox"/> birds and their habitat               | <input type="checkbox"/>  |
| Other: <input checked="" type="checkbox"/>                     |   |
| <input type="checkbox"/> fish and their habitat                |   |
| <input type="checkbox"/> heritage resources in area            |   |

### Please describe the concerns indicated above:

It should be noted that Northeast Ellesmere Island is an area of Nunavut where important Polar Bear habitat can be found. The proponent has not made mention of polar bears in their application. Given the significance of the area to polar bears the proponent should supply NIRB and DSD with a plan that deals with bear safety. This plan should include more information on reducing or eliminating sources of attractants such as kitchen wastes, sewage and grey water (Contact Mike Ferguson, Regional Wildlife Biologist for details, 867-899-8876.)

The proponent is strongly urged to contact DSD wildlife officers regarding safety in polar bear country literature and training.

It should be communicated to the proponent and all ground personnel that it is more than possible that caribou and Muskox in the area at this time of year could be with calves. Disturbance of the animals at this time of year could cause calves to be abandoned and subsequent mortality. The proponent should follow all Caribou protection measures, DOT regulations for level flying and avoid harassing wildlife (**it is an offense under the wildlife act to harass wildlife.**)

The proponent should establish a log for wildlife and archaeological sightings and instruct personnel in its use. All information regarding wildlife sightings should be reported to Mike Ferguson 899-8876. All information regarding archaeological sites should be sent to Brian Aglukark, Nunavut Planning Commission (867-979-1444) and Doug Stenton, Culture Language Elders and Youth (867-975-5500).

If the company allows exploration personnel to fish/hunt in the area they will require 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.

The spill contingency plan provided by the proponent does not discuss the reporting of spills. The proponent should revise it's spill contingency plan to discuss spill reporting. Copies of these procedures are available for DSD (Donna Kenneally 867- 975-5909).

Upon completion of all seasonal activities all food, waste and plastic fuel containers must be removed from the site.

Problem Wildlife must be immediately reported to Tony Romito (867-252-3879).

The proponent should be advised that DSD have fuel caches in this area. The proponent in the case of an emergency should only use these fuel caches. If the proponent does find itself in a situation where it has to use fuel from a DSD fuel cache it must be immediately replaced and the usage reported to DSD.

It should also be communicated to Cominco that its practice of early consultation with the community is one that our department strongly promotes. Since this area is a new area of exploration it is important that early in the process appropriate and ongoing regional awareness of operations is established. Therefore, Cominco is strongly encouraged to follow through on its community consultation plan and that it continue to advise surrounding communities of work progress within the region.

**Please 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:** May 24, 2000



### **Wildlife and Their Habitat**

- The applicant should be made aware that there is some potential of encountering polar bears when undertaking this type of a trip.
- Potential human-bear encounters can result in injury or death to either the bear or the humans, all possible efforts to avoid human-bear encounters must be made.
- The applicant is encouraged to obtain and read, government publications such as 'Safety in Polar Bear Country'
- The applicant is strongly encouraged to meet with the Wildlife Officer in Resolute Bay (Tony Romito 867-252-3879) in order to receive a briefing on proper procedures to avoid bear encounters, proper procedures should a bear be encountered, and proper procedures to follow should any kind of an incident related to such an encounter occur
- The proponent should be made aware that any polar bears killed during the trip (defense kill) would come off the quota of the nearest community. As such, the proponent will be expected to compensate the community. If they do not, future applications may not be supported by DSD on the grounds of there being unacceptable impacts from this venture.
- Also, if a defense kill does occur, the proponent must record the location of the carcass, sex of the bear and ensure the hide does not spoil. This means they may have to skin the bear if assistance is not readily available. Other specimens such as the jaw, Baculum (penis Bone), ear tags and lip tattoos must be submitted to the wildlife Officer. This information must be reported to the Wildlife Officer in Resolute Bay as soon as possible.
- All defense kills are investigated by an Officer to determine the nature of the incident.
- The applicant should be made aware that it is contrary to the Wildlife Act to harass wildlife in any manner.

### **Community Involvement and Consultation**

- The applicant is strongly encouraged to negotiate in advance the amount to be compensated, in the event that a defense kill of a polar bear occurs
- The applicant should be made aware that any defense kills of polar bears might jeopardize support of applications in the future.

### **Other**

- Bear deterrents (cracker shells, thunder flashes and rubber bullets) should be on site.
- The proponent should consider the use of electric fencing within the camp design, especially around sleeping quarters.



## DEPARTMENT OF SUSTAINABLE DEVELOPMENT

### ENVIRONMENTAL PROTECTION SERVICE

#### STANDARD RECOMMENDATIONS FOR LAND USE APPLICATIONS (AS APPLICABLE)

##### Spill Contingency Plan

The applicant should have a contingency plan for responding to chemical and petroleum spills which might occur during the proposed activity. The plan should include a list of available spill response equipment and the names of trained personnel who will be on-site and available in the case of a spill.

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 an 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.

### **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

*Environmental Protection Act*

*Environmental Protection Act: Simplified Summary*

*Environmental Rights Act*

*Spill Planning and Reporting Regulations*

*A Guide to Spill Contingency Planning & Reporting*

*Asphalt Paving Industry Emission Regulations*

*Pesticide Act*

*Pesticide Regulations*

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

### Environmental Guidelines

*Dust Suppression*

*General Management of Hazardous Waste*

*Industrial Projects on Commissioner's Lands*

*Industrial Waste Discharges*

*Ozone Depleting Substances*

*Site Remediation*

*Sulphur Dioxide & Suspended Particulates*

*Waste Antifreeze*

*Waste Asbestos*

*Waste Batteries*

*Waste Paint*

*Waste Solvents*

### Wildlife

#### 1. 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 below for information and advice on measures which should be taken to minimize the possibility of bear-people conflicts.

### DSD Contacts

Manager, Wildlife, Fisheries

- Alden Williams, (867) 975-5955  
Renewable Resource Officer,  
- Tony Romito (867) 252-3879  
Regional Biologist,  
- Mike Ferguson, (867) 899-8876

2. Caribou Protection Measures

See attached. [Recommendation of these conditions is not restricted to the Kaminuriak and Beverly herds (i.e., they may be applied to other herds as well).]

3. Peary Caribou (for Banks Island and High Arctic islands; not for Victoria Island)

Peary Caribou are a critically endangered subspecies which must not be harassed in any way. The applicant should be instructed not to harass these caribou, and to contact the Regional Biologist or Caribou Biologist in Pond Inlet (867) 899-8876 to obtain information on procedures required to prevent unintentional harassment.

4. 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 Pond Inlet (899-8876) to identify areas that 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."

5. Low Level Flights

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

6. 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.



Culture and Heritage Division

Culture, Language, Elders & Youth  
Government of Nunavut  
P.O. Box 800  
Iqaluit, NT X0A 0H0

May 19, 2000

Gladys Joudrey  
Environmental Assessment Screener  
Nunavut Impact Review Board  
Box 2379  
Cambridge Bay, NU X0E 0C0

**Re: Land Use Application NIRB 00EN017; Cominco Exploration – Northeast Ellesmere Island (Cominco Limited)**

Due Date: May 24, 2000

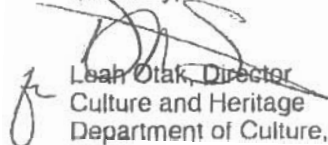
Dear Ms. Joudrey:

At your request, the Department of Culture and Heritage, Government of Nunavut, has reviewed the above-noted application. Our recommendations follow.

We recommend approval of the above-cited research application, on the condition that the proponent's activities avoid the known archaeological site(s) listed in Attachment #1. The information contained in Attachment #1 is provided solely for the purpose of the proponent's land use activities as described in the land use application, and must otherwise be treated confidentially by the proponent.

The attached conditions 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.

Sincerely,

  
Leah Otak, Director  
Culture and Heritage  
Department of Culture, Language, Elders and Youth

Encl.





## 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 the 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 explorer's cairns.  
  
"Archaeological specimen" means an object or specimen found in an archaeological site of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's 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 (867-975-5500) and DIAND officials 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, Government of Nunavut, Iqaluit.
  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.
  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 as listed in Attachment #1



9. The permittee shall have an archaeologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth: survey, inventory and documentation of the archaeological and historical resources of the land use area; assessment of potential for damage to archaeological sites; mitigation; marking boundaries of archaeological sites for avoidance; restoration. The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit all procedures subsumed under the above operations.

**EXPLANATION OF FIELD MNEMONICS**

<b>BN</b>	Borden Number (unique identifier)
<b>NAM</b>	Site name
<b>RN</b>	Reporter number (any temporary number assigned in the field, e.g. 99-12)
<b>PN</b>	Permit number
<b>PRO</b>	Project name
<b>LOC</b>	Location of site
<b>TER</b>	Territory
<b>DST</b>	District
<b>MR</b>	NTS Map Reference
<b>JUR</b>	Jurisdiction (federal, federal-Parks Canada, IOL)
<b>OWN</b>	Owner name; if in a Park or on settlement lands ((e.g., Auyuittuq National Park)
<b>LAT</b>	latitude
<b>LNG</b>	Longitude
<b>UTM</b>	Universal Transverse Mercator Grid
<b>AIR</b>	Air photo reference
<b>EL</b>	Elevation
<b>SIZ</b>	Size and orientation
<b>CON</b>	Condition
<b>TYC</b>	Site type class, prehistoric, indigenous historic, historic, natural, undetermined
<b>FE</b>	Features (e.g., cache, burial, tent ring, sod house)
<b>CU</b>	Culture
<b>PER</b>	Period (relative date, e.g., 17 <sup>th</sup> century)
<b>DAT</b>	Dates (absolute date, e.g., C14 date)
<b>RES</b>	Researcher's name, e.g., Stenton, D.
<b>OD</b>	Observer date
<b>COL</b>	Collections (yes/no; whether artifacts were collected and the final repository: Prince of Wales Northern Heritage Centre or Canadian Museum of Civilization)
<b>PRE</b>	Published reference
<b>UPRE</b>	Unpublished reference (the Sites Office will enter the appropriate ASC Archives manuscript Number here)

## Attachment 1

**BORDEN**

SITE NAME  
 PERMIT NUMBER  
 LOCATION  
  
 TERRITORY  
 DISTRICT  
 MAP REFERENCE  
 JURISDICTION  
 OWNER  
 LATITUDE  
 LONGITUDE  
 UTM  
 ELEVATION 1  
 DETERMINATION  
 SITE TYPE CLASS  
 TYPE  
 CULTURE  
 RESEARCHER NAME  
 DATE OBSERVED  
 COLLECTIONS  
 BIBLIOGRAPHIC REF.

## REMARKS

**BORDEN**

PERMIT NUMBER  
 LOCATION  
  
 TERRITORY  
 DISTRICT  
 MAP REFERENCE  
 JURISDICTION  
 OWNER  
 LATITUDE  
 LONGITUDE  
 UTM  
 ELEVATION 1  
 DETERMINATION  
 SITE TYPE CLASS  
 TYPE  
 FEATURES  
 CULTURE  
 RESEARCHER NAME  
 DATE OBSERVED  
 BIBLIOGRAPHIC REF.  
 REMARKS

**BORDEN**

PERMIT NUMBER  
 LOCATION  
  
 TERRITORY

**TgAt-1**

Burin Delta  
 NWT 65-250  
 On a terrace in the SW. corner of Burin Delta on the S. shore of  
 Ella Bay, N. Ellesmere Island. Head of Archer Fiord.  
 NUNAVUT  
 NORTH BAFFIN  
 120C 120D  
 Federal government;;Gouvernement fédéral  
 Nunavut  
 81:06:21:N  
 069:50:21:W  
 19XDA E8551 N0498  
 20.00 - 20.00 m.  
 ASL  
 prehistoric  
 campsite  
 Independence I  
 Knuth, E.  
 1965//  
 1965 Knuth, E. ASC acc. 2154

ASC ARCHIVES Ms. 283

ASC ARCHIVES Ms. 2627

For C14 dates, refer to table II of Knuth's Paper No. 5 (Ms. No.  
 283). 6 sunken shelter ruins.

**TgAt-2**

NWT 65-250  
 Burin Delta, on the lower delta E. of the river mouth and NE. from  
 TgAt-1. Ellesmere Island.  
 NUNAVUT  
 NORTH BAFFIN  
 120C 120D  
 Federal government;;Gouvernement fédéral  
 Nunavut  
 81:06:38:N  
 069:49:40:W  
 19XDA E8571 N0550  
 7.00 - 7.00 m.  
 ASL  
 prehistoric  
 campsite  
 tent ring  
 Thule  
 Knuth, E.  
 1965//  
 ASC ARCHIVES Ms. 283  
 3 neo-Eskimo tent rings.

**TgAu-1**

NWT 65-250  
 On the W. shore of Ella Bay about 2 mi. due W. of TgAt-1, N.  
 Ellesmere Island.  
 NUNAVUT

NIRB 00EN017

DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal government;;Gouvernement fédéral
OWNER	Nunavut
LATITUDE	81:06:22:N
LONGITUDE	069:59:46:W
UTM	19XDA E8280 N0505
SITE TYPE CLASS	prehistoric
TYPE	campsite
FEATURES	tent ring
CULTURE	Thule
RESEARCHER NAME	Knuth, E.
DATE OBSERVED	1965//
BIBLIOGRAPHIC REF.	ASC ARCHIVES Ms. 283
REMARKS	Site consists of three or four tent places covered with enormous flagstones.

<b>BORDEN</b>	<b>TgAu-2</b>
PERMIT NUMBER	NWT 65-250
LOCATION	At the head of Ella Bay on the SW. shore, N. Ellesmere Is.
TERRITORY	NUNAVUT
DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal government;;Gouvernement fédéral
OWNER	Nunavut
LATITUDE	81:05:17:N
LONGITUDE	070:01:33:W
UTM	19XDA E8225 N0305
SITE TYPE CLASS	prehistoric
TYPE	campsite
FEATURES	hearth
CULTURE	Independence I
RESEARCHER NAME	Knuth, E.
DATE OBSERVED	1965//
COLLECTIONS	1965 Knuth, E. ASC acc. 2154
BIBLIOGRAPHIC REF.	ASC ARCHIVES Ms. 283
REMARKS	Most probably this is an Independence I open fireplace of a type well known from Peary Land. Enough charcoal was collected for dating purposes.

<b>BORDEN</b>	<b>TgAu-3</b>
PERMIT NUMBER	NWT 65-250
LOCATION	At the head of Ella Bay on a delta terrace, N. Ellesmere Island.
TERRITORY	NUNAVUT
DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal government;;Gouvernement fédéral
OWNER	Nunavut
LATITUDE	81:04:53:N
LONGITUDE	069:59:21:W
UTM	19XDA E8287 N0229
SITE TYPE CLASS	indigenous historic
TYPE	campsite
RESEARCHER NAME	Knuth, E.
DATE OBSERVED	1965//
BIBLIOGRAPHIC REF.	ASC ARCHIVES Ms. 283

**BORDEN**  
**LOCATION**  
  
**TERRITORY**  
**DISTRICT**  
**MAP REFERENCE**  
**JURISDICTION**  
**OWNER**  
**LATITUDE**  
**LONGITUDE**  
**UTM**  
**SITE TYPE CLASS**  
**TYPE**  
**CULTURE**  
**RESEARCHER NAME**  
**DATE OBSERVED**  
**BIBLIOGRAPHIC REF.**

**TgAu-4**  
Near the head of Ella Bay on the W. bank of the river delta.  
Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal government;;Gouvernement fédéral  
Nunavut  
81:04:39:N  
070:01:52:W  
19XDA E8214 N0188  
prehistoric  
campsite  
Thule  
Knuth, E.  
1965//  
ASC ARCHIVES Ms. 283

**BORDEN**  
**SITE NAME**  
**PERMIT NUMBER**  
**LOCATION**  
  
**TERRITORY**  
**DISTRICT**  
**MAP REFERENCE**  
**JURISDICTION**  
**OWNER**  
**LATITUDE**  
**LONGITUDE**  
**UTM**  
**SITE TYPE CLASS**  
**TYPE**  
**CULTURE**  
**RESEARCHER NAME**  
**DATE OBSERVED**  
**COLLECTIONS**  
**BIBLIOGRAPHIC REF.**

**TgAu-5**  
River Courtyard Ruin  
NWT 65-250  
On the E. bank of an unnamed river just S. of the head of Ella Bay.  
Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal government;;Gouvernement fédéral  
Nunavut  
81:04:00:N  
070:02:41:W  
19XDA E8188 N0068  
prehistoric  
campsite  
Independence II  
Knuth, E.  
1965//  
1965 Knuth, E. ASC acc. 2154

#### REMARKS

ASC ARCHIVES Ms. 283  
ASC ARCHIVES Ms. 2629  
A drawing was made of the structure which differs from all known Independence I and II type but might be a hitherto unknown type of Independence II dwelling. It contained a small flat harpoon head with an open socket similar to one found at an Independence II site in Perry Land.

**BORDEN**  
**PERMIT NUMBER**  
**LOCATION**  
  
**TERRITORY**  
**DISTRICT**  
**MAP REFERENCE**  
**JURISDICTION**  
**OWNER**  
**LATITUDE**  
**LONGITUDE**

**TgAu-6**  
NWT 65-250  
On the W. bank of an unnamed river at the N. end of Ella Lake near the head of Ella Bay. Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal government;;Gouvernement fédéral  
Nunavut  
81:03:41:N  
070:02:25:W

UTM 19XDA E8195 N0008  
 SITE TYPE CLASS prehistoric  
 TYPE campsite  
 FEATURES hearth  
 CULTURE Independence I  
 RESEARCHER NAME Knuth, E.  
 DATE OBSERVED 1965//  
 BIBLIOGRAPHIC REF. ASC ARCHIVES Ms. 283  
 REMARKS Most probably Independence I open fireplaces of a type well known from Peary Land.

**BORDEN**  
 SITE NAME Lake Ruin  
 PERMIT NUMBER NWT 65-250  
 LOCATION E. of the river outlet from Ella Lake, S. of the head of Ella Bay. Ellesmere Island.  
 TERRITORY NUNAVUT  
 DISTRICT NORTH BAFFIN  
 MAP REFERENCE 120C 120D  
 JURISDICTION Federal government;;Gouvernement fédéral  
 OWNER Nunavut  
 LATITUDE 81:03:23:N  
 LONGITUDE 070:02:49:W  
 UTM 19XDV E8182 N9951  
 SITE TYPE CLASS prehistoric  
 TYPE campsite  
 FEATURES tent ring  
 cache  
 hearth  
 CULTURE Thule  
 SCIENTIFIC DATES 570 +/- 100 (K-1259)  
 RESEARCHER NAME Knuth, E.  
 DATE OBSERVED 1965//  
 COLLECTIONS 1965 Knuth, E. ASC acc. 2154  
 BIBLIOGRAPHIC REF. ASC ARCHIVES Ms. 283  
 REMARKS 2 tent rings (pear-shaped), a meat cache and 2 fireplaces. 1 bone implement of unknown use was collected.

**BORDEN**  
 PERMIT NUMBER NWT 83-540  
 PROJECT Eureka Upland Archaeological Project  
 ERRORS E  
 R = NATURE OF ERROR: Was previously designated ThAv-1.  
 ACTION TAKEN: Changed to ThAs-1 to conform to the reorganization of the BORDEN square TA. LU2 = crossref  
 LOCATION On the point W. of the entrance to Simmonds Bay, N side of Archer Fiord, N. Ellesmere Island.  
 TERRITORY NUNAVUT  
 DISTRICT NORTH BAFFIN  
 MAP REFERENCE 120C 120D  
 JURISDICTION Federal - PARKSCAN  
 OWNER Nunavut  
 Ellesmere Island National Park Reserve  
 LATITUDE 81:14:16:N  
 LONGITUDE 069:18:38:W  
 UTM 19XDA E9471 N1962  
 SITE TYPE CLASS prehistoric

TYPE  
FEATURES  
CULTURE  
OCCUPATION PERIOD  
RESEARCHER NAME  
DATE OBSERVED  
COLLECTIONS  
BIBLIOGRAPHIC REF.

campsite  
tent ring  
Thule ?  
between A.D. 1100-1700 ?  
Sutherland, Patricia  
1983//  
1983 Sutherland, P. ASC acc. 2443

ASC ARCHIVES Ms. 283  
ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142

## REMARKS

Three neo-Eskimo tent rings.

**BORDEN**  
PERMIT NUMBER  
ERRORS

**ThAs-1**  
NWT 65-250  
E  
R = NATURE OF ERROR: Was previously designated ThAv-1.  
ACTION TAKEN: Changed to ThAs-1 to conform to the  
reorganization of the BORDEN square TA.  
LU2 = crossref

## LOCATION

On the point W. of the entrance to Simmonds Bay, N. side of  
Archer Fiord, N.Ellesmere Island.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve

LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
TYPE  
FEATURES  
CULTURE  
OCCUPATION PERIOD  
RESEARCHER NAME  
DATE OBSERVED  
BIBLIOGRAPHIC REF.

81:14:16:N  
069:18:38:W  
19XDA E9471 N1962  
prehistoric  
campsite  
tent ring  
Thule ?  
between A.D. 1100-1700 ?  
Knuth, E.  
1965//

ASC ARCHIVES Ms. 283  
ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
Three neo-Eskimo tent rings.

## REMARKS

**BORDEN**  
PERMIT NUMBER  
PROJECT  
LOCATION

**ThAs-2**  
NWT 81-488  
Eureka Upland Archaeological Project  
On the west side of Murray Island in Simmonds Bay, Ellesmere  
Island.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve  
81:15:02:N  
069:18:16:W

LATITUDE  
LONGITUDE



UTM  
DETERMINATION  
SITE TYPE CLASS  
TYPE  
FEATURES  
RESEARCHER NAME  
DATE OBSERVED  
BIBLIOGRAPHIC REF.

19XDA E9482 N2103  
close to sea level  
undetermined  
campsite ?  
tent ring ?  
Sutherland, Patricia  
1981//

REMARKS  
SUPPLEMENTARY INFO.

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
A possible tent ring observed from the air.  
Location approximate.

**BORDEN**  
SITE NAME  
PERMIT NUMBER  
PROJECT  
LOCATION  
TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

**ThAs-3**  
Quartz Crystal  
NWT 81-488  
Eureka Upland Archaeological Project  
On the east side of Simmonds Bay, creek nearby. Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve

LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
TYPE  
FEATURES  
CULTURE  
RESEARCHER NAME  
DATE OBSERVED  
COLLECTIONS  
BIBLIOGRAPHIC REF.

81:15:38:N  
069:17:35:W  
19XDA E9502 N2215  
prehistoric ?  
campsite  
tent ring  
Thule ?  
Sutherland, Patricia  
1981//  
1981 Sutherland, P. ASC acc. 2442

REMARKS  
collected.  
SUPPLEMENTARY INFO.

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
Consists of a number of tent rings. Unmodified quartz crystal  
Location approximate.

**BORDEN**  
SITE NAME  
PERMIT NUMBER  
PROJECT  
LOCATION

**ThAs-4**  
Simmonds Bay  
NWT 83-540  
Eureka Upland Archaeological Project  
On the west side of Simmonds Bay, in a small bay immediately to the east of the point, on a series of raised gravel beach terraces.  
Ellesmere Island.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve  
81:14:22:N  
069:19:14:W  
19XDA E9454 N1981

LATITUDE  
LONGITUDE  
UTM

SITE TYPE CLASS	prehistoric
TYPE	campsite
FEATURES	c ache tent ring house (mid-passage) scatter (lithic) stone feature
CULTURE	I ndependence II Dorset (early)
OCCUPATION PERIOD	between 1000 and 500 ? B.C.
RESEARCHER NAME	Sutherland, Patricia
DATE OBSERVED	1983//
COLLECTIONS	1983 Sutherland, P. ASC acc. 2443
BIBLIOGRAPHIC REF.	

ASC ARCHIVES Ms. 3114

ASC ARCHIVES Ms. 3142

" ASC ARCHIVES Ms. 2357", ASC ARCHIVES Ms. 2357

REMARKS Site stretches approximate 135 m along beach, approximate 16 m across it and on at least 2 terrace levels. A settlement consisting of at least 10 features, some vaguely defined. A possible modern tent ring close to shoreline.

<b>BORDEN</b>	<b>ThAs-5</b>
PERMIT NUMBER	NWT 83-540
PROJECT	Eureka Upland Archaeological Project
LOCATION	At the outlet at Simmonds Bay. Ellesmere Island.
TERRITORY	NUNAVUT
DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal - PARKSCAN
OWNER	N

unavut

Ellesmere Island National Park Reserve

LATITUDE	81:16:11:N
LONGITUDE	069:22:45:W
UTM	19XDA E9357 N2318
SITE TYPE CLASS	prehistoric ?
TYPE	campsite
FEATURES	c ache house ? Thule ?

CULTURE	Thule ?
RESEARCHER NAME	Sutherland, Patricia
DATE OBSERVED	1983//
BIBLIOGRAPHIC REF.	

ASC ARCHIVES Ms. 3114

ASC ARCHIVES Ms. 3142

REMARKS Consists of 1 or 2 house features and 2 caches observed from the air.

SUPPLEMENTARY INFO. Location approximate.

<b>BORDEN</b>	<b>ThAs-6</b>
PERMIT NUMBER	NWT 83-540
PROJECT	Eureka Upland Archaeological Project
LOCATION	At the outlet of a small lake, almost at the creek which flows into an unnamed river connecting Simmonds Bay to Murray Lake on

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

the west side, Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
N  
unavut  
Ellesmere Island National Park Reserve  
81:16:31:N  
069:26:06:W  
19XDA E9263 N2383  
undetermined  
cache  
Sutherland, Patricia  
1983//

LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
FEATURES  
RESEARCHER NAME  
DATE OBSERVED  
BIBLIOGRAPHIC REF.

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
One large cache observed from the air.  
Location approximate.

REMARKS  
SUPPLEMENTARY INFO.

**BORDEN**  
PERMIT NUMBER  
PROJECT  
LOCATION

**ThAs-7**  
NWT 83-540  
Eureka Upland Archaeological Project  
In a shallow bay on the west side of Simmonds Bay, on the north  
side of a creek bed Ellesmere Island.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve  
81:14:22:N  
069:19:14:W  
19XDA E9454 N1981  
undetermined  
campsite  
tent ring  
Sutherland, Patricia  
1983//

LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
TYPE  
FEATURES  
RESEARCHER NAME  
DATE OBSERVED  
BIBLIOGRAPHIC REF.

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
Consists of 2 tent rings.  
Location approximate.

REMARKS  
SUPPLEMENTARY INFO.

**BORDEN**  
PERMIT NUMBER  
PROJECT  
LOCATION

**ThAu-1**  
NWT 83-540  
Eureka Upland Archaeological Project  
On the east side of an unnamed river that flows into Beatrix Bay.  
Ellesmere Island.  
NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
Ellesmere Island National Park Reserve

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER

LATITUDE 81:11:05:N  
 LONGITUDE 070:16:34:W  
 UTM 19XDA E7816 N1391  
 SITE TYPE CLASS undetermined  
 FEATURES cache  
 RESEARCHER NAME Sutherland, Patricia  
 DATE OBSERVED 1983//  
 BIBLIOGRAPHIC REF.

ASC ARCHIVES Ms. 3114  
 ASC ARCHIVES Ms. 3142

REMARKS A single cache noted by helicopter pilot, J. Dionne.

**BORDEN**

PERMIT NUMBER  
 PROJECT  
 LOCATION

**ThAu-2**

NWT 83-540  
 Eureka Upland Archaeological Project  
 On the south side of the delta at the bottom of Beatrix Bay, on a low gravel terrace. Ellesmere Island.

TERRITORY  
 DISTRICT  
 MAP REFERENCE  
 JURISDICTION  
 OWNER

NUNAVUT  
 NORTH BAFFIN  
 120C 120D  
 Federal - PARKSCAN  
 Nunavut  
 Ellesmere Island National Park Reserve

LATITUDE  
 LONGITUDE  
 UTM  
 SITE TYPE CLASS  
 TYPE  
 FEATURES  
 RESEARCHER NAME  
 DATE OBSERVED  
 BIBLIOGRAPHIC REF.

81:10:34:N  
 070:13:41:W  
 19XDA E7896 N1293  
 undetermined  
 campsite  
 tent ring  
 Sutherland, Patricia  
 1983//

ASC ARCHIVES Ms. 3114  
 ASC ARCHIVES Ms. 3142

REMARKS  
 SUPPLEMENTARY INFO.

Consists of 2 tent rings observed from the air.  
 Location approximate.

**BORDEN**

PERMIT NUMBER  
 PROJECT  
 LOCATION  
 TERRITORY  
 DISTRICT  
 MAP REFERENCE  
 JURISDICTION  
 OWNER

**ThAv-1**

NWT 83-540  
 Eureka Upland Archaeological Project  
 On the north side of the Dodge River. Ellesmere Island.

LATITUDE  
 LONGITUDE  
 UTM  
 SITE TYPE CLASS  
 FEATURES  
 RESEARCHER NAME  
 DATE OBSERVED  
 BIBLIOGRAPHIC REF.

NUNAVUT  
 NORTH BAFFIN  
 120C 120D  
 Federal - PARKSCAN  
 Nunavut  
 Ellesmere Island National Park Reserve

81:19:19:N  
 070:56:36:W  
 19XDA E6726 N2954  
 undetermined  
 cache  
 Sutherland, Patricia  
 1983//

ASC ARCHIVES Ms. 3114  
 ASC ARCHIVES Ms. 3142

REMARKS  
SUPPLEMENTARY INFO.

A single cache observed from the air.  
Location approximate.

**BORDEN**

PERMIT NUMBER  
PROJECT  
LOCATION

**ThAx-1**

NWT 83-540  
Eureka Upland Archaeological Project  
On the north side of Dodge River where a small tributary meets the main river.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER  
LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
TYPE  
FEATURES

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal - PARKSCAN  
Nunavut  
81:16:14:N  
071:36:12:W  
19XDA E5590 N2423  
prehistoric  
campsite  
house (mid-passage)  
cache ?

CULTURE  
RESEARCHER NAME  
DATE OBSERVED  
COLLECTIONS  
BIBLIOGRAPHIC REF.

hearth (box)  
Palaeoeskimo  
Sutherland, Patricia  
1983//  
1983 Sutherland, P. ASC acc. 2443

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142  
" ASC ARCHIVES Ms. 2357", ASC ARCHIVES Ms. 2357

REMARKS  
hearth and one possible cache. House feature tested. Charcoal sample recovered. This is an unexpected location for such a site and it suggests a possible migration route from Antoinette Bay on Greely Fiord to the east coast via the Dodge River valley.

## SUPPLEMENTARY INFO.

Location approximate.

**BORDEN**

SITE NAME  
PERMIT NUMBER  
ERRORS

**TiAk-1**

Archer Fiord Three  
NWT 65-250  
ER = NATURE OF ERROR: Originally incorrectly designated and published TiAp-1. ACTION TAKEN: Designation changed to TiAk-1. Both designations retained and cross referenced.

## LOCATION

LU2 = crossref  
On the S. shore of Lady Franklin Bay, Judge Daly Promontory, about 10 mi. SW. from Cape Baird, N. Ellesmere Island.

TERRITORY  
DISTRICT  
MAP REFERENCE  
JURISDICTION  
OWNER  
LATITUDE  
LONGITUDE  
UTM  
SITE TYPE CLASS  
FEATURES

NUNAVUT  
NORTH BAFFIN  
120C 120D  
Federal government;;Gouvernement fédéral  
Nunavut  
81:29:48:N  
065:29:37:W  
20XMF E5884 N4937  
undetermined  
tent ring  
cache

## RESEARCHER NAME

Maxwell, Dr. Moreau S. - Michigan State University;;Maxwell, Ph.D.

NIRB 00EN017

Moreau S. - Michigan State University  
Christie, R. L.

DATE OBSERVED 1  
958//  
1958//

BIBLIOGRAPHIC REF. 1960 Maxwell, M.S. "An Archaeological Analysis of Eastern Grant Land,

REMARKS A tent ring, which Christie considered to be older than the others because of the unusual amount of vegetation around the rocks, was observed in association with a small cache. The ring is about 6 ft. in length.

**BORDEN**  
**SITE NAME**  
**ERRORS** **TiAm-1**  
Archer Fiord Two  
ER = NATURE OF ERROR: Originally incorrectly designated  
TiAq-1. ACTION TAKEN: Designation changed to TiAm-1. Both  
numbers retained and cross referenced.  
LU2 = crossref

LOCATION On a small creek terrace on the S. shore of Archer Fiord, N.  
Ellesmere Island.

TERRITORY NUNAVUT  
DISTRICT NORTH BAFFIN  
MAP REFERENCE 120C 120D  
JURISDICTION Federal government;;Gouvernement fédéral  
OWNER Nunavut  
LATITUDE 81:26:03:N  
LONGITUDE 066:17:43:W  
UTM 19XEA E4495 N4258  
ELEVATION 2 15.00 - 15.00 ft.  
DETERMINATION ASL  
SITE TYPE CLASS undetermined  
TYPE campsite  
FEATURES tent ring  
RESEARCHER NAME Maxwell, Dr. Moreau S. - Michigan State University;;Maxwell, Ph.D.  
Moreau S. - Michigan State University  
Christie, R. L.

DATE OBSERVED 1  
957//  
1957//

BIBLIOGRAPHIC REF. 1960 Maxwell, M.S. "An Archaeological Analysis of Eastern Grant Land,

REMARKS Christie found two crude rings about 8 ft. in diameter and a few deeply weathered food bones, but no artifacts.

**BORDEN**  
**SITE NAME**  
**ERRORS** **TiAn-1**  
Archer Fiord One  
ER = NATURE OF ERROR: Originally incorrectly designated and  
published as TiAr-1. ACTION TAKEN: Designation changed to  
TiAn-1. Both numbers retained and cross referenced.  
LU2 = crossref

LOCATION At the mouth of a creek on the S. shore of Archer Fiord which  
flows from a river system crossing Judge Daly Promontory, N.  
Ellesmere Is.

TERRITORY NUNAVUT  
DISTRICT NORTH BAFFIN  
MAP REFERENCE 120C 120D  
JURISDICTION Federal government;;Gouvernement fédéral  
OWNER Nunavut

LATITUDE	81:24:17:N
LONGITUDE	066:37:59:W
UTM	19XEA E3948 N3903
SITE TYPE CLASS	undetermined
FEATURES	trap (fox) cache
RESEARCHER NAME	Maxwell, Dr. Moreau S. - Michigan State University;;Maxwell, Ph.D. Moreau S. - Michigan State University Christie, R. L.
DATE OBSERVED	1 958// 1958//
BIBLIOGRAPHIC REF.	1960 Maxwell, M.S. "An Archaeological Analysis of Eastern Grant Land,
REMARKS	The site consists of two meat caches and what are probably the remnants of two fox traps.

<b>BORDEN</b>	<b>TiAv-1</b>
PERMIT NUMBER	NWT 83-540
PROJECT	Eureka Upland Archaeological Project
LOCATION	On the north shore of the Dodge River. Ellesmere Island.
TERRITORY	NUNAVUT
DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal - PARKSCAN
OWNER	Nunavut Ellesmere Island National Park Reserve
LATITUDE	81:21:00:N
LONGITUDE	070:40:34:W
UTM	19XDA E7185 N3254
SITE TYPE CLASS	undetermined
FEATURES	cache
RESEARCHER NAME	Sutherland, Patricia
DATE OBSERVED	1983//
BIBLIOGRAPHIC REF.	

REMARKS	ASC ARCHIVES Ms. 3114
SUPPLEMENTARY INFO.	ASC ARCHIVES Ms. 3142 Consists of 1 or more caches observed from the air. Location approximate.

<b>BORDEN</b>	<b>TiAw-1</b>
PERMIT NUMBER	NWT 83-540
PROJECT	Eureka Upland Archaeological Project
LOCATION	In a river valley on a tributary of the Dodge River, approx. halfway between the east coast (Beatrix Bay) and Lake Hazen. Ellesmere Island.
TERRITORY	NUNAVUT
DISTRICT	NORTH BAFFIN
MAP REFERENCE	120C 120D
JURISDICTION	Federal - PARKSCAN
OWNER	Nunavut Ellesmere Island National Park Reserve
LATITUDE	81:26:12:N
LONGITUDE	071:20:59:W
UTM	19XDA E6094 N4259
SITE TYPE CLASS	prehistoric ?
TYPE	campsite ?



FEATURES  
CULTURE  
OCCUPATION PERIOD  
RESEARCHER NAME  
DATE OBSERVED  
BIBLIOGRAPHIC REF.

tent ring  
Thule ?  
between A.D. 1100 and 1700 ?  
Sutherland, Patricia  
1983//

ASC ARCHIVES Ms. 3114  
ASC ARCHIVES Ms. 3142

REMARKS  
ring.

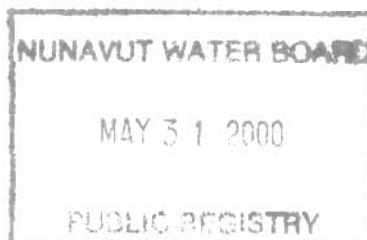
Consists of 1 possible prehistoric tent ring as well as 1 modern tent

SUPPLEMENTARY INFO.

Location approximate.

Environment  
CanadaEnvironnement  
Canada

Northern Division  
Environmental Protection Branch  
Prairie and Northern Region  
#301 - 5204 - 50<sup>th</sup> Ave  
Yellowknife, NT X1A 1E2  
Ph, (867) 669-4700



INTERNAL	
PC	SL
LA	
OM	
TA	
BS	
ED	
CEO	
BRD	

May 30, 2000

Our File: New

Gladys Joudrey  
Environmental Assessment Officer  
Nunavut Impact Review Board  
P.O. Box 2379  
Cambridge Bay, NT X0E 0C0

By Facsimile: (867) 983-2594

Dionne Filiatrault  
Technical Advisor  
Nunavut Water Board  
P.O. Box 119,  
Gjoa Haven, NT X0E 1J0

By Facsimile: (867) 360-6369

**Re: Cominco Ltd. Water Licence Application - NWB2ELL - Mineral Exploration - Ellesmere Island**

I have reviewed the above application on behalf of the Environmental Protection Branch, Environment Canada (EPB), and offer the following comments for your consideration.

- The proponent shall ensure that any fuel or wastes associated with the proposed project do not enter waters frequented by fish. All fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of and in such a manner that no fuel can enter any such water body.
- The contingency plan does not include notification to the Spill Line at 867-920-8130.

Please do not hesitate to contact me at (867) 669-4735 with any questions or comments regarding the foregoing.

Yours truly,

Anne Wilson  
Water Pollution Specialist

cc: Steve Harbicht (Head, Assessment &amp; Monitoring, EPB)





## Nunavut Territory Archaeological Site Record Form

### Project Information

Project \_\_\_\_\_

Reporter Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Permit Number: \_\_\_\_\_

Observation Date: \_\_\_\_\_

### Geographic Information

Field Number: \_\_\_\_\_

Borden Designation: \_\_\_\_\_

Upper Borden: \_\_\_\_\_

Lower Borden: \_\_\_\_\_

Number: \_\_\_\_\_

Site Location: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Region: Qikiqtani Kivalliq Kitikmeot

Land Owner: Inuit Owned Land Federal Crown Land

Map Reference: \_\_\_\_\_ UTM: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Elevation: \_\_\_\_\_ Air Photo Ref.: \_\_\_\_\_

### Site Information

Site Description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Culture(s): \_\_\_\_\_

Est. Date(s): \_\_\_\_\_

Site Type: \_\_\_\_\_

Site Size: \_\_\_\_\_

Condition: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Comments:

100